

R.K.M POWERGEN PVT. LTD.

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CIN No:U40101TN2004PTC054931

Ref : RKMPPPL/ENV/2016-17/...739

Dated: 28/05/2016

To,
The Director
Ministry of Environment Forest and Climate Change
Regional Office (WCZ), Ground Floor
East Wing, New Secretariat Building,
Civil Line, Nagpur-440001(Maharashtra)

Sub: Submission of six monthly Environmental Clearance Compliance and Project Status Report for period from **October 2015 to March 2016**

Ref: MOEF, New Delhi Environmental Clearance, F.No.J-13011/12/2008-IA.II (T)dt.26/08/2008 and Extension letter dated 25/02/2014.

Dear Sir,

With reference to above subject, we are enclosing herewith Project Status Report and six monthly compliance report of Environmental Clearance for period from **October 2015 to March 2016**.

We hope you will find the above six monthly compliance report up to your satisfaction. Your valuable guidance further in this regard shall be highly appreciated.

Kindly acknowledge the receipt.

Thanking you,

Your's faithfully

For **R.K. M POWERGEN PVT. LTD.**


S.N Pandey

Director

Encl: List of Annexure

CC to:

1. The Member Secretary Chhattisgarh Environment Conservation Board, Chhattisgarh Housing Board Colony, Kabir Nagar, Raipur – 492 099 (C.G.)
2. The Regional Officer, Chhattisgarh Environment Conservation Board, Vyaper Vihar, Near Pandit Dindayal Upadhyay Garden, Bilaspur – (C.G.)
3. The Director Zonal Office Central Pollution Control Board, 4th Floor, Sahkar Bhawan, North T.T. Nagar, Bhopal – 462003(MP)
4. Director – Thermal Projects Ministry of Environmental & Forests Paryavaran Bhawan, C.G.O. Complex, Lodi road, New Delhi – 110003.

STATUS OF RKMPPPL 4 X 360 MW THERMAL POWER PROJECT

Name of the Project : RKMPPPL THERMAL POWER PROJECT

Name of the Company : R.K.M POWERGEN PRIVATE LIMITED.

Capacity of the Plant : 1440 MW - 4 X 360 MW (Each Unit)

Location : Uechpinda Village, Janjgir Champa District, Chattisgarh State.


MOEF Clearance Letter : J-13011/12/2008-IA.II (T) Dated: 26.08.2008. & Amendment Letter No: J-13011/12/2008-IA.II (T) Dated: 12.11.2008. Extension dated 25.02.2014.

STATUS AS ON 31st March 2016

SL. NO.	DESCRIPTION		STATUS	
1	CLEARANCES		09-01-2008	NOC received from Archeological Department.
			30-01-2008	NOC received from Fisheries Department.
			20-02-2008	NOC received from District Industries and Trade center.
			21-02-2008	NOC received from Forest Department.
			05-09-2008	Revised NOC received from Airport Authority of India for chimney height clearance (277M)
			04-11-2008	NOC received from Central Ground Water Authority for use of ground water for construction.
			24-09-2009	NOC received from Geology & Mining Department.
			23-10-2009	NOC received from Tourism Department.
			08-03-2010	In principle approval received from South East Central Railways for feasibility report on MGR system.
			16-06-2010	In principle approval received from WRD for construction of Raw Water in take arrangement on Mahanadhi River.
			28-10-2010	Permission for laying underground pipeline along Minimata Bango canal received
			18-01-2010	NOC for laying underground pipeline along Mand diversion canals received
			09-09-2010	Permission received from PMGSY dept. for laying of underground pipeline under village roads
			30-05-2011	RTC received from SECL for rail connectivity from kharsia to site.
18-01-2012	Mega Power Provisional Certificate obtained on 18-01-2012.			
02-05-2012	DPR for railway siding from Kharsia station to site submitted to railways and approved.			
2	LAND	PURCHASED \ ALLOTTED	Purchased / Allotted About 843.49 Acres of Land purchased / allotted so far.	
		Private Land	In that 645.66 Acres are Private Land.	
		Government Land	Government land of around 103.76 acres allotted and registered.	
		Green Belt Development	94.07 acres of land allotted for green belt development.	
3	WATER		WRD	W.R.D. - Govt of Chhattisgarh has allotted 44.83 MCM per annum vide letter No.2557/F4-13/52 100 date 12.05.2008
4	COAL	COAL BLOCK	23-01-2008	Ministry of Coal allotted Fatehpur East Coal Block along with 4 other companies vide their Letter, No. 38011/1/2007-CA-I dated 22 nd January 2008.
			21-04-2008	A Joint Venture Company FECPL formed.
			05-09-2008	Geological data & certified copy of block boundary of Fatehpur East captive coal block purchased from CMPDIL, Ranchi.
			07-11-2010	Detailed exploration completed
			24-11-2010	Revised Form-I submitted to MOEF for issuing TOR on 19.04.2011, T OR approved on 03.01.2012. Public hearing completed on 10.01.2014. 1st EAC hearing completed on 27.03.2014 and recommended for Environmental clearance.
			25-08-2011	Mining plan Submitted & Approved on 27-04-2012.
		24-09-2014	Supreme court cancels 214 coal blocks including FECPL	
		COAL LINKAGE PHASE - I	29-07-2008	LOA received from SECL vide their letter no: SECL/BSP/S&M/COMML/ 360/RKMPPPL TPS (LOA)/2184 dated 29-07-2008.
		COAL LINKAGE PHASE - II	03-09-2013	FSA signed with SECL.
		5	POWER EVACUATION & SALE	
23-09-2013	FSA signed with SECL.550MW permanent basis and 500MW tapering basis.			
29-09-2006	Power Purchase Agreement signed with the Chhattisgarh State Electricity Board for 490 MW.			
22-05-2007	Implementation Agreement signed with Government of Chhattisgarh and Chhattisgarh State Electricity Board.			
09-10-2007	Power Transmission Agreement signed with Chhattisgarh State Electricity Board.			
28-07-2008	Amendment to the Implementation Agreement signed.			
08-05-2009	Power Purchase Agreement signed with PTC for sale of 700 MW contracted capacity of power (Phase II)			
24-02-2010	Transmission Agreement signed with PGCIL. Kothra Substation will be the delivery point.			
6	ENGINEERING		06-08-2012	TSA agreement signed
				Owners Engineers Fichtner Consulting Engineers India Pvt. Ltd.
7	MAJOR CONTRACTS	PROCUREMENT PHASE- I & II	18-07-2007	Agreement signed with MIPP International Limited for supply of equipments for Phase- I.
		CONSTRUCTION PHASE- I & II	20-02-2009	Agreement signed with MIPP International Limited for supply of equipments for Phase- II.
		SERVICES PHASE - I & II	03-09-2007	Agreement signed with GM Technical services for Mechanical, Electrical and C&I erection work for Phase- I
			11-01-2010	Agreement signed with GM Technical services for Mechanical, Electrical and C&I erection work for Phase- II
			03-09-2007	An Order placed on MJC Property Developers (India) Private Limited for civil & structural construction work Phase - I
			11-01-2010	An Order placed on MJC Property Developers (India) Private Limited for civil & structural construction work Phase - II

			03-09-2007	Agreement signed with GM Technical services for services like Transportation & Insurance.
				Project Cost Rs.2,638.35 Crores
8	FINANCING	PHASE - I	02-01-2009	Financial closure achieved
			31-07-2015	Loan amount of Rs. 2,368.43 Crores drawn.
				Project Cost Rs.9,146.16 Crores
		PHASE - II	07-06-2010	Financial closure achieved.
			31-12-2013	Loan amount of Rs. 7,891.24 Crores drawn.
	TOTAL EXPENSES	31-12-2013	Total Expenses incurred till date on the project is Rs.10,226.82 crores.	
9	PROGRESS	PROCUREMENT	UNIT - I	BTG & BOP Equipments 21,160 MT Reached site.
			UNIT - II	BTG & BOP Equipments 21,937 MT Reached site.
			UNIT - III	BTG & BOP Equipments 20,064 MT Reached site.
			UNIT - IV	BTG & BOP Equipments 20,513 MT Reached site.
			Turbine Hall & Turbine Deck	TG Hall - I All civil works completed. TG Hall - II All civil works completed. TG Hall - III Civil works completed in AB & BC bays and under progress in CD bay at 40.02m lvl. TG Hall - IV Civil works completed in AB & BC bays and under progress in CD bay at 31.90m lvl.
		BFP	Unit - I, II, III and IV Boiler feed pump foundations and erection completed.	
		Coal Mill	Unit - I Coal Mill foundation work completed. Mills erection and commissioning completed. Hoist erection completed. Unit - II Coal Mill foundation work completed. Mills erection and commissioning completed. Hoist erection completed. Unit - III Coal Mill foundation work completed. Mills erection under progress. Hoist erection completed. Unit - IV Coal Mill foundation 3 nos completed. Mills erection under progress. Hoist erection completed.	
		Central Control Building	Central Control Building - I All civil works completed. DCS commissioned. Central Control Building - II All civil structures completed and finishing work under progress. Panels erection under progress.	
		Chimney	Chimney - I Shell concreting work 270 Meter height completed. Flue erection completed. Chimney - II Shell concreting work 270 Meter height completed. Flue erection completed.	
		ESP	ESP - I Civil work completed. ESP - II Civil work completed. ESP - III Civil work completed. ESP - IV Civil work completed and grade slab under progress.	
		START OF CIVIL WORKS	Cooling Tower	Cooling Tower - I Civil work Completed. Cooling Tower - II Civil work under progress.
		Switchyard	GIS civil work completed. Erection and commissioning completed.	
		Fuel Oil System	All civil works completed and system commissioned.	
		Coal Handling System	Civil works completed for Junction towers (2, 4 & 5), Conveyors (BCN 1, 2, 3, 5, 6, 7, 8 & 9), Stacker Reclaimer foundations, Crusher house etc. Civil works under progress for Junction towers (1 & 3), Wagon tippler and Coal shed.	
		Transformer	Transformers foundation completed for units 1, 2, 3 and under progress for unit 4	
		Stores	Stores Building civil structures completed. EOT Crane erection work completed.	
		Ash Handling System	Civil works completed for BAHS (1 & 2), FAHS (1, 2 & 3), BA slurry PH - I, FA slurry PH, FA silos, Ash water PH - I, Ash trenches and pedestals (for unit-1), Ash pond for unit-1, etc. Civil works under progress for for BAHS (3 & 4), FAHS 4, Ash trenches and pedestals (for unit-1), Ash water PH - II, Ash pond for unit-2, etc	
		Water Treatment Plant	All civil works completed and system commissioned.	
		400 kva Transmission Line	All civil works completed.	
		River Water Intake System	All civil structures completed and system commissioned.	
		Boiler	1. Boiler - I Hydro test (drainable and non-drainable) completed. Chemical cleaning completed. GD test completed. Light-up with oil completed. Steam blowing completed. Successful running for continuous period of 72 hours completed for COD. 2. Boiler - II Hydro test (drainable and non-drainable) completed. Chemical cleaning completed. GD test completed. Light-up with oil completed. Steam blowing completed. Successful running for continuous period of 72 hours completed for COD. 3. Boiler - III Hydro test (drainable and non-drainable) completed. Ready for light up. 4. Boiler - IV Hydro test (drainable and non-drainable) completed.	

		INSTALLATION OF MAJOR EQUIPMENT	ESP	ESP - I Erection completed and commissioned. ESP - II Erection completed and commissioned. ESP - III Erection completed and commissioning under progress. ESP - IV Erection under progress.
			TG	TG - I TG Box up completed. Turning gear commissioned. Turbine rolling completed. Governing test and over speed check completed. Unit is synchronised with coal. TG - II TG Box up completed. Turning gear commissioned. Turbine rolling completed. Governing test and over speed check completed. Unit is synchronised with coal. TG Hall - III LP & HIP temporary box-up completed and balance work under progress. Generator erection completed. TG Hall - IV Turbine LP bottom casing, Inner and Outer casing erection completed. Generator erection completed.
			Condenser	Condenser erection completed for units 1, 2, 3 and under progress for unit 4
			Stacker & Reclaimer	Stacker & Reclaimer I & II erection completed.
			Cooling Water Piping	CW Piping for units 1, 2 & 3 completed. CW Piping for unit 4 completed (except condenser joining portion).
			Cross Country Piping	Cross country piping erection completed and water received at site.
			Fuel Oil System	FOS system commissioned.
			Transformer	Transformers erection completed for units 1, 2, 3 and under progress for unit 4
			400 kva Transmission Line	Double circuit and LILLO line completed and charged. For Multi circuit line, towers erected, stringing completed, Charging permission obtained from CEA.
10	SCHEDULE OF PROJECT COMPLETION		COD	Unit I - Nov 2015
			Unit II - Feb 2016	
			Unit III - Sep 2016	
			Unit IV - Oct 2016	



**COMPLIANCE
TO
ENVIRONMENTAL
CLEARANCE CONDITIONS
OF
R.K. M POWERGEN PVT. LTD.**

Period: October 2015 to March 2016



Status of Compliance for the Period April, 2014 - September 2014, MoEF & CC Clearance Letter: J-13011/12/2008-IA.II (T) Dated: 26.08.2008. & Amendment Letter No: J-13011/12/2008-IA.II (T) Dated: 12.11.2008. Extension dated 25.02.2014.

S.N	TERMS & CONDITIONS	COMPLIANCE STATUS
i	No additional land in excess of 900 acres shall be acquired for any activity / facility of this project	Total land required 900 acres. 843.49 acres purchased / allotted so far. Shall be ensured.
ii	The confirmed coal linkage / captive coal block to meet the requirement for requisite quantity of coal for the ultimate capacity shall be obtained before commissioning the project. Copy of the balance coal linkage shall be submitted to the Ministry.	FSA signed for Phase I and Phase II (900 mw permanent basis and 500 MW tapering basis).
iii	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.4% and 42% respectively at any given time.	Shall be ensured. We are using the CIL Coal only
iv	Two bi-flue stacks of 275 m height each shall be provided with continuous online monitoring equipments for SO _x , NO _x and Particulate. Exit velocity of flue gases shall not be less than 25 m / sec	Two Bi-flue stack of 275 meter height is constructed for Unit-I,II,III&IV On line Opacity meter for PM and gas analyzers for SO ₂ , NO _x has been installed. Website link, ID other details submitted to CECB Raipur dated 09.05.2016. Exit velocity of flue gases during the operation phase should be maintained 25 m/sec.
v	High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/ Nm ³	ESP with efficiency of 99.9% has been installed in both the units (Unit-I&II). ESP of unit-III Erection nearing completion and ESP of unit-IV Erection under progress. We ensure particulate emission not exceeding 50 mg/Nm ³ . Photograph is enclosed as Annexure- I
vi	Space provision shall be kept for retrofitting of FGD, if required at a later date	Noted Space has been provided for FGD if required in future.
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	Bag filters have been installed at coal transfer point and ash handling points. Photograph is enclosed as Annexure-II Water spray system have installed in coal handling & Coal yard and Moveable water tanker using to control the fugitive dust emission on road
viii	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash utilization shall be ensured from 5 th	Being Complied Fly Ash Silo construction work completed for all

	year onwards. Utilized fly ash shall be disposed off in the ash pond in the form of High Concentration Slurry and the bottom ash in conventional slurry mode.	units. We have signed MOUs for Ash Utilization with M/s Ambuja Cement, Lafarge Cement Imami Cement and Shree cement Summery is enclosed as Annexure-III
ix	Ash pond shall be lined with impervious lining. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached	Ash pond for unit-1 is lined with impervious lining and construction of ash pond for unit-II is under progress. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached
x	Closed cycle cooling system with cooling towers shall be provided. COC of at least 4 shall be adopted and the effluents shall be treated as per the prescribed norms	Cooling tower for units-I & II commissioned and unit-III & IV civil under progress. Effluents shall be treated as per the CPCB/ CECB prescribed norms, Effluent result enclosed as Annexure-IV
xi	The treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon. Arrangements shall be made that effluents and storm water do not get mixed	Complied. Treatment Effluent within the prescribed standard and utilized for dust suppression, slurry pump house, Floor washing, etc. Storm water drainage into water reservoir to prevent any mixing. Photograph is enclosed as Annexure-V
xii	A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt /plantation	Complied. Sewage Treatment Plant (STP) installed within the plant premises and treated water being utilizing for plantation and green belt development. Photograph is enclosed as Annexure- VI
xiii	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	Complied. Roof top rain water harvesting proposed scheme was submitted to CECB vide letter no. RKMPP/CECB/2008 dated 17-09-08. Submitted copy is enclosed as Annexure-VII We have already designed Strom Water collection structure of plant premises and Strom Water drained into water reservoir. Residential colony rain water harvesting under progress.
xiv	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	Complied Fire Hydrant system has been installed in Coal yard and within the plant premises to control the fires. Detail Scheme was given in EIA report and submitted to Regional Office of the Ministry

	be submitted to the Ministry as well as to the Regional Office of the Ministry at Nagpur.	MoEF & CC, Bhopal (MP), CECB, Raipur (CG)
xv	Storage facilities for auxiliary liquid fuel such as LDO and / 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. Mock drills shall be conducted regularly and based on the same, modifications required, if any shall be incorporated in the DMP. Sulphur content in the liquid fuel will not exceed 0.5%.	Complied. LDO & HFO Layout approved from CCOE. Disaster Management Plan (for Construction, Commissioning & Operation) provided in EIA Report Chapter No-7. Mock Drill is being conducted on regular interval; copy is enclosed as Annexure- VIII . We ensure that Sulphur content in the liquid fuel will not exceed 0.5%.
xvi	Regular monitoring of ground water in and around the ash pond area shall be carried out, records maintained and six monthly reports shall be furnished to the Regional Office of this Ministry.	Shall be ensured. Test report enclosed as Annexure-IX
xvii	A green belt of adequate width and density shall be developed around the plant periphery covering an area of at least 300 acres preferably with local species	Complying. Year wise plantation details along with photographs enclosed as Annexure-X
xviii	Dense plantation around Bandhapali Tank shall be done. Details of the same shall be submitted to the Ministry	Complied Plantation report enclosed as Annexure-XI
xix	The PAP shall be rehabilitated / compensation in accordance with the norms of the State Government. Details of R&R plan with compensation package shall be submitted to the Ministry / SPCB / regional Office of the Ministry	Complied R & R Plan submitted to State Govt. vide letter no.RKMPPL/PROJ/NOC/2007dated,14.11.2007, submission letter is enclosed as Annexure-XII
xx	Adequate funds shall be allocated for undertaking CSR activities and in any case it shall not be less than Rs 1.0 crore per annum. Details of activities shall also be submitted to the Regional Office of the Ministry, SPCB and the Ministry	Being followed. As on March 2015 Rs 11.65 Crores has been spent. Annually a separate budget earmarked for CSR activities. The Year wise CSR report is enclosed as Annexure -XIII
xxi	First aid and sanitation arrangements shall be made for the drivers and other contract	Complied. Primary Health Centre set up within the plant premises and sanitation arrangements made for

	workers during construction phase.	the drivers and other contract workers
xxii	Leq of Noise levels emanating from turbines shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs / ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy / less noisy areas.	Necessary action has been taken to maintain noise level within 75dB (A). The working personals provided with appropriate personal protective equipment and periodic audiometric check up is being carried out and records are maintained during the operation phase. Noise level monitoring report enclosed as Annexure- XIV
xxiii	Regular monitoring of ground level concentration of SO ₂ , NO _x , 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. 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.	We have installed the four CAAQMS with consultation of Regional Office CECB, Bilaspur and server link, ID and password to CECB, Raipur in provided vide letter no. RKMPP/2016-16/713 dated 60. 05. 2016, copy letter is enclosed as Annexure- XV . Periodic reports will be submitted to the Regional Office of this Ministry during the operation phase.
xxi	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 .	Complied. Advertised in Central Chronicle, Raipur (English) & Dially Deshbandhu (Hindi) on dated 30-08-2008.
xxii	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards	Complied. We have established separate environmental monitoring cell with well qualified staff to carry out regular surveillance for implementation of stipulated environmental safeguards. enclosed as Annexure- XVI

xxiii	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry / Regional Office / CPCB / SPCB	Complied. Last report submitted vide letter no. RKMPPPL/MOEF/200815 dated.20/08/2015
xxiv	Regional Office of the Ministry of Environment & Forests located at Nagpur 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	Complied. A complete set of documents including EIA/EMP along with the additional information submitted vide letter no. RKMPPPL/MOEF/10-01-2009.
xxv	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.	Noted Separate funds allocated for environmental protection measures. We ensure that the funds earmarked for the environment protection measures will not be diverted for other purposes.
xxvi	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.	Complied. Phase - I Financial closure achieved on 02-01-2009. & Phase - I Financial closure achieved on 07-06-2010.
xxvii	Full cooperation shall be extended to the Scientists/Officers from the Ministry/ Regional Office of the Ministry at Nagpur/ the CPCB / the SPCB who would be monitoring the compliance of environmental status.	Noted, Full co-operation shall be extended to mentioned authority always.
Amendment Letter No: J-13011/12/2008-IA.II (T) Extension dated 25.02.2014.		
xxviii	Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of	Complied. Solar heater have been installed at roof top of

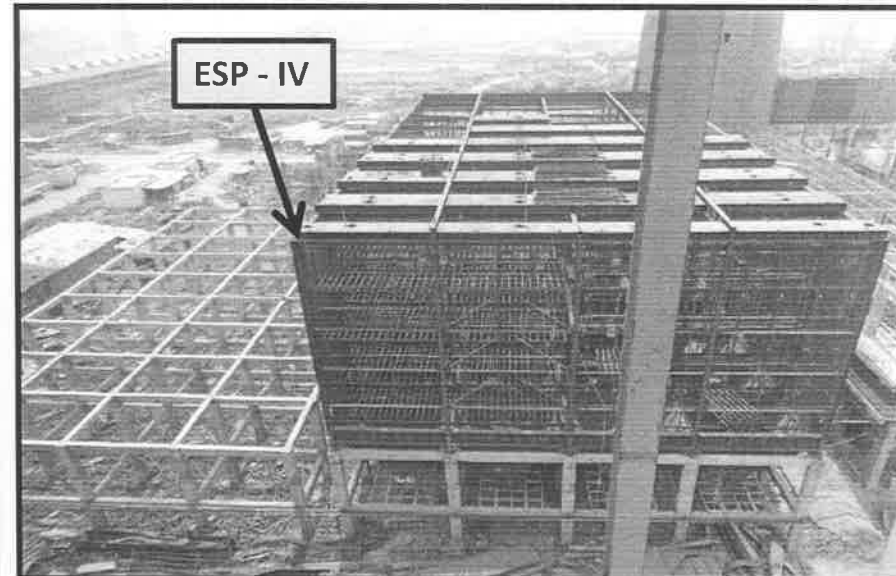
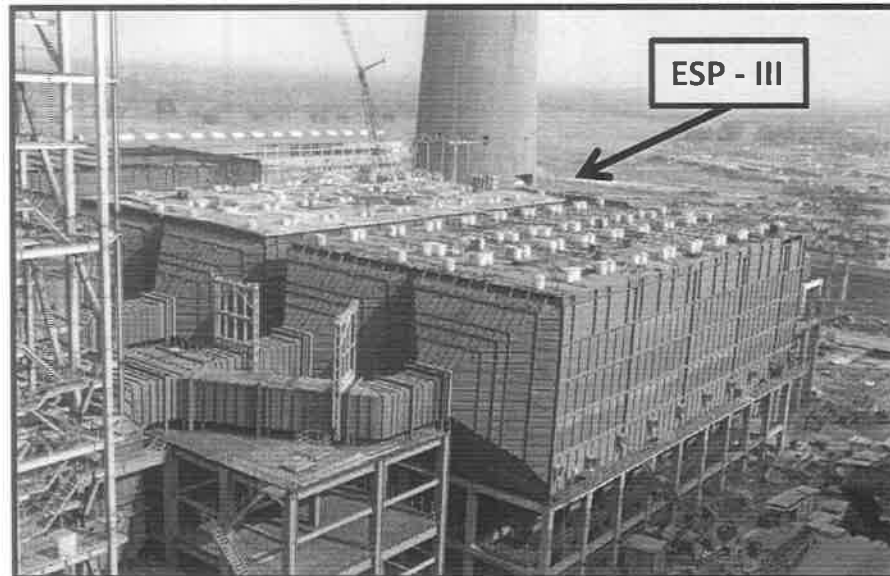
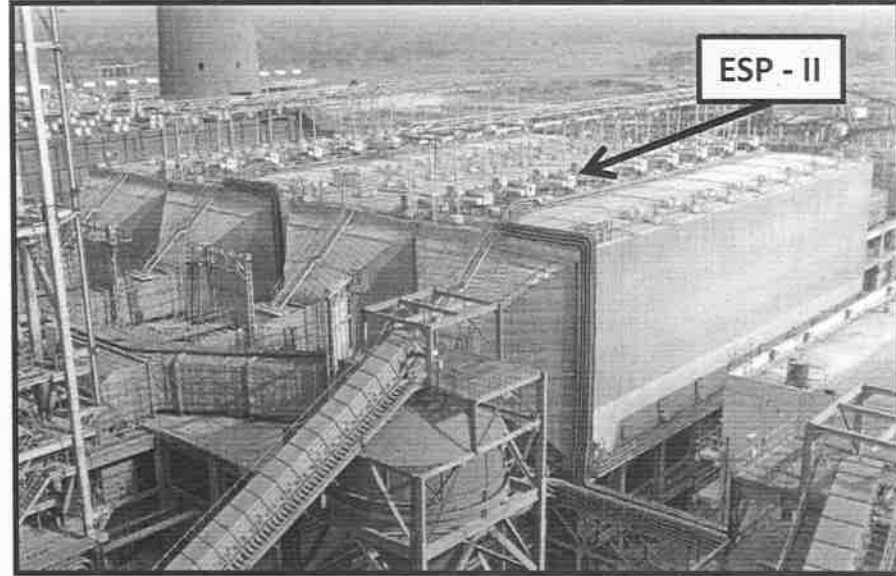
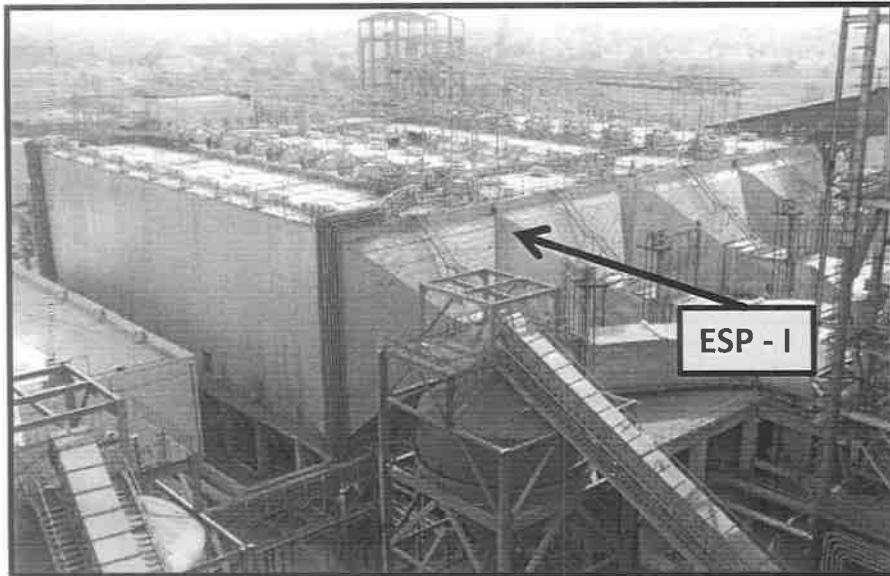
	implementation shall be submitted periodically to the Regional Office of the Ministry.	hostel blocks and commissioned.
xxix	A long term study on radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place	Note and will be complied during the operation phase.
xxx	Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack shall be monitored on periodic basis.	We ensure that during the operation phase exit velocity of flue gases should be maintained 22 m/sec at the time of operation phase.
xxxi	Fugitive emissions shall be controlled to prevent impact on agricultural and non – agricultural land.	Truck/tractor mounted water sprinkler has been deployed to control the Fugitive emissions.
xxxii	No ground water shall be extracted for use in operation of the power plant even in lean season.	Noted We have agreement with WRD department dated 04.12.2015 to withdraw the water from Mahanadi river for use in operation of the power plant. Copy of water agreement enclosed as Annexure-XVII
xxxiii	Source sustainability study of water requirement shall be carried out by an institute of repute. The study shall also specify the source of water for meeting the requirement during lean season. The report shall be submitted to the Regional Office of the Ministry within six months.	Noted Source sustainability study of water requirement shall be carried out by an institute of repute during the operation phase
xxxiv	Hydro geological study of the area shall be reviewed annually and report submitted to the Ministry. 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.	Hydro geological study report was submitted to CGWB& CECB13.11.2014, Raipur
xxxv	Minimum required environmental flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel/Rivers (as applicable) even in lean season.	Noted

xxxvi	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 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 and implementation done in close co-ordination with the State Pollution Control Board.	Shall be ensure
xxxvii	Green Belt consisting of 3 tiers plantations of native species around plant and at least 100m width shall be raised. Wherever 100m width is not feasible a 50m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not be less than 2500 per hec with survival rate not less than 75%. The guidelines of Indian Road Congress (IRC) may be followed.	Noted Complying
xxxviii	Three tier green belts shall be developed all around Ash Pond over and above the Green Belt around the plant boundary.	Almost completed around the plant boundary, in progress around the Ash Pond & Outside of plant premises.
xxxix	A common Green Endowment Fund shall be created and the interest earned out of it shall be used for the development and management of green cover of the area.	Noted
xl	The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	Complied Potable Drinking Water supply provide to the nearby villages and schools.
xli	An amount of Rs. 24 Crores shall be earmarked as one time capital cost for CSR programme; subsequently a recurring expenditure of Rs. 4.8 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within one	This condition has been deleted by the MoEF Letter No: J-13011/12/2008-IA.II (T) dated 23 rd September, 2014

	month along with road map for implementation.	
xlii	CSR scheme should address Public Hearing issues and shall be undertaken based on need based assessment in and around the villages within 5.0 km of the site and in constant consultation with the village Panchayat and the District Administration. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. Vocational training programme for possible self-employment and jobs shall be imparted to identify villagers free of cost.	Noted
xliii	It shall be ensured that inbuilt monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time	Shall be ensured
xliv	An Environmental cell shall be created at the project site itself and shall be headed by an officer of the company of appropriate seniority and qualification. It shall be ensured that the head of the cell shall directly report to the Head of the Organization	Noted Environmental cell was created.
xlv	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.	Monitoring report is submitted to CECB, Head Office Raipur and RO Office Bilaspur vide letter no.599/RKM/ENV/2015-16 dated 16.12.2015. Copy is enclosed as Annexure-IX

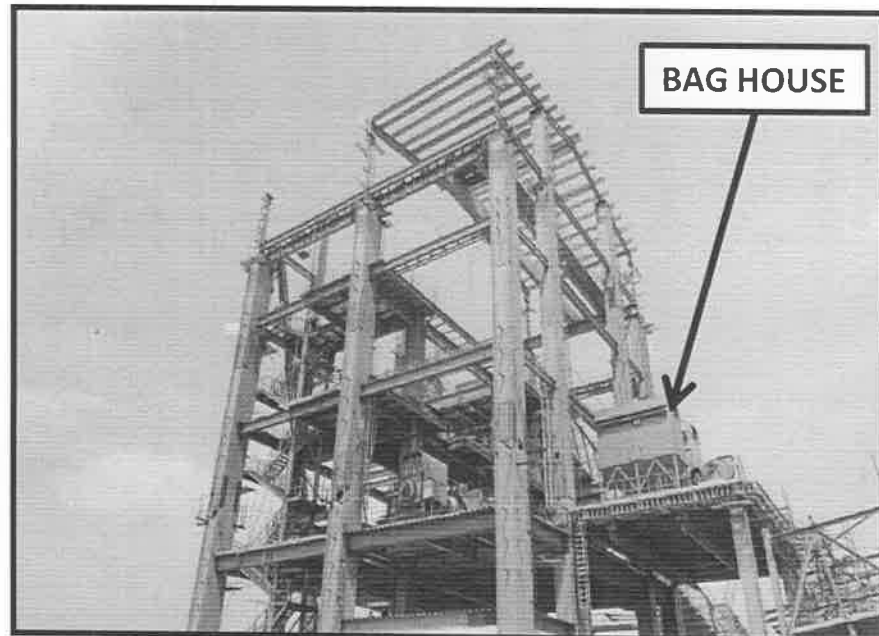
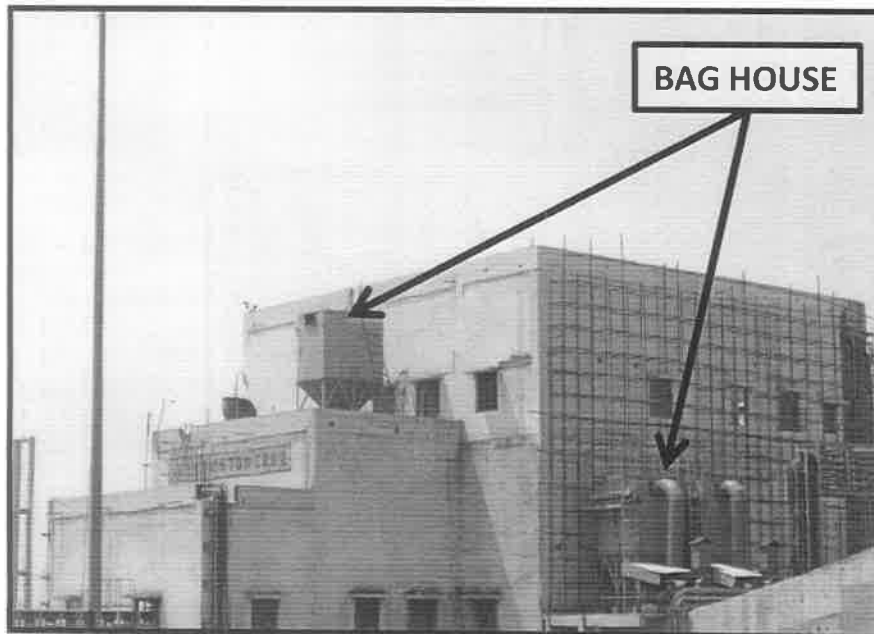
xlvi	Monitoring of surface water quantity and quality shall also be regularly conducted and records maintained the monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken	Complied Surface water quantity Analysis report enclosed as Annexure- IX .
xlvii	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 environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e- mail.	The Environment Statement for each financial year ending 31 st March in (Form – V) submitted to CECB Raipur.
xlviii	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	Complied

ELECTROSTATIC PRECIPITATOR



Sanyal

DUST EXTRACTION SYSTEMS – BAG HOUSE



Sanyal

FLY ASH SUPPLY AGREEMENT

S.no	Organisation	Utilisation	Agreement Years	Quantity (Mt/Day)
1	Shree Cement	For cement industry	5	1000
2	Ambuja Cement	For cement industry	5	500
3	Lafarge Cement	For cement industry	1	2000
4	Emami Cement	For cement industry		1200
Total agreed quantity				4700

Sanjay

Sanjay



O/C

R.K.M POWERGEN PVT. LTD.

No 14, Dt. Giriappa Road, T.Nagar, Chennai - 600 017 INDIA

Tel: 1 91-44-66291000 Fax: 044-28158243 / 66291100 Email: rkmpowergen@gmail.com, rkm@rkmpowergen.in
CIN No:U40101TN2004PTC054931

Ref: RKM/ENV/2016-17 696

Date: 21/04/2016

To,

The Regional Officer,
Chhattisgarh Environment Conservation Board,
Vyapar Vihar Near,
Pandit Deendayal Upadhyay Park,
Bilaspur (C. G.)

Sub: ETP/STP Water Analysis Report for month of March 2016

Dear Sir,

With reference above cited subject, we are submitting herewith the ETP/STP Water Analysis Report for the month of March 2016, with respect to our R.K.M Powergen Pvt. Ltd., (4x360MW)

This is for your information and record please.

Thanking you,

Yours faithfully,
For R.K.M Powergen Pvt. Ltd.

S.N. Pandey
22/4/16
S.N. Pandey
Director



Encl: ETP/STP Water Analysis Report for the month of March 2016

R. K. M POWERGEN PVT. LTD.
4X360 MW THERMAL POWER PLANT , UCCHPINDA

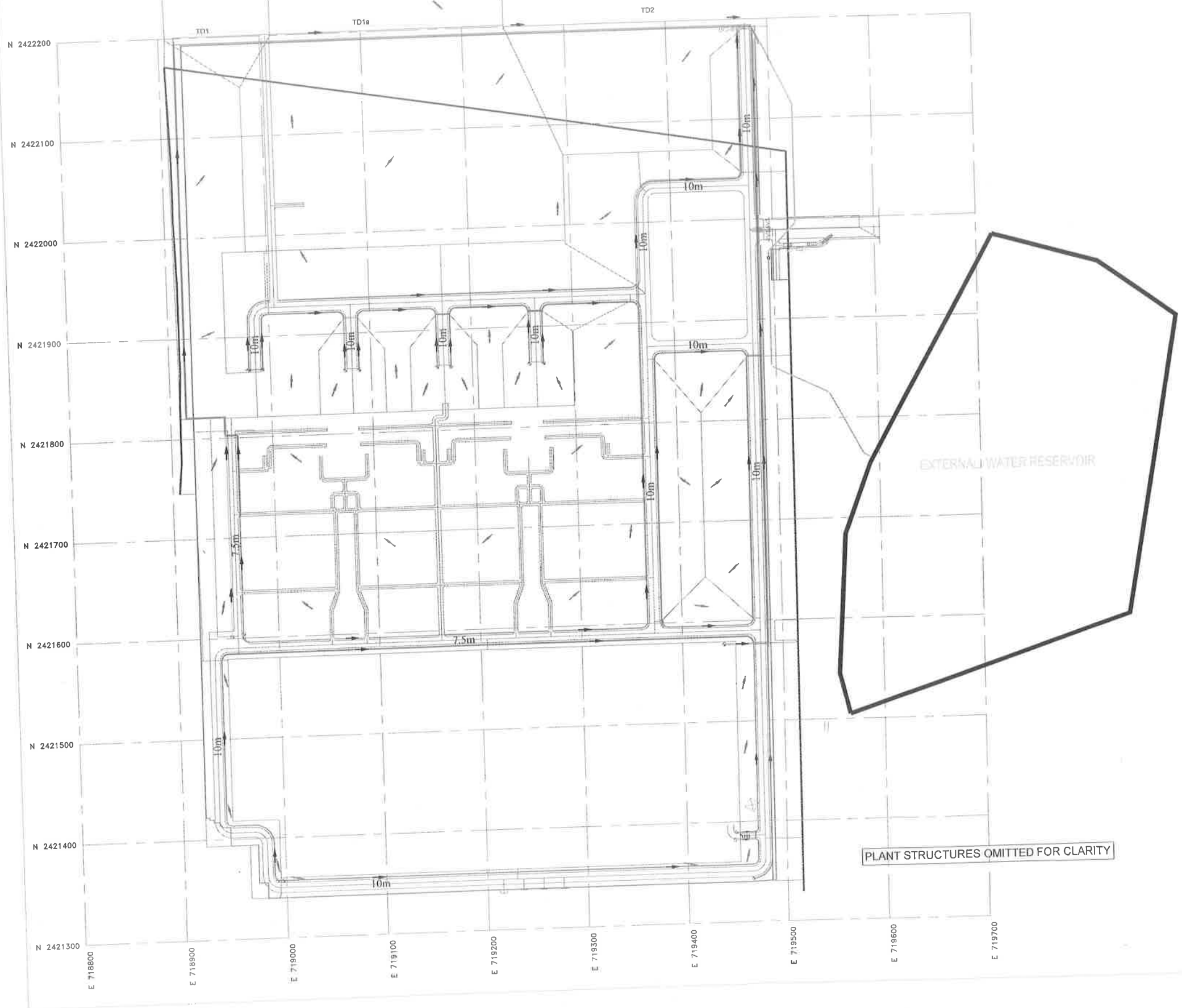
ETP Water Analysis Report Month Of December-2015 to March -2016

S.N.	Parameter	Limit as per CECB	Dec-15		Jan-16		Feb-16		Mar-16	
			Date Of Analysis		Date Of Analysis		Date Of Analysis		Date Of Analysis	
			25.12.2015		31.01.2016		09.02.2016		30.03.2016	
			Result		Result		Result		Result	
			Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
1	pH	5.5-9.0	7.67	7.48	7.75	7.44	7.64	7.46	7.83	7.5
2	Suspended Solid (SS)	100.00mg/L	8.0	7.0	11.0	8.0	11.0	9.0	14.0	8.0
3	Biochemical Oxygen Demand (BOD) at 270C	30.0mg/L	31.0	8.0	12.0	9.0	16.0	8.0	13.0	7.0
4	Chemical Oxygen Demond (COD)	250.0mg/L	54.0	46.0	58.0	42.0	52.0	44.0	54.0	41.0
5	Oil & Grease	10.0mg/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

STP Water Analysis Report Month Of December-2015 to March -2016

S.N.	Parameter	Month of Analysis	Dec-15	Jan-16	Feb-16	Mar-16
		Date Of Analysis	12.12.15	31.01.16	18.02.16	30.03.16
		Limit as per CECB	Result	Result	Result	Result
Outlet	Outlet		Outlet	Outlet		
1	pH	5.5-9.0	7.32	7.68	7.6	7.41
2	Suspended Solid (SS)	100.0mg/L	8.0	9.0	8.0	10.0
3	Biochemical Oxygen Demand (BOD) at 270C	30.0mg/L	8.0	8.0	7.0	9.0
4	Chemical Oxygen Demond (COD)	250.0mg/L	42.0	44.0	42.0	46.3
5	Oil & Grease	10.0mg/L	BDL	BDL	BDL	BDL

Sanyal



Annexure - V

R.K.M. POWERGEN PVT. LTD. 4 x 360 MW UCCUPINDA THERMAL POWER PLANT CHHATHISGARH, INDIA.	
LAYOUT OF STORM WATER DRAIN	

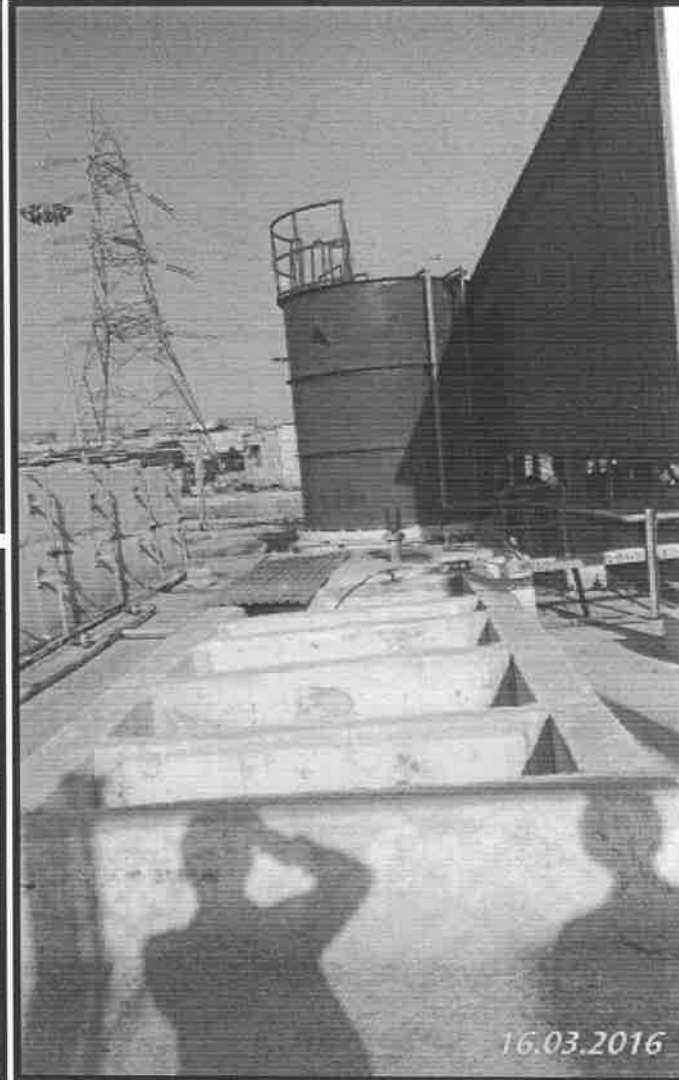
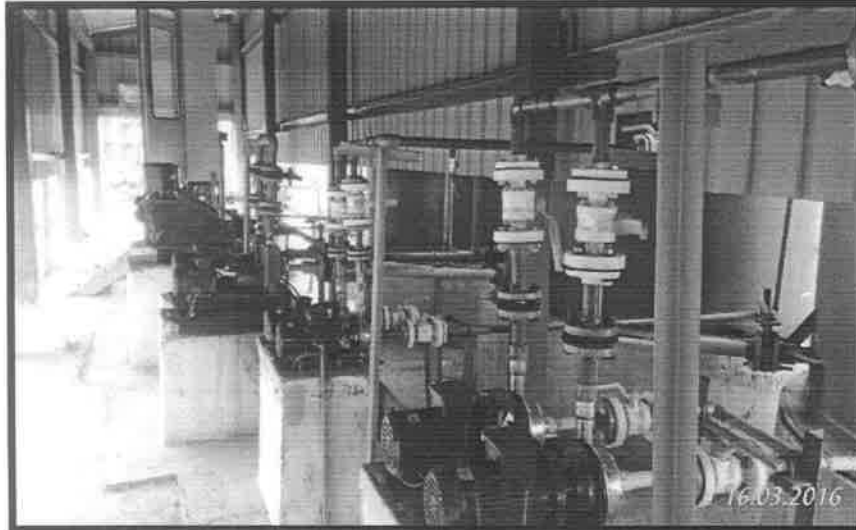
Sanjay

SEWAGE TREATMENT PLANT



Sanyar

SEWAGE TREATMENT PLANT - Cont...



Sanjay

Annexure - VII

R.K.M POWERGEN PRIVATE LIMITED

14/21, Haddows Road, Nungambakkam, Chennai - 600 006, INDIA.
Tel : 91-44-28228141 / 28287676 Fax : 044-28228143 E-mail : rkmpowergen@gmail.com

RKMPPL/MOEF/281008
28th October 2008

Director
Thermal Projects
Ministry of Environmental & Forests,
Paryavaran Bhawan, CGO Complex,
Lodi Road, New delhi-110003.

Dear Sir,

Sub : 4x350 MW Thermal Power Project at Uchpinda, Tehsil Dabra, District Janjgir-
Champa, Chhattisgarh.

Ministry of Environment and Forest has accorded Environment clearance to our Project vide
letter No J-13011/12/2008-JA.II(T) dated 26th August 2008. *and 12th Nov 2008*
As directed in the letter, we herewith submit rain water harvesting scheme for your kind notice.
The same has also been circulated among the Hon'ble Expert Appraisal Committee Members in
the meeting held on 14th October 2008 in Fazal Auditorium, New Delhi.

Thanking you

Yours faithfully
for R.K.M Powergen Private Limited


Authorised Signatory

RECEIVED
Min. of Env. & Forests
CGO Complex,
Lodi Road, New Delhi-110003

Encl:
The Rain Water Harvesting Scheme.

Registered Office : 16, First Canal Cross Road, Gandhi Nagar, Adyar, Chennai - 600 020.
Phone : 044-2440 4550 / 51 Fax : 044-2440 4552,
Raipur Office : 147, Gitanjali Nagar, Avanti Vihar, Sector - 1, Raipur - 492 004 (CG)
E-mail : rkmpowergen@gmail.com

Rain Water Harvesting Scheme

5

Month	Monthly Pre Project Runoff in CUM	Monthly Post Project Runoff in CUM	Monthly Run off after rain water harvesting (Roof top collection + Storage Pond) in CUM
January	9291.44	18123.69	7433.35
February	6194.29	12082.46	4129.64
March	14301.52	27896.27	7627.69
April	34159.69	66631.22	15941.63
May	6740.85	13148.56	2696.41
June	62944.92	122779.13	46975.98
July	429865.51	838487.26	475366.38
August	362365.97	706823.97	421818.48
September	109037.72	212686.85	129333.69
October	1548.57	3020.62	1238.89
November	3461.52	6751.96	2769.29
December	7469.59	14570.03	5975.83
Total	1047381.57	2043002.01	1121307.27

For the Project Area :

Unit : cu. m/annum

Pre-Project Runoff : 10,47,382

Post-Project Runoff : 20,43,002

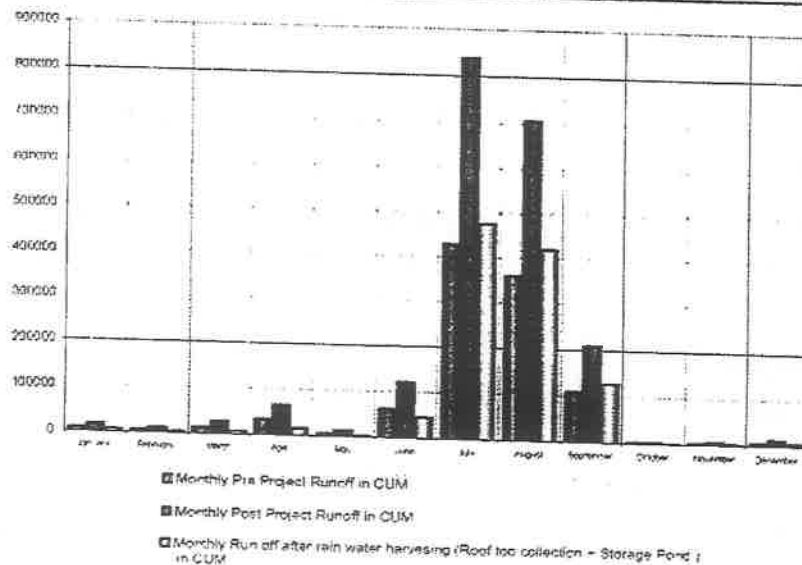
**Proposed Roof Top Colctn. : 1,38,970
(@ 380 KLD)**

**Proposed Storage in Pond : 7,17,967
(@ 1967 KLD)**

Run-off after RWH : 11,21,307

Water realisation due to RWH measures is 2347 KLD (380 + 1967 KLD), at minimum.

As the Pre-project Runoff is maintained, there will not be any impact to the natural drainage system due to the Project.



Rain Water Harvesting Scheme

4

Month	No. of Rainy Days	Rainfall, mm	Harvestable Water, m ³
January	2	10.2	1232.82
February	1	6.8	821.88
March	2	15.7	1897.57
April	4	37.5	4532.42
May	2	7.4	894.40
June	7	69.1	8351.74
July	15	471.9	57036.00
August	12	397.8	48079.94
September	9	119.7	14467.49
October	1	1.7	205.47
November	2	3.8	459.29
December	2	8.2	991.09
Total	59	1149.8	138970.12

Two sumps of 20000 cum are proposed to store the Roof Top Collection.

Rain Water Harvesting Scheme

Surface Runoffs during Pre-Project and during Post-Project have been worked out for the Project Area.

Pre Project Runoff				Post Project Runoff			
Location	Area (sq m)	Runoff Coefficient		Location	Area (sq m)	Runoff Coefficient	
Total Area	3643700	0.25	910925.00	Paved area	83094	0.85	70629.9
				Green bell area	1214600	0.25	303650
				Roof top area	134294	0.90	120864.6
				Vacant Area	997112	0.25	249278
				Ash Pond	1214600	0.85	1032410
				Total	3643700		1776832.5
Total Pre Project Runoff	CUM	1047381.57		Total Post Project Runoff	CUM		2043002.01
MONTH	RAINFALL (mm)	NO. OF RAINY DAYS	TOTAL PRE PROJECT RUNOFF IN CUM	MONTH	RAINFALL (mm)	NO. OF RAINY DAYS	TOTAL POST PROJECT RUNOFF IN CUM
January	10.2	2	9291.44	January	10.2	2	18123.69
February	6.8	1	9194.29	February	6.8	1	12082.46
March	15.7	2	14301.52	March	15.7	2	27696.27
April	37.5	4	34159.69	April	37.5	4	66631.22
May	7.4	2	6740.85	May	7.4	2	13148.56
June	69.1	7	62944.92	June	69.1	7	122779.13
July	471.9	15	429865.51	July	471.9	15	838487.26
August	397.8	12	362365.97	August	397.8	12	706823.97
September	119.7	9	109037.72	September	119.7	9	212686.85
October	1.7	1	1548.57	October	1.7	1	3020.62
November	3.8	2	3461.52	November	3.8	2	6751.96
December	8.2	2	7469.59	December	8.2	2	14570.03
TOTAL	1149.8	59	1047381.57	TOTAL	1149.8	59	2043002.01

Rain Water Harvesting Scheme

**Normal Rainfall (50 Years average) of the Region
(Raigarh Observatory) : 1149.8 mm**

Rainfall Intensity (considered for Storm Water Drain calculation) : 47 mm/hr.

R.K.M POWERGEN PRIVATE LIMITED

14/21, Haddows Road, Nungambakkam, Chennai - 600 006, INDIA.
Tel : 91-44-28228141 / 28287676 Fax : 044-28228143 E-mail : rkmpowergen@gmail.com

RKMPPL/MOEF/281008
28th October 2008

Director
Thermal Projects
Ministry of Environmental & Forests,
Paryavaran Bhawan, CGO Complex,
Lodi Road, New delhi-110003.

Dear Sir,

Sub : 4x350 MW Thermal Power Project at Uchpinda, Tehsil Dabra, District Janjgir-
Champa, Chhattisgarh.

Ministry of Environment and Forest has accorded Environment clearance to our Project vide letter No J-13011/12/2008-IA.II(T) dated 26th August 2008.

As directed in the letter, we herewith submit rain water harvesting scheme for your kind notice. The same has also been circulated among the Hon'ble Expert Appraisal Committee Members in the meeting held on 14th October 2008 in Fazal Auditorium, New Delhi.

Thanking you

Yours faithfully
for **R.K.M Powergen Private Limited**



Authorised Signatory

Encl:
The Rain Water Harvesting Scheme.

Registered Office : 16, First Canal Cross Road, Gandhi Nagar, Adyar, Chennai - 600 020.
Phone : 044-2440 4550 / 51 Fax : 044-2440 4552,
Raipur Office : 147, Gitanjali Nagar, Avanti Vihar, Sector - 1, Raipur - 492 004 (CG)
Tel : 91-771-4281 012, Fax : 0771-4281 013 E-mail : rkmraipur@gmail.com

EMERGENCY MOCK DRILL

Vill.-Uchpinda, Tehsil-Dabhra, Dist.- Janjgir-Champa, C.G.

Name	RKM Powergen Pvt. Ltd.
Location	Junction Tower # 4
Date & Time of Mock drill	09.03.16 at 11:30am
Type of Mock Drill / Emergency Drill	Emergency drill
Drill Coordinator	Mr. Ashok Singh Yadav

Task Given With Problem:

The task for Fire and Rescue team was to reach the incident site immediately and to evacuate the people and gathered at assembly point and count number of heads. To control fire and rescue the injured persons and send them to Occupational Health Centre.

A Fire incident happened at Junction tower # 4 in which one of the supervisor of M/s CEDRESS, Mr. Manish got injured and he became unconscious. He was rescued by Fire & Rescue team. He was rescued and rushed to site Occupational Health Centre. After that all persons who were working inside junction tower 4 were rescued and gathered at Assemble point.

Sr. No.	Aspect	Time	Response Time	Remarks
1.	Arrival of persons to control the emergency Shop/ Location In-charge	11:33 am	03 minutes	
2.	Arrival of emergency/rescue vehicle /ambulance at the location of incidence	11:33 am	03 minutes	
3.	Arrival of Fire Tender	11:33 am	03 minutes	
4.	Assembly of persons affected at the Assembly Point	11:40 am	07 minutes	
5.	Emergency declared under control	11:45 am	12 minutes	

Resource Availability

Sr. No.	Aspect	Observation	Remarks
1.	Site Map	YES	
2.	Emergency Contact Numbers	YES	
3.	Tele communication System	YES	
4.	Fire extinguishers	YES	
5.	Fire buckets	YES	
6.	Water for fire fighting	YES	
7.	First Aid Kit	YES	
8.	Fire Tender	YES	
9.	Man power round the clock coverage	YES	
10.	Ambulance	YES	

Action taken by Emergency Team:

First operation and concerned departments were called and asked to stop the operation and work. Emergency team with Fire tender and ambulance reached the incident area. Injured and affected persons were taken out and First aid were done to them, and one person who was unconscious was rushed to site occupational health centre through site ambulance. All the persons who were trapped were rescued and

gathered at assemble point. Finally the incident controller, Mr. SN Pandey, Sr. VP declared Emergency under control.





Dy. Manager (Safety)
RKM Powergen Pvt. Ltd.

Sr. V.P
RKM Powergen Pvt. Ltd.

Acknowledgement Copy

R.K.M POWERGEN PVT. LTD.

No. 14, Dr Giriappa Road, T.Nagar, Chennai - 600 017. INDIA.

Tel: +91-44-66291000 Fax: 044-28158243 / 66291100 Email: rkmpowergen@gmail.com, rkm@rkmpowergen.in
CIN No:U40101TN2004PTC054931

Ref. No. RKM/ENV/2015-16

Date 16.12.2015

To
The Regional Officer,
Chhattisgarh Environment Conservation Board,
Vyapar Vihar Near, Pandit Deendayal Upadhyay Park,
Bilaspur (C. G.)

Subj:- Ambient Air, Surface Water, Ground Water, Noise and Soil Analysis Report of
Core and Buffer Zone for the month of November-2015.

Dear Sir,

With reference above cited subject, we are submitting herewith the Ambient Air, Surface Water, Ground Water, Noise and Soil Analysis Report of Core and Buffer Zone for the month of November-2015, with respect to our R.K.M Powergen Pvt. Ltd., (4x360MW).

This is for your information and record please.

Thanking you,

Your faithfully,
For R.K.M Powergen Pvt. Ltd.

(S.N. Bandey)
Director



Encl: Air, Water, Noise & Soil Analysis Report for the month of November-2015.



ULTRA TESTING & RESEARCH LABORATORY

(An ISO 9001: 2008 Certified & NABL Accredited Laboratory)

Certificate No. T-3142

Laboratory: C-43, Sector-88, Phase-II, Noida, UP
Ph. No.: 0120-2449299, +91-9971912476, 9350952231,
Website: <http://www.ultralabnoida.com>
E-mail: ultraresarchlab@gmail.com

TEST REPORT

Surface Water Sample Analysis

Report Code WW-19112015-01
Issued To

Issue Date: 24/11/2015

: RKM POWERGEN PVT. LTD.
UCCHHPINDA, TEHSIL-DABHARA
DISTRICT-JANJGIR CHAMPA (CHHATISGARH)

Sample Received On : 19/11/2015
Sample Collected By : Mr. Gopal Singh(UTRL)
Sample Description : Surface Water (Class-E)
Source Of Sampling : Sample Collected from Mahanadi River
Sample Drawn On : 17/11/2015
Sample Quantity : 2.0 Liter
Weather Conditions : Normal
Analysis Duration : 19/11/2015 To 24/11/2015

RESULTS

As per IS:2296

S.No.	Parameter	Test Method	Results	Units	Limits as per CPCB
1.	pH	IS:3025(Part-11)	7.50	-	6.0-8.5
2.	Electrical Conductivity	IS:3025(Part-14)	336.5	mg/l	2250.0 Max.
3.	Sodium Absorption Ratio	IS:11624-1986	0.23	-	26.0 Max.
4.	Boron(as B)	IS:3025(Part-57)	0.86	mg/l	2.0 Max.
5.	Total Dissolved Solid	IS:3025(Part-16)	212.0	mg/l	2100.0 Max.
6.	Sulphate(as SO ₄)	IS:3025(Part-24)	36.83	mg/l	1000.0 Max.
7.	Chlorides(as Cl)	IS:3025(Part-32)	35.98	mg/l	600.0 Max.

End of Report

Note:

- The results given above are related to the tested sample, for various parameters, as observed at the time of sampling. The customer asked for the above tests only.
- This test report will not be used for any publicity/legal purpose
- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

For ULTRA TESTING & RESEARCH LABORATORY

Checked By

(Authorized Signatory)

Assuring you of best our services at all times

Acknowledgement Copy

R.K.M POWERGEN PVT. LTD.

No. 14, Dr. Giriappa Road, T.Nagar, Chennai - 600 017. INDIA.

Tel: +91-44-66291000 Fax: 044-28158243 / 66291100 Email: rkmpowergen@gmail.com, rkm@rkmpowergen.in
CIN No:U40101TN2004PTC054931

Ref. 599.../RKM/ENV/2015-16

Date 16.12.2015

To
The Regional Officer,
Chhattisgarh Environment Conservation Board,
Vyapar Vihar Near, Pandit Deendayal Upadhyay Park,
Bilaspur (C. G.)

Subj:- Ambient Air, Surface Water, Ground Water, Noise and Soil Analysis Report of
Core and Buffer Zone for the month of November-2015.

Dear Sir,

With reference above cited subject, we are submitting herewith the Ambient Air, Surface Water, Ground Water, Noise and Soil Analysis Report of Core and Buffer Zone for the month of November-2015, with respect to our R.K.M Powergen Pvt. Ltd., (4x360MW).

This is for your information and record please.

Thanking you,

Your faithfully,
For R.K.M Powergen Pvt. Ltd.

(S.N. Pandey)
Director



Encl: Air, Water, Noise & Soil Analysis Report for the month of November-2015.



ULTRA TESTING & RESEARCH LABORATORY

(An ISO 9001: 2008 Certified & NABL Accredited Laboratory)

Certificate No. T-3142

Laboratory: C-43, Sector-88, Phase-II, Noida, UP
Ph. No.: 0120-2449299, +91-9971912476, 9350952231,

Website: <http://www.ultralabnoida.com>

E-mail: ultraresarchlab@gmail.com

TEST REPORT

Surface Water Sample Analysis

Report Code WW-19112015-02

Issued To

Issue Date: 24/11/2015

: RKM POWERGEN PVT. LTD.
UCCHHPINDA, TEHSIL-DABHARA
DISTRICT-JANJGIR CHAMPA (CHHATISGARH)

Sample Received On : 19/11/2015
Sample Collected By : Mr. Gopal Singh(UTRL)
Sample Description : Surface Water (Class-B)
Source Of Sampling : Sample Collected from Kekrabhat Village Pond
Sample Drawn On : 17/11/2015
Sample Quantity : 2.0 Liter
Weather Conditions : Normal
Analysis Duration : 19/11/2015 To 24/11/2015

RESULTS As per IS:2296

S.No.	Parameter	Test Method	Results	Units	Limits as per CPCB
1.	pH	IS:3025(Part-11)	6.94	-	6.5-8.5
2.	Dissolved Oxygen	IS:3025(Part-38)	6.1	mg/l	5.0 Min.
3.	Biochemical Oxygen Demand(3days at 25°C)	IS:3025(Part-44)	2.6	mg/l	3.0 Max.
4.	Total Coliform Organisms	IS-1622	379.0	MPN/100 ml	500.0 Max.
5.	Fluoride(as F)	IS:3025(Part-16)	0.74	mg/l	1.5 Max.
6.	Colour	IS:3025(Part-4)	5.0	Hazen	300.0 Max.
7.	Cyanides(as CN)	IS:3025(Part-27)	<0.001	mg/l	0.05 Max.
8.	Phenolic Compound (as C ₂ H ₅ OH)	IS: 3025 (P- 43)	ND	mg/l	0.005 Max.
9.	Arsenic (as As)	IS-3025(P-37)	<0.01	mg/l	0.2 Max.
10.	Hexa Chromium (as Cr)	Annex J of IS-13428	<0.001	mg/l	1.0 Max.
11.	Anionic Detergents (as MBAS)	Annex K of IS 13428	0.46	mg/l	1.0

End of Report

Note:

1. The results given above are related to the tested sample, for various parameters, as observed at the time of sampling. The customer asked for the above tests only.
2. This test report will not be used for any publicity/legal purpose
3. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

For ULTRA TESTING & RESEARCH LABORATORY



Checked By

Assuring you of best our services at *(Authorized Signatory)*



ULTRA TESTING & RESEARCH LABORATORY

(An ISO 9001: 2008 Certified & NABL Accredited Laboratory)

Certificate No. T-3142

Laboratory: C-43, Sector-88, Phase-II, Noida, UP
Ph. No.: 0120-2449299, +91-9971912476, 9350952231,

Website: <http://www.ultralabnoida.com>

E-mail: ultrareserchlab@gmail.com

TEST REPORT

Soil Sample Analysis

Report Code SS-19112015-02
Issued To

Issue Date: 24/11/2015

: RKM POWERGEN PVT. LTD.
UCCHHPINDA, TEHSIL-DABHARA
DISTRICT-JANJGIR CHAMPA (CHHATISGARH)

Sample Received on : 19/11/2015
Sample Drawn By : Mr. Deepak Kumar(UTRL)
Sample Description : Soil Sample
Sampling Location : Near Village-Kanhakot
Sample Drawn On : 17/11/2015
Sample Quantity : 2.0 Kg
Weather Conditions : Normal
Analysis Duration : 19/11/2015 To 24/11/2015

RESULTS

S. No.	Parameter	Units	Result	Test Method
1	Texture	-	Sandy Loam	IS: 2720 (part-4), 1985 Reaff:2006
	Silt	%	13.50	IS: 2720 (part-4), 1985 Reaff:2006
	clay	%	27.35	IS: 2720 (part-4), 1985 Reaff:2006
	Sand	%	59.15	IS: 2720 (part-4), 1985 Reaff:2006
2	pH	-	7.17	IS: 2720 (part-26), 1987
3	Electrical Conductivity	µmhos/cm	154.7	IS: 2720 (part-21)
4	Potassium	mg/kg	157.27	UTRL/STP/SOIL
5	Sodium	mg/kg	116.58	UTRL/STP/SOIL
6	Water Holding Capacity	%	30.2	UTRL/STP/SOIL
7	Phosphorus	mg/kg	32.67	UTRL/STP/SOIL
8	Organic Carbon	%	0.41	IS: 2720 (part-22)
9	Organic Matter	%	0.71	IS: 2720 (part-22)
10.	Bulk Density	gm/cc	1.30	UTRL/STP/SOIL
11.	Nitrogen(as N)	%	0.21	UTRL/STP/SOIL
12.	Calcium(as Ca)	mg/kg	1870.43	UTRL/STP/SOIL
13.	Magnesium(as Mg)	mg/kg	304.85	UTRL/STP/SOIL
14.	Moisture	%	7.20	UTRL/STP/SOIL

End of Report

Note:

- The results given above are related to the tested sample, for various parameters, as observed at the time of sampling. The customer asked for the above tests only.
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For ULTRA TESTING & RESEARCH LABORATORY
(Authorised Signatory)



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Ph. No.: 0120-2449299, +91-9971912476, 9350952231,

Website: <http://www.ultralabnoida.com>

E-mail: ultrareserchlab@gmail.com

TEST REPORT

Soil Sample Analysis

Report Code SS-19112015-03
Issued To

Issue Date: 24/11/2015

: RKM POWERGEN PVT. LTD.
UCCHHPINDA, TEHSIL-DABHARA
DISTRICT-JANJGIR CHAMPA (CHHATISGARH)

Sample Received on : 19/11/2015
Sample Drawn By : Mr. Deepak Kumar(UTRL)
Sample Description : Soil Sample
Sampling Location : Near Village-Kekrabhat
Sample Drawn On : 17/11/2015
Sample Quantity : 2.0 Kg
Weather Conditions : Normal
Analysis Duration : 19/11/2015 To 24/11/2015

RESULTS

S. No.	Parameter	Units	Result	Test Method
1	Texture	-	Sandy Clay Loam	IS: 2720 (part-4), 1985 Reaff:2006
	Silt	%	15.17	IS: 2720 (part-4), 1985 Reaff:2006
	clay	%	32.07	IS: 2720 (part-4), 1985 Reaff:2006
	Sand	%	52.76	IS: 2720 (part-4), 1985 Reaff:2006
2	pH	-	7.04	IS: 2720 (part-26), 1987
3	Electrical Conductivity	$\mu\text{mhos/cm}$	78.29	IS: 2720 (part-21)
4	Potassium	mg/kg	104.97	UTRL/STP/SOIL
5	Sodium	mg/kg	108.19	UTRL/STP/SOIL
6	Water Holding Capacity	%	32.6	UTRL/STP/SOIL
7	Phosphorus	mg/kg	39.06	UTRL/STP/SOIL
8	Organic Carbon	%	0.45	IS: 2720 (part-22)
9	Organic Matter	%	0.77	IS: 2720 (part-22)
10.	Bulk Density	gm/cc	1.28	UTRL/STP/SOIL
11.	Nitrogen(as N)	%	0.34	UTRL/STP/SOIL
12.	Calcium(as Ca)	mg/kg	2409.17	UTRL/STP/SOIL
13.	Magnesium(as Mg)	mg/kg	365.89	UTRL/STP/SOIL
14.	Moisture	%	5.82	UTRL/STP/SOIL

End of Report

Note:

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E-mail: ultraresarchlab@gmail.com

TEST REPORT

Soil Sample Analysis

Report Code: SS-19112015-01
Issued To

Issue Date: 24/11/2015

: RKM POWERGEN PVT. LTD.
UCCHHPINDA, TEHSIL-DABHARA
DISTRICT-JANJGIR CHAMPA (CHHATISGARH)

Sample Received on : 19/11/2015
Sample Drawn By : Mr. Deepak Kumar(UTRL)
Sample Description : Soil Sample
Sampling Location : On Project Site (Ucchhpinda)
Sample Drawn On : 17/11/2015
Sample Quantity : 2.0 Kg
Weather Conditions : Normal
Analysis Duration : 19/11/2015 To 24/11/2015

RESULTS

S. No.	Parameter	Units	Result	Test Method
1	Texture	-	Sandy Loam	IS: 2720 (part-4), 1985 Reaff:2006
	Silt	%	13.40	IS: 2720 (part-4), 1985 Reaff:2006
	clay	%	26.16	IS: 2720 (part-4), 1985 Reaff:2006
	Sand	%	60.44	IS: 2720 (part-4), 1985 Reaff:2006
2	pH	-	6.86	IS: 2720 (part-26),1987
3	Electrical Conductivity	µmhos/cm	63.89	IS: 2720 (part-21)
4	Potassium	mg/kg	98.81	UTRL/STP/SOIL
5	Sodium	mg/kg	85.35	UTRL/STP/SOIL
6	Water Holding Capacity	%	30.8	UTRL/STP/SOIL
7	Phosphorus	mg/kg	28.18	UTRL/STP/SOIL
8	Organic Carbon	%	0.38	IS: 2720 (part-22)
9	Organic Matter	%	0.65	IS: 2720 (part-22)
10.	Bulk Density	gm/cc	1.30	UTRL/STP/SOIL
11.	Nitrogen(as N)	%	0.18	UTRL/STP/SOIL
12.	Calcium(as Ca)	mg/kg	1383.12	UTRL/STP/SOIL
13.	Magnesium(as Mg)	mg/kg	192.05	UTRL/STP/SOIL
14.	Moisture	%	3.16	UTRL/STP/SOIL

End of Report

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TEST REPORT

Soil Sample Analysis

Report Code SS-19112015-04

Issue Date: 24/11/2015

Issued To

: RKM POWERGEN PVT. LTD.
UCCHHPINDA, TEHSIL-DABHARA
DISTRICT-JANJGIR CHAMPA (CHHATISGARH)

Sample Received on : 19/11/2015
Sample Drawn By : Mr. Deepak Kumar (UTRL)
Sample Description : Soil Sample
Sampling Location : Near Village-Dhurkot
Sample Drawn On : 17/11/2015
Sample Quantity : 2.0 Kg
Weather Conditions : Normal
Analysis Duration : 19/11/2015 To 24/11/2015

RESULTS

S. No.	Parameter	Units	Result	Test Method
1	Texture	-	Sandy Loam	IS: 2720 (part-4), 1985 Reaff:2006
	Silt	%	13.12	IS: 2720 (part-4), 1985 Reaff:2006
	clay	%	26.36	IS: 2720 (part-4), 1985 Reaff:2006
	Sand	%	60.52	IS: 2720 (part-4), 1985 Reaff:2006
2	pH	-	7.76	IS: 2720 (part-26), 1987
3	Electrical Conductivity	$\mu\text{mhos/cm}$	86.17	IS: 2720 (part-21)
4	Potassium	mg/kg	320.93	UTRL/STP/SOIL
5	Sodium	mg/kg	152.60	UTRL/STP/SOIL
6	Water Holding Capacity	%	31.2	UTRL/STP/SOIL
7	Phosphorus	mg/kg	24.97	UTRL/STP/SOIL
8	Organic Carbon	%	0.26	IS: 2720 (part-22)
9	Organic Matter	%	0.45	IS: 2720 (part-22)
10.	Bulk Density	gm/cc	1.30	UTRL/STP/SOIL
11.	Nitrogen(as N)	%	0.27	UTRL/STP/SOIL
12.	Calcium(as Ca)	mg/kg	1960.24	UTRL/STP/SOIL
13.	Magnesium(as Mg)	mg/kg	221.55	UTRL/STP/SOIL
14.	Moisture	%	13.62	UTRL/STP/SOIL

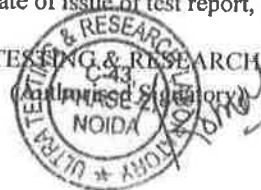
End of Report

Note:

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E-mail: ultraresarchlab@gmail.com

TEST REPORT

Water Sample Analysis

Report Code W-19112015-03
Issued To

Issue Date: 24/11/2015

: RKM POWERGEN PVT. LTD.
UCCHHPINDA, TEHSIL-DABHARA
DISTRICT-JANJGIR CHAMPA (CHHATISGARH)

Sample Received On : 19/11/2015
Sample Collected By : Mr. Gopal Singh(UTRL)
Sample Description : Ground Water
Sampling Location : Near Village-Kekrabhat
Source Of Sampling : Handpump
Sample Drawn On : 17/11/2015
Sample Quantity : 2.0 Liter
Weather Conditions : Normal
Analysis Duration : 19/11/2015 To 24/11/2015

MICROBIOLOGICAL REQUIREMENT

RESULTS				
S.No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	<i>Escherichia coli</i>	IS-1622	Absent	Absent/100 ml
2.	<i>Coliform Bacteria</i>	IS-1622	Absent	Absent/100 ml

ORGANOLEPTIC & PHYSICAL PARAMETERS

RESULTS						
S.No.	Parameter	Test Method	Results	Units	Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	Colour	IS-3025(P-04)	<1.0	Hazen	5	15
2.	Odour	IS-3025(P-05)	Agreeable	-	Agreeable	Agreeable
3.	Taste	IS-3025(P-07 & 08)	Agreeable	-	Agreeable	-
4.	Turbidity	IS-3025(P-10)	<1.0	NTU	1	5
5.	pH value	IS-3025(P-04)	6.96	-	6.5-8.5	-
6.	Total Dissolve solid (TDS)	IS-3025(P-16)	113.0	mg/l	500	2000

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Contd. from report Code W-19112015-03(Page 2 of 3)

GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS

S.No	Parameter	Test Method	Results	Units	Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	Total Hardness (as CaCO ₃)	IS: 3025 (P- 23)	32.0	mg/l	200	600
2.	Calcium (as Ca)	IS: 3025 (P- 40)	8.0	mg/l	75	200
3.	Chloride (as Cl)	IS: 3025 (P- 32)	29.35	mg/l	250	1000
4.	Copper (as Cu)	IS : 3025 (P-42)	ND	mg/l	0.05	1.5
5.	Fluoride (as F)	IS: 3025 (P-60)	0.16	mg/l	1.0	1.5
6.	Free Residual Chlorine	IS: 3025 (P-26)	<0.1	mg/l	0.2	1.0
7.	Iron (as Fe)	IS: 3025(P-53)	<0.05	mg/l	0.3	No Relaxation
8.	Magnesium (as Mg)	IS: 3025 (P-46)	2.91	mg/l	30	100
9.	Manganese (as Mn)	Clause 35 of IS 3025	<0.1	mg/l	0.1	0.3
10.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	1.63	mg/l	45	No Relaxation
11.	Selenium (as Se)	IS: 3025 (P- 56)	ND	mg/l	0.01	No Relaxation
12.	Chloramines (as Cl ₂)	IS: 3025 (P- 26)	ND	mg/l	4.0	No Relaxation
13.	Ammonia (as N)	IS: 3025 (P- 34)	ND	mg/l	0.5	No Relaxation
14.	Hexa Chromium (as Cr ⁺⁶)	Annex J of IS- 13428	<0.001	mg/l	0.05	No Relaxation
15.	Anionic Detergents (as MBAS)	Annex K of IS 13428	ND	mg/l	0.2	1.0
16.	Barium (as Ba)	Annex F of IS 13428	ND	mg/l	0.7	No Relaxation
17.	Silver (as Ag)	Annex J of IS 13428	ND	mg/l	0.1	No Relaxation
18.	Sulphate (as SO ₄)	IS: 3025 (P- 24)	17.69	mg/l	200	400
19.	Zinc (as Zn)	IS: 3025 (P- 49)	<0.1	mg/l	5.0	15
20.	Aluminum (as Al)	IS: 3025 (P- 55)	ND	mg/l	0.03	0.2
21.	Boron (as B)	IS: 3025 (P- 57)	ND	mg/l	0.5	1.0
22.	Phenolic Compound (as C ₂ H ₅ OH)	IS: 3025 (P- 43)	ND	mg/l	0.001max.	0.002 max.
23.	Alkalinity(as CaCO ₃)	IS: 3025 (P- 23)	12.0	mg/l	200	600 max.
24.	Sulphide (as H ₂ S)	IS: 3025 (P- 29)	ND	mg/l	0.05	No Relaxation
25.	Nitrite (as NO ₂)	IS: 3025 (P- 34)	ND	mg/l	0.02	No Relaxation

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Contd. From report Code W-19112015-03(Page 3 of 3)

Parameters Concerning Toxic Substances:

S.No.	Parameter	Test Method	Results	Units	Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	Cadmium (as Cd)	IS-3025(P-41)	<0.001	mg/l	0.003	No Relaxation
2.	Cyanide (as CN)	IS-3025(P-27)	<0.01	mg/l	0.05	No Relaxation
3.	Lead (as Pb)	IS-3025(P-47)	<0.01	mg/l	0.01	No Relaxation
4.	Mercury (as Hg)	IS-3025(P-48)	<0.001	mg/l	0.001	No Relaxation
5.	Arsenic (as As)	IS-3025(P-37)	<0.01	mg/l	0.01	0.05
6.	Total Chromium (as Cr)	Annex J of IS-13428	<0.001	mg/l	0.05	No Relaxation
7	Molybdenum (as Mo)	IS-3025(P-2)	<0.001	mg/l	0.07	No Relaxation

Remarks: ND-Not Detectable

****End of Report****

Note:

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For ULTRA TESTING & RESEARCH LABORATORY

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TEST REPORT

Water Sample Analysis

Report Code W-19112015-01

Issue Date: 24/11/2015

Issued To

: RKM POWERGEN PVT. LTD.
UCCHHPINDA, TEHSIL-DABHARA
DISTRICT-JANJGIR CHAMPA (CHHATISGARH)

Sample Received On	: 19/11/2015
Sample Collected By	: Mr. Deepak Kumar(UTRL)
Sample Description	: Ground Water
Sampling Location	: Near Admin Office/Site Office
Source Of Sampling	: Tap Water
Sample Drawn On	: 17/11/2015
Sample Quantity	: 2.0 Liter
Weather Conditions	: Normal
Analysis Duration	: 19/11/2015 To 24/11/2015

MICROBIOLOGICAL REQUIREMENT

RESULTS				
S.No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	<i>Escherichia coli</i>	IS-1622	Absent	Absent/100 ml
2.	<i>Coliform Bacteria</i>	IS-1622	Absent	Absent/100 ml

ORGANOLEPTIC & PHYSICAL PARAMETERS

RESULTS						
S.No.	Parameter	Test Method	Results	Units	Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	Colour	IS-3025(P-04)	<1.0	Hazen	5	15
2.	Odour	IS-3025(P-05)	Agreeable	-	Agreeable	Agreeable
3.	Taste	IS-3025(P-07 & 08)	Agreeable	-	Agreeable	-
4.	Turbidity	IS-3025(P-10)	<1.0	NTU	1	5
5.	pH value	IS-3025(P-04)	6.79	-	6.5-8.5	-
6.	Total Dissolve solid (TDS)	IS-3025(P-16)	68.0	mg/l	500	2000

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Contd. To report Code W-19112015-01 (Page 1 of 3)



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Contd. from report Code W-19112015-01(Page 2 of 3)

GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS

S.No	Parameter	Test Method	Results	Units	Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	Total Hardness (as CaCO ₃)	IS: 3025 (P- 23)	28.0	mg/l	200	600
2.	Calcium (as Ca)	IS: 3025 (P- 40)	6.4	mg/l	75	200
3.	Chloride (as Cl)	IS: 3025 (P- 32)	10.0	mg/l	250	1000
4.	Copper (as Cu)	IS : 3025 (P-42)	ND	mg/l	0.05	1.5
5.	Fluoride (as F)	IS: 3025 (P-60)	<0.1	mg/l	1.0	1.5
6.	Free Residual Chlorine	IS: 3025 (P-26)	<0.1	mg/l	0.2	1.0
7.	Iron (as Fe)	IS: 3025(P-53)	<0.05	mg/l	0.3	No Relaxation
8.	Magnesium (as Mg)	IS: 3025 (P-46)	2.91	mg/l	30	100
9.	Manganese (as Mn)	Clause 35 of IS 3025	<0.1	mg/l	0.1	0.3
10.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	1.30	mg/l	45	No Relaxation
11.	Selenium (as Se)	IS: 3025 (P- 56)	ND	mg/l	0.01	No Relaxation
12.	Chloramines (as Cl ₂)	IS: 3025 (P- 26)	ND	mg/l	4.0	No Relaxation
13.	Ammonia (as N)	IS: 3025 (P- 34)	ND	mg/l	0.5	No Relaxation
14.	Hexa Chromium (as Cr ⁺⁶)	Annex J of IS-13428	<0.001	mg/l	0.05	No Relaxation
15.	Anionic Detergents (as MBAS)	Annex K of IS 13428	ND	mg/l	0.2	1.0
16.	Barium (as Ba)	Annex F of IS 13428	ND	mg/l	0.7	No Relaxation
17.	Silver (as Ag)	Annex J of IS 13428	ND	mg/l	0.1	No Relaxation
18.	Sulphate (as SO ₄)	IS: 3025 (P- 24)	12.78	mg/l	200	400
19.	Zinc (as Zn)	IS: 3025 (P- 49)	<0.1	mg/l	5.0	15
20.	Aluminum (as Al)	IS: 3025 (P- 55)	ND	mg/l	0.03	0.2
21.	Boron (as B)	IS: 3025 (P- 57)	ND	mg/l	0.5	1.0
22.	Phenolic Compound (as C ₂ H ₅ OH)	IS: 3025 (P- 43)	ND	mg/l	0.001max.	0.002 max.
23.	Alkalinity(as CaCO ₃)	IS: 3025 (P- 23)	4.0	mg/l	200	600 max.
24.	Sulphide (as H ₂ S)	IS: 3025 (P- 29)	ND	mg/l	0.05	No Relaxation
25.	Nitrite (as NO ₂)	IS: 3025 (P- 34)	ND	mg/l	0.02	No Relaxation

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Contd. From report Code W-19112015-03(Page 3 of 3)

Parameters Concerning Toxic Substances:

S.No.	Parameter	Test Method	Results	Units	Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	Cadmium (as Cd)	IS-3025(P-41)	<0.001	mg/l	0.003	No Relaxation
2.	Cyanide (as CN)	IS-3025(P-27)	<0.01	mg/l	0.05	No Relaxation
3.	Lead (as Pb)	IS-3025(P-47)	<0.01	mg/l	0.01	No Relaxation
4.	Mercury (as Hg)	IS-3025(P-48)	<0.001	mg/l	0.001	No Relaxation
5.	Arsenic (as As)	IS-3025(P-37)	<0.01	mg/l	0.01	0.05
6.	Total Chromium (as Cr)	Annex J of IS-13428	<0.001	mg/l	0.05	No Relaxation
7.	Molybdenum (as Mo)	IS-3025(P-2)	<0.001	mg/l	0.07	No Relaxation

End of Report

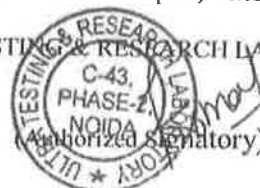
Remarks: ND-Not Detectable

Note:

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2. This test report will not be used for any publicity/legal purpose
3. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

For ULTRA TESTING & RESEARCH LABORATORY

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Certificate No. T-3142

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Ph. No.: 0120-2449299, +91-9971912476, 9350952231,
Website: <http://www.ultralabnoida.com>
E-mail: ultraresearchlab@gmail.com

TEST REPORT

Water Sample Analysis

Report Code W-19112015-04
Issued To

Issue Date: 24/11/2015

: RKM POWERGEN PVT. LTD.
UCCHHPINDA, TEHSIL-DABHARA
DISTRICT-JANJGIR CHAMPA (CHHATISGARH)

Sample Received On : 19/11/2015
Sample Collected By : Mr. Gopal Singh(UTRL)
Sample Description : Ground Water
Sampling Location : Near Village-Dhurkot
Source Of Sampling : Handpump
Sample Drawn On : 17/11/2015
Sample Quantity : 2.0 Liter
Weather Conditions : Normal
Analysis Duration : 19/11/2015 To 24/11/2015

MICROBIOLOGICAL REQUIREMENT

RESULTS				
S.No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	<i>Escherichia coli</i>	IS-1622	Absent	Absent/100 ml
2.	<i>Coliform Bacteria</i>	IS-1622	Absent	Absent/100 ml

ORGANOLEPTIC & PHYSICAL PARAMETERS

RESULTS						
S.No.	Parameter	Test Method	Results	Units	Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	Colour	IS-3025(P-04)	<1.0	Hazen	5	15
2.	Odour	IS-3025(P-05)	Agreeable	-	Agreeable	Agreeable
3.	Taste	IS-3025(P-07 & 08)	Agreeable	-	Agreeable	-
4.	Turbidity	IS-3025(P-10)	<1.0	NTU	1	5
5.	pH value	IS-3025(P-04)	7.16	-	6.5-8.5	-
6.	Total Dissolve solid (TDS)	IS-3025(P-16)	719.0	mg/l	500	2000

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Contd. 10 Report Code W-19112015-04 (Page 1 of 3)

R. K. Karmal



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 E-mail: ultraresarchlab@gmail.com

Contd. from report Code W-19112015-04(Page 2 of 3)

GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS

S.No	Parameter	Test Method	Results	Units	Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	Total Hardness (as CaCO ₃)	IS: 3025 (P- 23)	460.0	mg/l	200	600
2.	Calcium (as Ca)	IS: 3025 (P- 40)	156.8	mg/l	75	200
3.	Chloride (as Cl)	IS: 3025 (P- 32)	179.94	mg/l	250	1000
4.	Copper (as Cu)	IS : 3025 (P-42)	ND	mg/l	0.05	1.5
5.	Fluoride (as F)	IS: 3025 (P-60)	0.82	mg/l	1.0	1.5
6.	Free Residual Chlorine	IS: 3025 (P-26)	<0.1	mg/l	0.2	1.0
7.	Iron (as Fe)	IS: 3025(P-53)	0.093	mg/l	0.3	No Relaxation
8.	Magnesium (as Mg)	IS: 3025 (P-46)	16.52	mg/l	30	100
9.	Manganese (as Mn)	Clause 35 of IS 3025	<0.1	mg/l	0.1	0.3
10.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	13.10	mg/l	45	No Relaxation
11.	Selenium (as Se)	IS: 3025 (P- 56)	ND	mg/l	0.01	No Relaxation
12.	Chloramines (as Cl ₂)	IS: 3025 (P- 26)	ND	mg/l	4.0	No Relaxation
13.	Ammonia (as N)	IS: 3025 (P- 34)	ND	mg/l	0.5	No Relaxation
14.	Hexa Chromium (as Cr ⁺⁶)	Annex J of IS- 13428	<0.001	mg/l	0.05	No Relaxation
15.	Anionic Detergents (as MBAS)	Annex K of IS 13428	ND	mg/l	0.2	1.0
16.	Barium (as Ba)	Annex F of IS 13428	ND	mg/l	0.7	No Relaxation
17.	Silver (as Ag)	Annex J of IS 13428	ND	mg/l	0.1	No Relaxation
18.	Sulphate (as SO ₄)	IS: 3025 (P- 24)	86.61	mg/l	200	400
19.	Zinc (as Zn)	IS: 3025 (P- 49)	1.74	mg/l	5.0	15
20.	Aluminum (as Al)	IS: 3025 (P- 55)	ND	mg/l	0.03	0.2
21.	Boron (as B)	IS: 3025 (P- 57)	ND	mg/l	0.5	1.0
22.	Phenolic Compound (as C ₂ H ₅ OH)	IS: 3025 (P- 43)	ND	mg/l	0.001max.	0.002 max.
23.	Alkalinity(as CaCO ₃)	IS: 3025 (P- 23)	272.0	mg/l	200	600 max.
24.	Sulphide (as H ₂ S)	IS: 3025 (P- 29)	ND	mg/l	0.05	No Relaxation
25.	Nitrite (as NO ₂)	IS: 3025 (P- 34)	ND	mg/l	0.02	No Relaxation

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E-mail: ultraresarchlab@gmail.com

Contd. From report Code W-19112015-04(Page 3 of 3)

Parameters Concerning Toxic Substances:

S.No.	Parameter	Test Method	Results	Units	Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	Cadmium (as Cd)	IS-3025(P-41)	<0.001	mg/l	0.003	No Relaxation
2.	Cyanide (as CN)	IS-3025(P-27)	<0.01	mg/l	0.05	No Relaxation
3.	Lead (as Pb)	IS-3025(P-47)	<0.01	mg/l	0.01	No Relaxation
4.	Mercury (as Hg)	IS-3025(P-48)	<0.001	mg/l	0.001	No Relaxation
5.	Arsenic (as As)	IS-3025(P-37)	<0.01	mg/l	0.01	0.05
6.	Total Chromium (as Cr)	Annex J of IS-13428	<0.001	mg/l	0.05	No Relaxation
7.	Molybdenum (as Mo)	IS-3025(P-2)	<0.001	mg/l	0.07	No Relaxation

End of Report

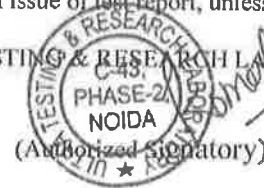
Remarks: ND-Not Detectable

Note:

1. The results given above are related to the tested sample, for various parameters, as observed at the time of sampling. The customer asked for the above tests only.
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E-mail: ultraresearchlab@gmail.com

TEST REPORT

Water Sample Analysis

Report Code W-19112015-02
Issued To

Issue Date: 24/11/2015

: RKM POWERGEN PVT. LTD.
UCCHHPINDA, TEHSIL-DABHARA
DISTRICT-JANJGIR CHAMPA (CHHATISGARH)

Sample Received On : 19/11/2015
Sample Collected By : Mr. Deepak Kumar(UTRL)
Sample Description : Ground Water
Sampling Location : Near Village-Kanhakot
Source Of Sampling : Handpump
Sample Drawn On : 17/11/2015
Sample Quantity : 2.0 Liter
Weather Conditions : Normal
Analysis Duration : 19/11/2015 To 24/11/2015

MICROBIOLOGICAL REQUIREMENT

RESULTS				
S.No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	<i>Escherichia coli</i>	IS-1622	Absent	Absent/100 ml
2.	<i>Coliform Bacteria</i>	IS-1622	Absent	Absent/100 ml

ORGANOLEPTIC & PHYSICAL PARAMETERS

RESULTS						
S.No.	Parameter	Test Method	Results	Units	Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	Colour	IS-3025(P-04)	<1.0	Hazen	5	15
2.	Odour	IS-3025(P-05)	Agreeable	-	Agreeable	Agreeable
3.	Taste	IS-3025(P-07 & 08)	Agreeable	-	Agreeable	-
4.	Turbidity	IS-3025(P-10)	<1.0	NTU	1	5
5.	pH value	IS-3025(P-04)	7.16	-	6.5-8.5	-
6.	Total Dissolve solid (TDS)	IS-3025(P-16)	638.0	mg/l	500	2000

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Code W-19112015-02 Page 1 of 3



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Contd. from report Code W-19112015-02(Page 2 of 3)

GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS

S.No	Parameter	Test Method	Results	Units	Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	Total Hardness (as CaCO ₃)	IS: 3025 (P- 23)	440.0	mg/l	200	600
2.	Calcium (as Ca)	IS: 3025 (P- 40)	156.80	mg/l	75	200
3.	Chloride (as Cl)	IS: 3025 (P- 32)	10.0	mg/l	250	1000
4.	Copper (as Cu)	IS : 3025 (P-42)	ND	mg/l	0.05	1.5
5.	Fluoride (as F)	IS: 3025 (P-60)	0.84	mg/l	1.0	1.5
6.	Free Residual Chlorine	IS: 3025 (P-26)	<0.1	mg/l	0.2	1.0
7.	Iron (as Fe)	IS: 3025(P-53)	0.17	mg/l	0.3	No Relaxation
8.	Magnesium (as Mg)	IS: 3025 (P-46)	11.66	mg/l	30	100
9.	Manganese (as Mn)	Clause 35 of IS 3025	<0.1	mg/l	0.1	0.3
10.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	7.52	mg/l	45	No Relaxation
11.	Selenium (as Se)	IS: 3025 (P- 56)	ND	mg/l	0.01	No Relaxation
12.	Chloramines (as Cl ₂)	IS: 3025 (P- 26)	ND	mg/l	4.0	No Relaxation
13.	Ammonia (as N)	IS: 3025 (P- 34)	ND	mg/l	0.5	No Relaxation
14.	Hexa Chromium (as Cr ⁺⁶)	Annex J of IS- 13428	<0.001	mg/l	0.05	No Relaxation
15.	Anionic Detergents (as MBAS)	Annex K of IS 13428	ND	mg/l	0.2	1.0
16.	Barium (as Ba)	Annex F of IS 13428	ND	mg/l	0.7	No Relaxation
17.	Silver (as Ag)	Annex J of IS 13428	ND	mg/l	0.1	No Relaxation
18.	Sulphate (as SO ₄)	IS: 3025 (P- 24)	73.85	mg/l	200	400
19.	Zinc (as Zn)	IS: 3025 (P- 49)	2.31	mg/l	5.0	15
20.	Aluminum (as Al)	IS: 3025 (P- 55)	ND	mg/l	0.03	0.2
21.	Boron (as B)	IS: 3025 (P- 57)	ND	mg/l	0.5	1.0
22.	Phenolic Compound (as C ₂ H ₅ OH)	IS: 3025 (P- 43)	ND	mg/l	0.001max.	0.002 max.
23.	Alkalinity(as CaCO ₃)	IS: 3025 (P- 23)	256.0	mg/l	200	600 max.
24.	Sulphide (as H ₂ S)	IS: 3025 (P- 29)	ND	mg/l	0.05	No Relaxation
25.	Nitrite (as NO ₂)	IS: 3025 (P- 34)	ND	mg/l	0.02	No Relaxation

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E-mail: ultraresarchlab@gmail.com

Contd. From report Code W-19112015-02(Page 3 of 3)

Parameters Concerning Toxic Substances:

S.No.	Parameter	Test Method	Results	Units	Acceptable Limit	Permissible Limit in the Absence of Alternate Source
1.	Cadmium (as Cd)	IS-3025(P-41)	<0.001	mg/l	0.003	No Relaxation
2.	Cyanide (as CN)	IS-3025(P-27)	<0.01	mg/l	0.05	No Relaxation
3.	Lead (as Pb)	IS-3025(P-47)	<0.01	mg/l	0.01	No Relaxation
4.	Mercury (as Hg)	IS-3025(P-48)	<0.001	mg/l	0.001	No Relaxation
5.	Arsenic (as As)	IS-3025(P-37)	<0.01	mg/l	0.01	0.05
6.	Total Chromium (as Cr)	Annex J of IS-13428	<0.001	mg/l	0.05	No Relaxation
7.	Molybdenum (as Mo)	IS-3025(P-2)	<0.001	mg/l	0.07	No Relaxation

****End of Report****

Remarks: ND-Not Detectable

Note:

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Website: <http://www.ultralabnoida.com>
E-mail: ultraresarchlab@gmail.com

Noise Report

Report Code N-19112015-05
Issued To

Issue Date: 24/11/2015

: RKM POWERGEN PVT. LTD.
UCCHHPINDA, TEHSIL-DABHARA
DISTRICT-JANJGIR CHAMPA (CHHATISGARH)

Sample Drawn On : 17/11/2015
Sample Drawn By : Mr. Deepak Kumar (UTRL)
Sample Received On : 19/11/2015
Sample Description : Ambient Noise
Sampling Location : Near Village -Kekrabhat
Analysis Duration : 19/11/2015

RESULTS

S. No.	Location	Parameter	Min.	Max.	Leq.	Std. Limit
1	Near Village Kekrabhat (Residential Area)	Noise level(dB)A	42.8	56.3	51.85	55

End of Report

*Standard limits are as per CPCB

Note:

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2. This test report will not be used for any publicity/legal purpose
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Website: <http://www.ultralabnoida.com>

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Noise Report

Report Code N-19112015-03

Issue Date: 24/11/2015

Issued To

: RKM POWERGEN PVT. LTD.
UCCHHPINDA, TEHSIL-DABHARA
DISTRICT-JANJGIR CHAMPA (CHHATISGARH)

Sample Drawn On : 17/11/2015
Sample Drawn By : Mr. Gopal Singh (UTRL)
Sample Received On : 19/11/2015
Sample Description : Ambient Noise
Sampling Location : Near Mechanical Workshop
Analysis Duration : 19/11/2015

RESULTS

S. No.	Location	Parameter	Min.	Max.	Leq.	Std. Limit
1	Near Mechanical Workshop (Industrial Area)	Noise level(dB)A	70.0	73.9	71.55	75

End of Report

*Standard limits are as per CPCB

Note:

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E-mail: ultraresearchlab@gmail.com

Noise Report

Report Code N-19112015-06

Issue Date: 24/11/2015

Issued To

: RKM POWERGEN PVT. LTD.
UCCHHPINDA, TEHSIL-DABHARA
DISTRICT-JANJGIR CHAMPA (CHHATISGARH)

Sample Drawn On : 17/11/2015
Sample Drawn By : Mr. Deepak Kumar (UTRL)
Sample Received On : 19/11/2015
Sample Description : Ambient Noise
Sampling Location : Near Village - Dhurkot
Analysis Duration : 19/11/2015

RESULTS

S. No.	Location	Parameter	Min.	Max.	Leq.	Std. Limit
1	Near Village - Dhurkot (Residential Area)	Noise level(dB)A	47.1	59.3	53.38	55

End of Report

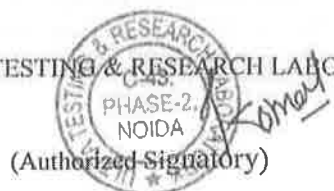
*Standard limits are as per CPCB

Note:

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Website: <http://www.ultralabnoida.com>

E-mail: ultraresearchlab@gmail.com

Noise Report

Report Code N-19112015-01

Issue Date: 24/11/2015

Issued To

: RKM POWERGEN PVT. LTD.
UCCHHPINDA, TEHSIL-DABHARA
DISTRICT-JANJGIR CHAMPA (CHHATISGARH)

Sample Drawn On : 17/11/2015
Sample Drawn By : Mr. Deepak Kumar (UTRL)
Sample Received On : 19/11/2015
Sample Description : Ambient Noise
Sampling Location : Near Admin Office/ Site Office
Analysis Duration : 19/11/2015

RESULTS

S. No.	Location	Parameter	Min.	Max.	Leq.	Std. Limit
1	Near Admin Office/ Site Office (Industrial Area)	Noise level(dB)A	70.1	75.6	73.78	75

End of Report

*Standard limits are as per CPCB

Note:

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2. This test report will not be used for any publicity/legal purpose
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Website: <http://www.ultralabnoida.com>

E-mail: ultrareserchlab@gmail.com

Noise Report

Report Code N-19112015-02

Issue Date: 24/11/2015

Issued To

: RKM POWERGEN PVT. LTD.
UCCHHPINDA, TEHSIL-DABHARA
DISTRICT-JANJGIR CHAMPA (CHHATISGARH)

Sample Drawn On : 17/11/2015
Sample Drawn By : Mr. Gopal Singh (UTRL)
Sample Received On : 19/11/2015
Sample Description : Ambient Noise
Sampling Location : Near Technical Admin Office
Analysis Duration : 19/11/2015

RESULTS

S. No.	Location	Parameter	Min.	Max.	Leq.	Std. Limit
1	Near Technical Admin Office (Industrial Area)	Noise level(dB)A	71.2	76.8	74.16	75

End of Report

*Standard limits are as per CPCB

Note:

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Website: <http://www.ultralabnoida.com>
E-mail: ultraresearchlab@gmail.com

Noise Report

Report Code N-19112015-04
Issued To

Issue Date: 24/11/2015

: RKM POWERGEN PVT. LTD.
UCCHHPINDA, TEHSIL-DABHARA
DISTRICT-JANJGIR CHAMPA (CHHATISGARH)

Sample Drawn On : 17/11/2015
Sample Drawn By : Mr. Deepak Kumar (UTRL)
Sample Received On : 19/11/2015
Sample Description : Ambient Noise
Sampling Location : Near Village KanhaKot
Analysis Duration : 19/11/2015

RESULTS

S. No.	Location	Parameter	Min.	Max.	Leq.	Std. Limit
1	Near Village KanhaKot (Residential Area)	Noise level(dB)A	45.2	57.6	51.26	55

End of Report

*Standard limits are as per CPCB

Note:

- The results given above are related to the tested sample, for various parameters, as observed at the time of sampling. The customer asked for the above tests only.
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For ULTRA TESTING & RESEARCH LABORATORY

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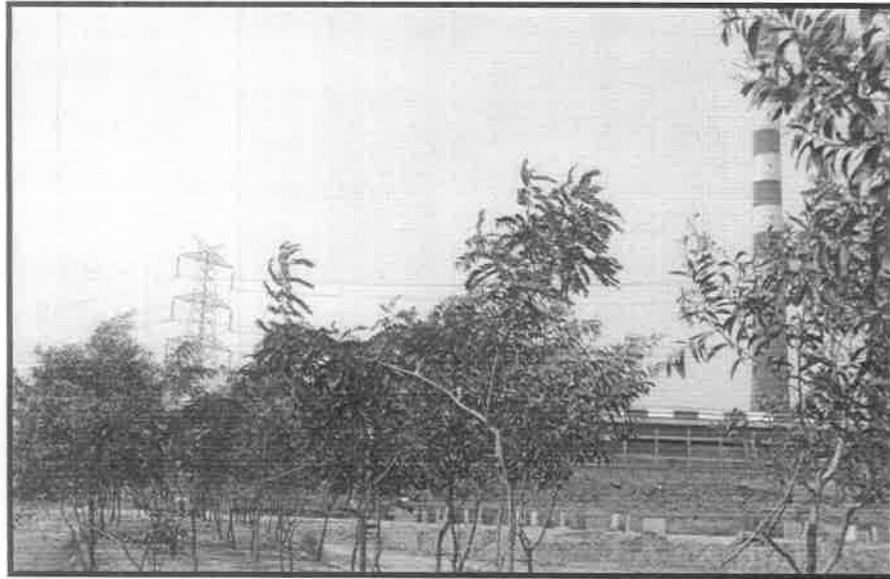


Assuring you of best our services at all times

Site AAQMS 4 Period: 01/11/2015 00:00-30/11/2015 23:00 Type: AVG

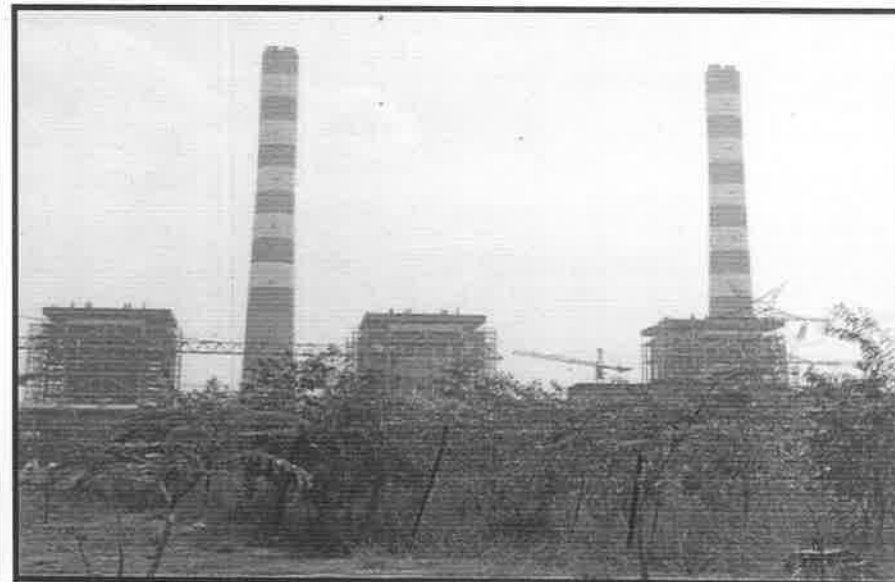
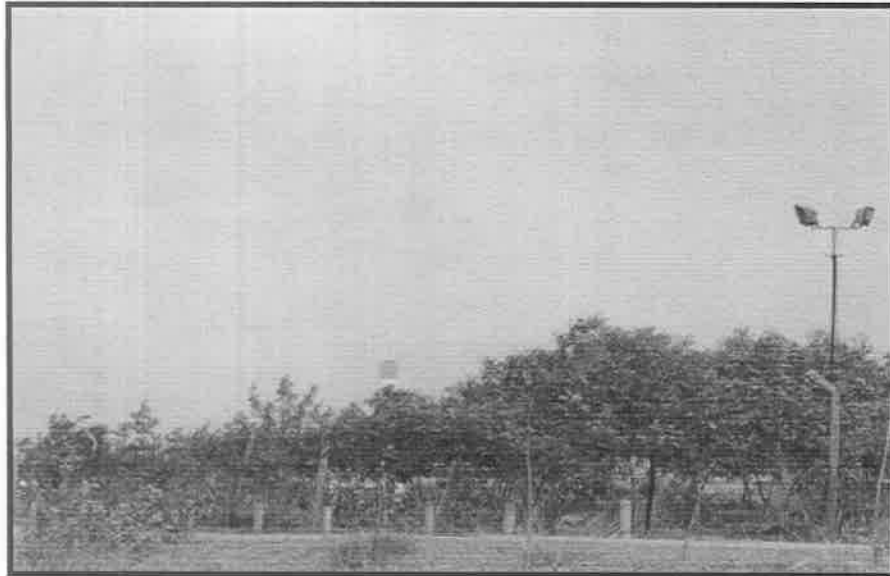
Date	Time	PM10 µg/m3	PM2.5 µg/m3	SO2 µg/m3	NO µg/m3	NO2 µg/m3	NOX µg/m3	CO mg/m3
01/11/2015	00:00	50.9	25.2	15.8	1.4	8.6	10	0.5
02/11/2015	00:00	80.3	29	17.4	2.1	11	13.1	0.6
03/11/2015	00:00	56.8	26.4	20.9	1.6	11.5	13.1	0.9
04/11/2015	00:00	66.5	32.5	14.5	0.8	12.6	13.4	0.1
05/11/2015	00:00	38.4	33.8	14.5	0.9	13.2	14.1	0.3
06/11/2015	00:00	49.7	41.6	14.5	1.1	11.8	12.9	0.4
07-11-2015	00:00	50.9	36.7	14.5	1	13.8	14.8	0.6
08/11/2015	00:00	55.3	20.1	14.5	1.8	9.8	11.6	0.5
09/11/2015	00:00	73.8	18.5	14.5	1.1	10.6	11.7	0.4
10/11/2015	00:00	91.5	22.4	14.5	1.5	14.5	16	0.3
11/11/2015	00:00	46.7	29.1	14.5	1.4	16.6	18	0.3
12/11/2015	00:00	48.9	21.5	14.5	2.5	13.5	16	0.5
13/11/2015	00:00	50.4	38.4	14.5	1.8	14.6	16.4	0.2
14/11/2015	00:00	56.8	35.1	14.5	1.5	15.2	16.7	0.6
15/11/2015	00:00	76.1	26.3	14.5	0.9	17.6	18.5	0.5
16/11/2015	00:00	78.8	23.9	10.5	1.2	14.6	15.8	0.2
17/11/2015	00:00	91.7	30.6	11.1	1.9	20.4	22.3	0.2
18/11/2015	00:00	66.3	27.4	12.3	1.1	20.8	21.9	0.3
19/11/2015	00:00	59.6	16.4	12.6	1.6	18.7	20.3	0.5
20/11/2015	00:00	69.4	22.3	13.1	1.8	24.5	26.3	0.2
21/11/2015	00:00	70.8	40.1	15.6	1.5	17	18.5	0.4
22/11/2015	00:00	83.1	35.7	10.8	1.2	16.8	18	0.4
23/11/2015	00:00	86.7	30.6	16.1	1.3	14.6	15.9	0.7
24/11/2015	00:00	45.2	27.2	15.4	2	18.1	20.1	0.5
25/11/2015	00:00	44.8	25.9	16.1	1.6	17.5	19.1	0.3
26/11/2015	00:00	68.5	33.5	10.5	2.2	15.9	18.1	0.3
27/11/2015	00:00	73.9	39.4	13.7	1.7	11.5	13.2	0.4
28/11/2015	00:00	71.5	32.8	12.4	1.8	12.8	14.6	0.5
29/11/2015	00:00	68.3	28.7	11.9	2.7	11.4	14.1	0.6
30/11/2015	00:00	77.1	26.3	12.3	1.3	14.8	16.1	0.4
Minimum		38.4	16.4	10.5	0.8	8.6	10	0.1
MinDate		05-11-2015 00:00	19-11-2015 00:00	16-11-2015 00:00	04-11-2015 00:00	01-11-2015 00:00	01-11-2015 00:00	04-11-2015 00:00
Maximum		91.7	41.6	20.9	2.7	24.5	26.3	0.9
MaxDate		17-11-2015 00:00	06-11-2015 00:00	03-11-2015 00:00	29-11-2015 00:00	20-11-2015 00:00	20-11-2015 00:00	03-11-2015 00:00
Avg		65.0	29.2	14.1	1.5	14.8	16.4	0.4
Num		30	30	30	30	30	30	30
Data[%]		100	100	100	100	100	100	100
STD		34.7	2.7	52.9	58.8	1.6	58.3	0.2

PLANTATION AROUND PLANT PREMISES



Sanyay

PLANTATION AROUND PLANT PREMISES– Cont...



Sanjay

**R.K.M POWERGEN PVT. LTD. (4X360MW)
YEAR WISE PLANTATION DETAIL**

S No.	Year	No. of Plant has been planted	No. of Survived Plants	Area Within & outside of Plant Premises (Ac.)	Total Cost (Lakhs)	Reoccurring Cost (Lakhs)	Species	Remark
1	2012-13	90000	75000	75	18	5.4	Pelta form, Albizia (Siras), Terminalia (Kahuwa), Dalbergia sissoo (Shisham), Millettia pinnata (Karang), Acacia, Azadirachta indica (Neem), Bottle Pam, Bombax ceiba (Semal), Cassia samiya, Alstonia, Flamboyant (Gulmohar), Saraca Indica (Ashoka), Teak (Indian rosewood), Neolamarckia cadamba (Kadam), Alstonia Scholaris (Satrparni), Leucaena (Shoobabul), Eucalypts (Nilgiri), Pipal, Black plum (Jamun), Psidium guajava Amrood	
2	2013-14	67000	60000	60	14.4	4.32		
3	2014-15	51000	45000	45	10.8	3.24		
4	2015-16	62977	57240	57.1	13.87	4.161		
5	2016-17	22000		22	9.46	2.838		Proposed in monsoon season
Total		270977	237240	259.1	66.53	19.959		

Sanyal

R.K.M. POWERGEN PRIVATE LIMITED

14/21, Haddows Road, Nungambakkar, Chennai - 600 006 INDIA
Tel: 91-44-28228141 / 28287676 Fax: 044 - 28228143 E-mail: rkmpowergen@gmail.com rkmppi@gmail.com
147, Gilanjai Nagar, Avanti Vihar, Sector - 1, Raipur - 492 004 (CG)
Tel: 91-771-4281012 Fax: 0771-4281013, E-mail: rkmraipur@gmail.com, rkmraipur@yahoo.com

RKMPPPL/PROJ/NOC/2007

14.11.2007

The Director,
Directorate of Industries,
Govt. of Chhattisgarh,
RAIPUR.

**Sub. : Submission of Rehabilitation & Resettlement Plan for our proposed
4X350 MW Power Plant in Janjgir Champa Dist.**

Dear Sir,

With reference to the above we are submitting Rehabilitation & Resettlement plan in seven copies for our Proposed 4X350 MW Power Plant in Janjgir Champa district along with all required documents. You are requested to kindly process our proposal for transfer of Govt. land of village Uchhpinda & Bandapali, Taluk - Dabara, Dist. - Janjgir Champa.

Please acknowledge the receipt.

Thanking you,

Yours faithfully,
For **RKM Powergen Pvt. Ltd.,**


Authorised Signatory



Encl. : As above

RKM Powergen Pvt Ltd. Ucchpinda						
CORPORATE SOCIAL RESPONSIBILITY ACTIVITIES						
CSR ACTIVITIES	CSR ACTIVITIES PERFORMED	LOCATION	FINALCIAL YEAR	AMOUNT (₹)	TOTAL AMOUNT (₹)	RECURRING AMOUNT (₹)
Social Work & other	cash in hand for Village Bore well	Nearby vilages	2009-2010	15,00,000.00	15,00,000.00	45,000.00
Infrastructure Development	pond renovation and development of water harvesting area Toilet Near Office Plumbing work	sakti	2010-2011	35,00,000.00 77,290.00	35,77,290.00	1,07,318.70
Infrastructure Development	Constructions of School Boundary wall Near Main Gate, Boundary wall near main gate, Toilet near main gate, Toilet for Ucchpinda village, Renovation of Existing temple at Ucchpinda village, Overhead water tank, school compound wall, Mandir near main gate, Road work at Dhobnipali diversion road, Deeping pond work, School compound wall, Toilet & kitchen renovation at Dhekrhapali, School compound wall at Ghivra, remodelling rsidential quarters, White washing at Kekrabali school, LS & NS labor payment	Ucchpinda, Bandhapali, Dhoblipali, dhekrhapali, Ghivra, Dhabhra, Kekrabali	2011-2012	2,41,17,341.76	2,48,67,341.76	7,46,020.25
Health	Ambulance (Fuel + Driver +Maintenance)			7,50,000.00		
Education	Transportation Fees for Students, Fees for Engineering Study, Cost for sweets during independence day, Fund for National convent school, Travelling Expense For Lok Janshakti party worker			6,38,840.00		-
Health	Cost of Medicine for Villagers, Medical Help, Medical Treatment financial help, Village Emergency Ambulance			8,81,860.00		-
Infrastructure Development	Plastering work, Road Work, Saradhi Village Cement concrete road, repairing of hand pump at ucchpinda village, construction of school at Litaipali & LS, NS labor payment	Ucchpinda, Litaipali	2012-2013	89,22,858.00	1,08,76,766.00	1,78,457.16
Social Work & other	Sewing machine for villagers, Stitching Training, Collector fund Sarpanch/Sachiv Grampanchayat, Stitching Center opening at Ghivra, Color TV, Repairing of Sewing machine, Plantation work, Conducted Cricket tournament, Borewell	Saradi, Givra, Sakrali		4,23,208.00		-
Sports & Cultural Heritage	Nag Panchami puja Contribution, Ramayan Puja in Saradih	Kanakot, Saradi		10,000.00		-
Social Work & other	Contribution to Collector fund Sarpanch/Sachiv Gram panchayat, Flood relief, Plantation work, Borewell pump repairing charge			27,11,150.00		-
Education	School bus transport Service, School uniform kit Distribution, Fees for Engineering study, Transport fees for students, Increase fees for Engineering study		2013-2014	19,36,080.00	2,48,83,163.00	-
Health	Medical Expenses			1,00,780.00		-
Infrastructure Development	Approach Road Construction Dhurkot to Ucchpinda, Saradi Road construction, LS & NS labor payment			2,01,35,153.00		6,04,054.59
Health	Cost of medicine and ambulance service to the villager	Kekarabhate, Bandhapali,Ucchpinda,Dhobnipali ,Dhekrhapali & Ghivra		9,31,548.00		-
Education	Drinking water sources to the School & Arrangement of Scholarships to 3 BE Students for higher Education	Bandhapali & Dekrapali, Ghivra & Dhobnipali, Ghivra & Dhobnipali	2014-2015	2,99,820.00	1,53,05,231.00	1,000.00
Infrastructure Development	Construction of school building Deverghata Canal road construction	Bandhapali		1,29,53,863.00		3,88,615.89
Sports & Cultural Heritage	Sanitation, Provision of drinking water facility to village 2014 -2015 & donation to collectors Jajawalya Dev Lok Mahotsava Samiti	Kekarabhate, Bandhapali,Ucchpinda,Dhobnipali ,Dhekrhapali & Ghivra, collectors Fund Jajawalya Dev Lok Mahotsava		11,20,000.00		2,000.00
Health	Health Check-up by Medical & Paramedical Staffs. Free Medicine distribution. Health awareness & Counselling. Hospital facility at Company Hospital. Emergency Ambulance Facility. Hand Wash Program Health camps in schools, Blood Donation Camp	Ucchpinda,Bandhapali,Dekrapali,Ghivra, Kekrabhat & Dobhnipali, Nearby Villages & Various Hospitals.Govt.Schools - Ucchpinda,Bandhapali,Dekrapali, Kekrabhat,Dobhnipali & Ghivra.Occupational Health Centre at RKM		1,90,238.00		

Abhyas

Sanyal



RKM Powergen Pvt Ltd. Ucchpinda
CORPORATE SOCIAL RESPONSIBILITY ACTIVITIES

CSR ACTIVITIES	CSR ACTIVITIES PERFORMED	LOCATION	FINALCIAL YEAR	AMOUNT (₹)	TOTAL AMOUNT (₹)	RECURRING AMOUNT (₹)
Education	Pipe Provided for hosting Flag - 01No's, Plantation inside school campus, Pipe provided for "Kho-Kho game" - 04 No's, Sweet distribution in schools on Independence Day. Inter-School Quiz Competition. Sweet distribution in schools on Republic Day. Inter-School Sports Competition	Govt. Middle School - Kekrabhat, Govt. Schools - Uchpinda, Bandhapali, Dekrapali, Kekarabhat, Dobnipali, Ghivra & Kanakot, Govt. Middle School - Kekarabhat, Govt. Schools - Uchpinda, Bandhapali, Dekrapali, Kekarabhat, Dobnipali, Ghivra & Kanakot, Govt. Middle School - Bandhapali, Kekarabhat, Ghivra & Kanakot, Govt. Schools - Uchpinda, Bandhapali, Dekrapali, Kekarabhat, Dobnipali, Ghivra & Kanakot, Govt. Schools - Uchpinda, Bandhapali, Dekrapali, Kekarabhat, Dobnipali, Ghivra & Kanakot	2015-2016	63,945.00	8,09,632.00	
Sustainable Livelihood	Vocational training (Mushroom Cultivation)	At company Training Hall		10,000.00		
Infrastructure Development	Construction of stairs (Pachari Nirman) at Saradih Village in Mahanadi river. Stone provided for Stair (Pachari Nirman) in Chandan Pond. Submersible Pump repairing work. Plastic container provided for Mid day Meal storage purpose. Drinking water pipeline connection at Primary School. Playground leveling work , Wall & Display painting work	Village- Saradih (Dabhara Block) Village - Kekarabhat Village - Bandhapali Govt. Schools-Uchpinda, Bandhapali, Dekrapali, Kekarabhat, Dobnipali, Ghivra, Kanakot & Anganwadi Bhawan Primary School - Dekrapali Middle School - Kekarabhat		3,30,145.00		9,904.35
Sports & Cultural Heritage	Assistance in Nagpanchmi Festival, Inter-Village Cricket tournament. Assistance in Durga Pooja. Assistance in Guru Ghasidas Jayanti	Village - Kanakot, 21 Groups (samities) of different Villages, Uchpinda, Bandhapali, Dekrapali, Kekarabhat, Dobnipali, Ghivra & Kanakot, Uchpinda, Bandhapali, Dekrapali, Kekarabhat, Dobnipali & Kanakot, Villages of Dabhara Block		2,15,304.00		

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Sangay



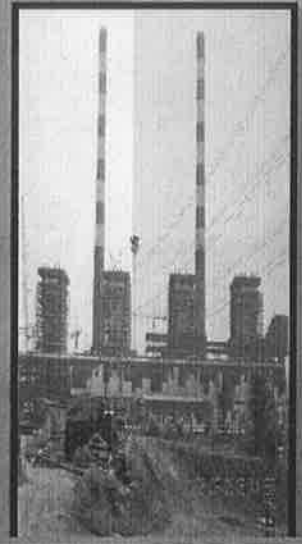
M/S R.K.M POWERGEN PRIVATE LIMITED

4x360 MW

**CORPORATE SOCIAL
RESPONSIBILITY**

CSR WORK

OCTOBER, 2015 TO MARCH, 2016



Health

Education

**Infrastructure
Development**

**Self
Empowerment**



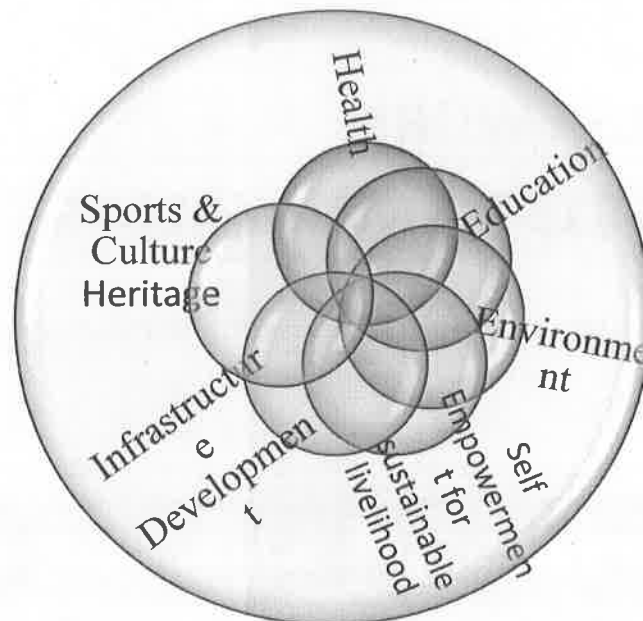
1. INTRODUCTION

The company is a joint venture of M/s R.K. Powergen Private Limited, a leading Private Power generating Company and M/s Mudajaya Corporation Berhad, a listed company with its Corporate Office at Kuala Lumpur, Malaysia. Both M/s Mudajaya Corporation and M/s R.K. Powergen Private Limited jointly formed a company for the purpose of Generation of Power in the name of M/s R.K.M Powergen Private Limited.

2. OBJECTIVES

The Objective of CSR to holistic improvement of nearby village society all around our plant. We are working on five focus areas **Health, Education, Infrastructure, “Self Empowerment for sustainable livelihood” and Sport & Culture Heritage**. In nutshell overall development of nearby locality of plant.

THE CSR APPROACH



3. VISION

To organise and assist the activities for the **Health, Education, Infrastructure, “Self Empowerment for sustainable livelihood” and Sport & Culture Heritage** of the villages in which we operate through our services. To conduct and initiatives with Environmental concern also. In so doing to build a better sustainable way of life for the weaker section of society.

4. COMMUNITY HEALTH

The objective of this initiative was to provide free medical check-up and healthcare facilities to the community people. R.K.M Powergen Pvt. Ltd. has brought pivotal improvisation to the Community Medical Centres for providing ample health care services to the neighbouring villages by our expert medical and paramedical team.

The health camp received an overwhelming response by the community and it benefited a large number of villagers and children's.

- Medical health camps
- Child/ student health care
- Awareness

CSR Activities Performed	Location	Date	No. Beneficiary
Heath Check-up by Medical & Paramedical Staffs. Free Medicine distribution, Heath awareness & Counselling Emergency Ambulance Facility Hospital facility at company Hospital.	Village: Ghiwra, Dhobnipali, Uchchapinda, Bandhapali, Kekrabhata etc.	8.06.2015 to till going on	463 -Villagers

Health camp in village - Ghiwra



Health camp in village - Dobhnipali



Health Camp in Uchpinda



Health Camps in Bandhapali



5. EDUCATION

The literacy is the key factor to ensure sustainable Economic Empowerment. Our CSR Team is committed to contribute by taking initiatives and plans to improve the children education quality system around the plant.

- Encouragement to ensure children attends school regularly.
- Importance and benefits of education.

CSR Activities Performed	Location	Date	No. Beneficiary
Plantation inside school campus	Village: Ghiwra(2), Kekrabhata(2), Khannhakot(2), Devarghitta, Domarpali	29.06.15 to 5.08.15	8 - Schools
Interschool Quiz Competition – Junior Level (Class 6 To 8th)	BANDHAPALI MIDDLE SCHOOL KEKRABHAT MIDDLE SCHOOL GHIVRA MIDDLE SCHOOL	05.11.2015	3 - Schools
Sweet distribution in schools on Aug.2015	Ghiwra, Kekrabhata, Khannhakot, Devarghitta, Ucchapinda	5.08.2015	1223- Students, Teachers



Plantation in Kanakot Primary School



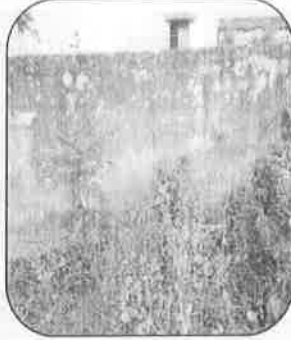
Plantation in Kanakot Middle School



Plantation in Ghiwra Middle School



Plantation at Anganwadi Bhawan village - Ghivra



Plantation at Anganwadi Bhawan village - Ghivra



Sweets distribution on the occasion of independence Day



Govt. Middle School - Ghivra

Sweets distribution on the occasion of independence Day



Govt. Primary School - Ghivra

6. SELF EMPOWERMENT

CSR Team is taking various initiatives to empower the farmers, women's, unemployed youths and make them self dependent. Formation of Self Help Groups for women empowerment and Youth Club for village youth.

- Vocational training
- Agriculture development and better farmer focus
- Partnership with industrial training institutes
- Skill up-gradation of youth and women and promoting income generation activities

CSR Activities Performed	Location	Date	No. Beneficiary
Vocational training (Mushroom Cultivation)	At company Traing Hall	06.06.2015	53- Females

Stone provided for Pachari Nirmar	Vill. Kekrabhata	15.05.2015	1084- Villagers
Plastic container given in school for raw mid mil storage	Ghiwra, Kekrabhata, Khannhakot, Bandhapali	22.07.2015	7 - Schooles (20 Containers)
Fire Brigade Facility	For All People		For villagers
4 GI Pipe provided for "Khokho game"	Vill. Kekrabhata School	14.08.2015	55 Students
Playground levelling work.	Middle School - Kekrabhat	24.09.2015	55 Students



Construction of stairs in Chandan pond at village Kekrabhat.



20 Trips of stone was provided for this Construction work

Borewell Repairing at village Bandhapali



Constructions of stairs in Mahanadi River at Saradih.



Darilal Yadav(Sarpanch) from Saradih was given the contract for this constructions work .

Drinking water pipeline connection in Primary School.



VILLEGE - DEKRAPALI



Drinking water pipeline connection in Primary School.



Drinking water connection was provided at Primary school in Dekrapali village from the nearest Borewell connection which is around 60 mtr away from the school compound. GI pipes and others necessary material was provided to the school along with plumber team to take care of this work.

8. SPORTS & CULTURAL HERITAGE

Organising this abundant source of energy to add value to the development of communities is a priority. The youth clubs formed in each of the village act as a bridge between community expectations and facilitate the process of creating happy communities. Sports are a way of life, indoor and outdoor activities are encouraged. RKM Powerge Pvt. Ltd. Organising the Dashara Utsav for surrounding villages near the temple yard (Devgun Guru Mandir) at village Ucchpinda.

CSR Activities Performed	Location	Date	Beneficiary
Contribution on Occasion of Nagpanchmi Festival	Khanakot	17.08.2015	Villagers
Contribution on Occasion of Durga Puja	21 villages	16.10.2015	Villagers

9. CARING FOR THE ENVIRONMENT

We understand our responsibility towards our environment and the natural habitat. We recognize the challenges faced by our industry, be it with regard to climate change or energy consumption. Our approach is to nurture innovation to tackle these challenges.

Conclusion:


The Corporate Social Responsibility concept considers the **Health, Education, Infrastructure, “Self Empowerment for sustainable livelihood” and Sport & Culture Heritage**. The organization make the CSR approach as their mainstream trend and apparatus for gaining reputation of the organization as well as extending for the up liftment of the nearby villages society which leads to sustainable smooth running of plant.RKM Powergen Pvt. Ltd.




R. K. M POWERGEN PVT. LTD. (4X360 MW) , UCCHPINDA

Annexure - XIV

Work Place Noise Monitoring in dB(A)																			
S.N.	Location	Oct-15			Nov-15			Dec-15			Jan-16			Feb-16			Mar-16		
		Min.	Max.	Leq.	Min.	Max.	Leq.	Min.	Max.	Leq.	Min.	Max.	Leq.	Min.	Max.	Leq.	Min.	Max.	Leq.
1	ESP Area	52.6	61.3	58.2	81.8	83.5	82.5	58.3	63.1	61.3	50.6	55.8	53.9	78.6	83.9	81.4	57.2	64.4	61.7
2	ID Fan	49.3	53.5	51.6	79.9	81.3	80.1	57.9	64.3	62.1	53.4	57.9	55.5	79.4	84.3	82.2	52.6	63.2	60.1
3	FD Fan	53.7	64.1	60.9	81.4	84.6	83	61.0	66.1	64.3	53.6	61.2	58.1	77.9	83.5	82.1	53.5	58.4	56.5
4	Turbine Hall	48.2	57.1	54.8	82.3	84.3	83.5	59.1	62.3	61.0	56.2	60.7	58.9	83.6	84.1	83.7	52.6	59.1	56.3
5	Control Room	51.2	59.3	56.2	59.2	63.7	61.9	52.3	55.4	54.1	53.4	58.5	56.5	58.3	62.1	61.0	52.0	54.2	53.4
6	Cooling Tower Area	48.3	55.9	53.2	78.6	84.1	82.2	54.1	58.9	56.3	68.3	71.4	70	77.5	80.3	79.3	48.3	57.3	54.5
7	CHP Area	50.3	62.1	58.1	66.8	74.2	71.6	58.9	62.8	61.3	50.1	55.3	53.7	68.4	72.7	70.9	51.7	56	54.2
8	Boiler Area	53.2	63.3	59.8	82	84.4	83.2	60.3	72.1	68.4	58.6	68.3	65.0	81.3	84.2	82.9	55.1	58.3	56.9
9	Compressor Room	58.3	66.1	63.1	80.3	83.2	82.1	53.4	56.8	55.0	68.6	75.2	73.3	78.3	82.4	80.7	53.9	56.7	55.4
10	Fly ash silo Area	48.1	53.3	51.5	52.3	59.2	56.6	46.1	50.2	48.5	46.7	51.2	49.4	58.7	60.2	59.4	48.6	51.5	49.9
Ambient Noise Monitoring in dB(A)																			
1	Hostel Block	48.3	56.9	53.5	46.3	54.2	50.7	41.3	50.5	47.2	43.3	53.6	50.2	48.4	53.1	51.5	43.6	48.5	46.6
2	Site office	52.3	62.1	59.3	50.7	53.9	52.3	54.1	58.7	56.8	56.1	68.3	64.4	50.1	54.6	53	53.3	62.1	58.9
3	HR Office	48.1	56.3	53.1	44.8	51.2	48.8	57.3	61.4	59.5	50.2	61.5	58.2	43.8	50.9	48.5	54.8	59.1	57.5
4	Gate No. 3	46.3	51.5	48.6	48.8	54.8	52	51.6	55.3	53.8	44.8	52.0	49.5	51.2	53.7	52.7	47.3	54.2	51.6
Buffer Zone (Residential Area) Noise Monitoring in dB(A)																			
1	Village - Bandhapali	45.3	53.1	50.6	46.3	51.2	49.4	44.1	56.3	52.1	44.8	50.7	47.9	44.1	49.2	46.7	43.6	53.3	49.4
2	Village - Ghiwra	43.4	52.7	49.4	43.6	53.1	49.6	41.5	43.1	42.6	42.3	48.1	46.2	40.3	46.1	44.3	44.1	49.2	47.9
3	Village - Kanhakoot	47.2	53.4	51.1	44.8	52.6	48.9	38.6	47.2	44.6	41.9	47.4	45.1	45.7	52.4	50.1	45.3	52.8	50
4	Village - Dhobnipali	44.5	51.3	49.1	46.8	49.3	48.1	40.8	46.9	44.5	43.5	51.6	49	43.8	51.3	48.7	42.8	47.5	45.7


Environment Officer.

Dy. Manager Environment


R.K.M POWERGEN PVT. LTD.

No. 14, Dr. Girappa Road, T Nagar, Chennai - 600 017 INDIA
Tel: 044 66291000 Fax: 044 28158243 / 66291100 Email: rkmpowergen@gmail.com
CIN No:U40101TN2004PTC054931

Ref. No. RKMPPL/2016-17/ 713

Date: 06.05.2016

To
The Member Secretary
Chhattisgarh Environment Conservation Board
Kabir Nagar, Raipur, Chhattisgarh.

Sub: - Submission of ID & Password for Continuous Emission Monitoring Systems (CEMS), Continuous Ambient Air Quality Monitoring Station (CAAQMS) and On-line Effluent Monitoring.

Respected Sir,

we would like to inform you that Continuous Emission Monitoring Systems (CEMS) for measurement of parameters PM, SO2 & NOx have been installed in both stacks of Unit-I & II (2x360MW) and four Continuous Ambient Air Quality Monitoring Station (CAAQMS) for measurement of parameters PM10, PM2.5, SO2, NOx & CO have been installed. All monitored parameters are displaying at Head office portal, Raipur.

Our Website link is www.rkmparameters.in, id **rkm** and password **rkm**.

We are submitting the id and password for your kind information and record please.

Thanking you,

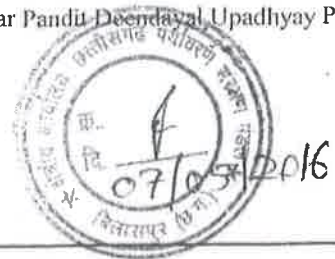
Yours faithfully,
For R.K.M Powergen Pvt. Ltd.

S.N. Pandey
06/5/16

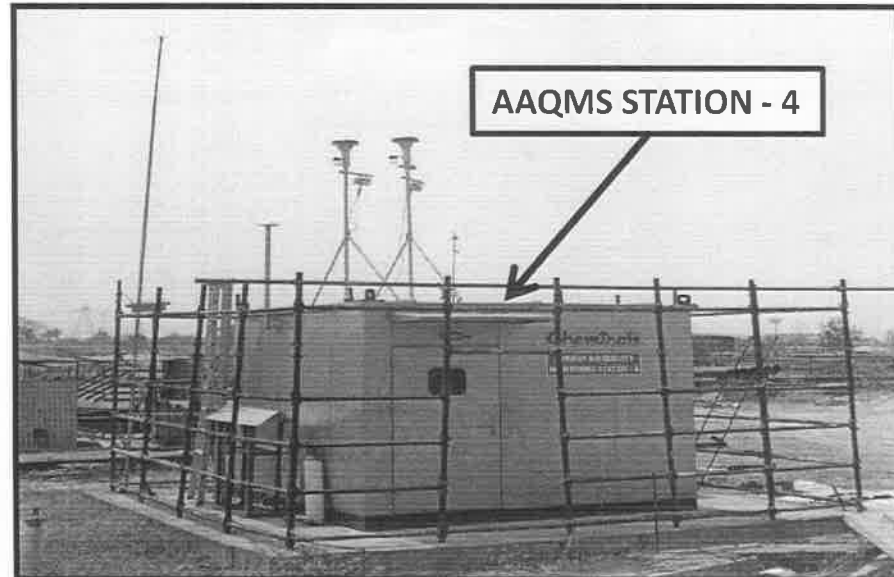
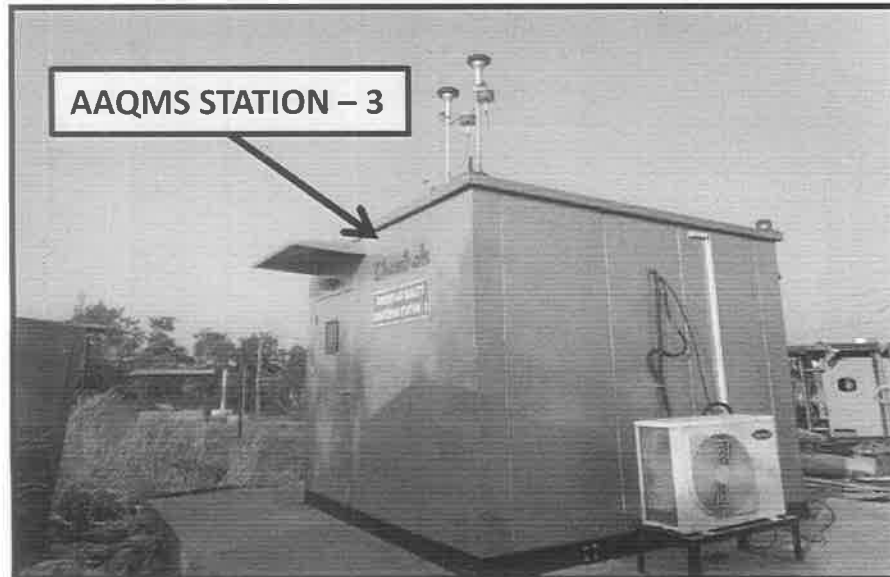
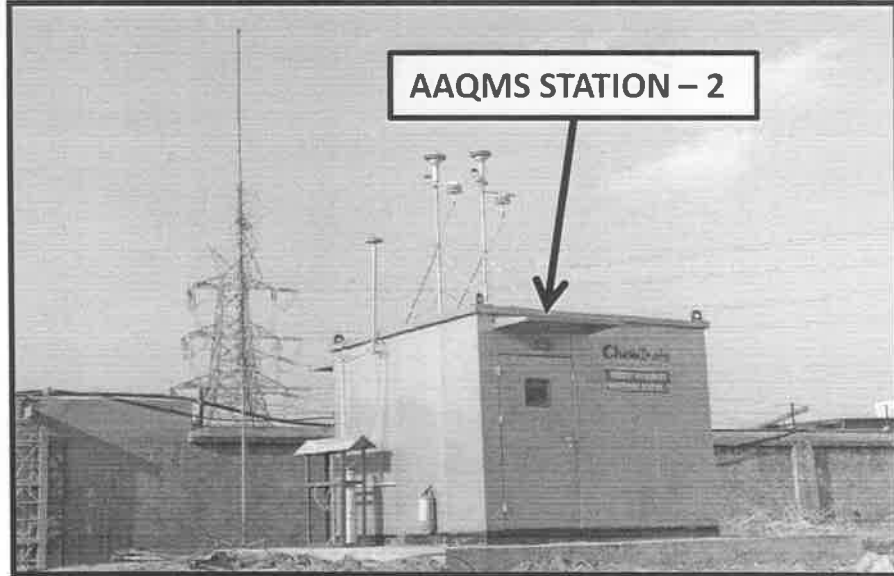
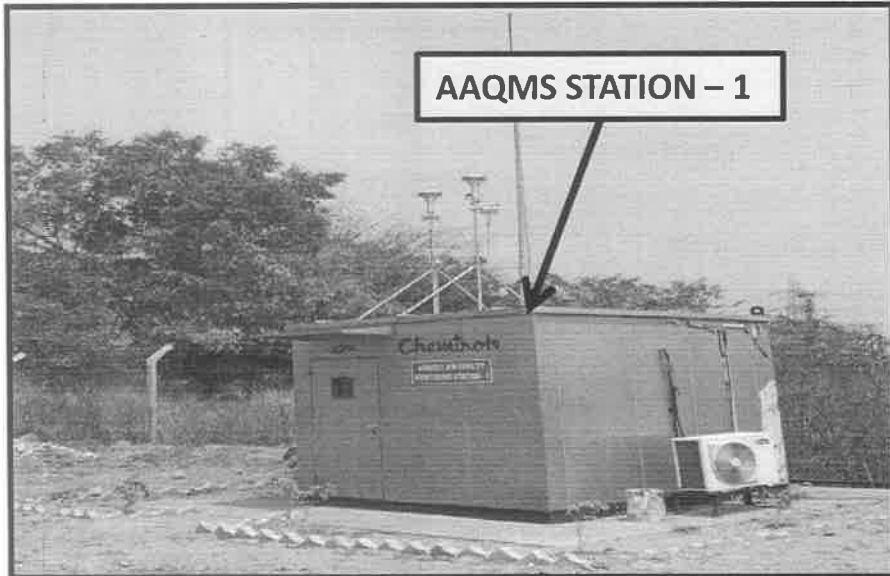
S.N. Pandey
Director



Copy To: Regional Office Bilaspur, Vyapar Vihar, Near Pandu Deendayal Upadhyay Park, Bilaspur (C.G.)

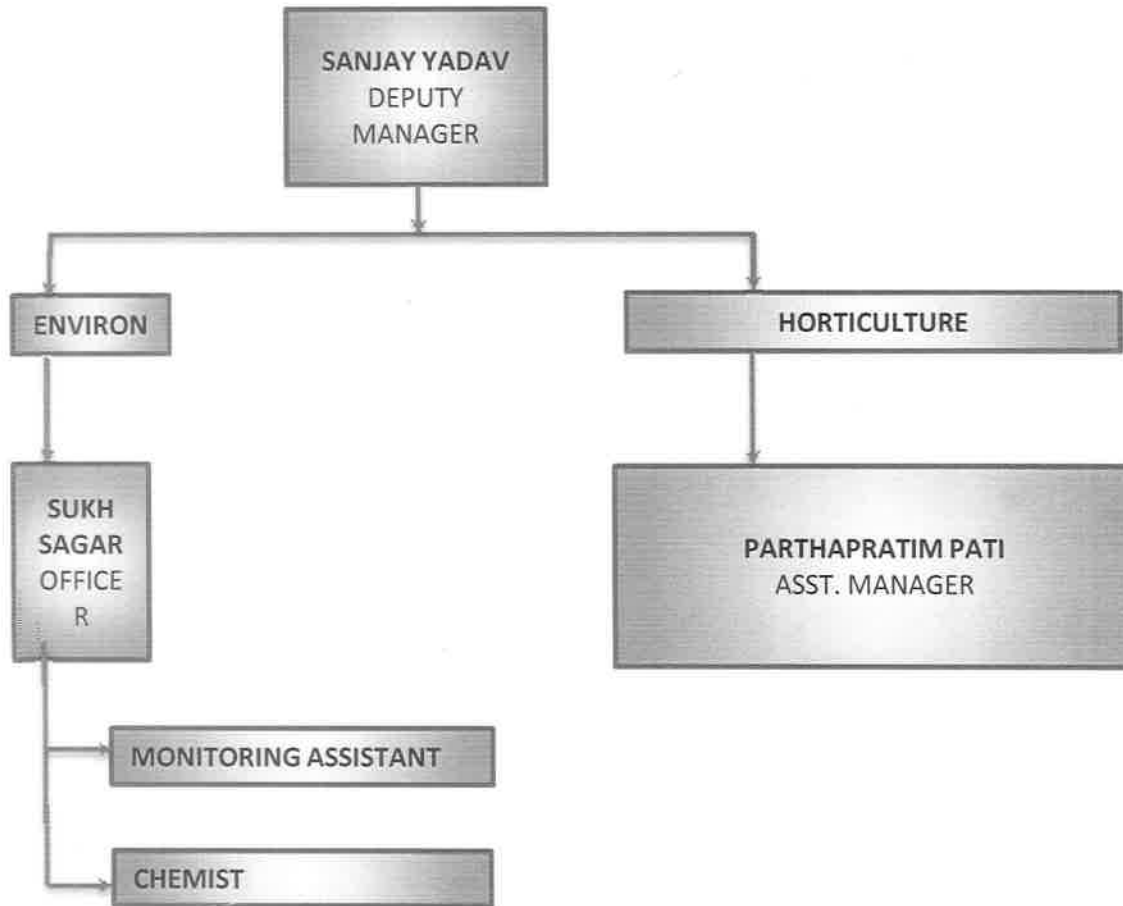


CONTINUOUS AMBIENT AIR QUALITY MONITORING STATIONS



Sanyal

ORGANISATIONAL CHART FOR ENVIRONMENT CELL



Sanjay



छत्तीसगढ़ CHHATTISGARH

F 729063

Agreement form - 7 A attached

R.K.M POWERGEN PVT. LTD.

POWER OF ATTORNEY
[Signature]
POWER OF ATTORNEY
R.K.M POWERGEN PVT. LTD.

[Signature]
2/12
Executive Engineer
Water Resources Survey & Barrage
Construction Division No. 1
Kanker, Dist-Jaipur (C.G.)

AGREEMENT FORM FOR SUPPLY OF WATER TO M/S. R.K.M.
POWERGEN PRIVATE LIMITED JANJGIR-CHAMPA

Form - 7A
(See Rule 71-A)

This agreement made on this day..... day of between the Governor of Chhattisgarh, acting through Executive Engineer Water Resources Survey & Barrage Construction Division No. 1, Kharsia, Raigarh (C.G.) Water Resources Department [here in after referred to as (C.G. WATER RESOURCES DEPARTMENT)] which expression shall where the context so admits, include his successors assigned in office of the first part and M/S R.K.M. Powergen Private Limited Janjgir-Champa Registered under the Indian companies Act. 1955 (No. 1 of 1956) constituted under Company Act. 1956 and having its registered Office at No: 14, Dr. Giriappa Road, T. Nagar, Chennai-600017. (hereinafter referred to as "the Company") Which expression shall unless excluded by or be repugnant to context meaning there of be deemed to include its successors assigned of the other part.

Whereas the company has applied to the Government for permission to draw 933333 Cum of water per month from the Mahanadi River (here in after refer to as "The said Government water source") for the use by the 4 X 360MW Coal based Thermal Power Plant located Village: Uechpinda, Tehsil: Dabhara, Dist. Janjgir-Champa, Chhattisgarh (hereinafter referred to as "the said Plant") and laying underground and surface pipes and drains for discharge of the factory effluent.

And whereas the Government has agreed to grant the aforesaid permission to the Company to use water from the said Government source at their own cost on the terms and conditions hereafter appearing.

And whereas prior to the execution of these presents the company has deposited with the Government, the sum of **Rs. 294.00 Lakhs (Rs. Two crores, ninety four lakhs only)** being the water rates and local fund cess for the quantity of water to be drawn by the company in three months.

And whereas it has been agreed that the said sum of **Rs. 294.00 Lakhs (Rs. Two crores, ninety four lakhs only)** will not bear any interest.

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R.K.M. POWERGEN PVT. LTD.

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P. G. S. S. P.
4/12
Executive Engineer
Water Resources Survey & Barrage
Construction Division No. 1
Kharsia, Dist. Raigarh (C.G.)

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Now, this Agreement witness as under :-

- (1) In Consideration of the company duly making payment to the Government as here in after specified and duly observing and performing the covenants and conditions, both herein contained Government hereby give permission to the company to draw **933333 Cum** of water per month from the said government water source to the company's said plant for period up to completion and water storage in the Saradih Barrage from the day of 20..... on the terms and conditions herein contained. The permission hereby granted shall be subject to the provisions of Chhattisgarh Irrigation Act. 1931 (3 of 1931) and any executive orders issued in this behalf by the Government from time to time and for the time being in force.
- (2) The company shall pay to the Government water rates for Water drawn by it from said Government water source at the rates fixed by Water Resources Department no. 3843/3844/7-A/जसं./तशा/औजप्र/02/डी-4 रायपुर, दिनांक 31.05.2010 and 2182/2183/7-ए/ज.सं./तशा/औजप्र/01/डी-4 रायपुर, दिनांक 25.04.2015, which is **Rs. 10.50 (Rupees Ten & fifty paisa only)** per cum.

Note : The rates which are going to apply to the company must be shown and not other rates. For the quantities of water drawn in excess of the agreed quantities and for any other unauthorised draws of water then 50 % (Fifty percent) additional rates shall be charged in addition to the normal rates as specified above.

In addition to the payment of water rates as specified above, the company shall also pay the Water Resources Department local fund cess or any other tax at the rates as fixed by the Government from time to time Government hereby reserve the right to revise the rates from time to time the said water rates and the local cess or other taxes to be paid by the company and the company shall pay such revised water rates and local cess or other taxes as may be fixed by the Government from time to time. Excepting the circumstances or short water supply specified in clause (15) the company shall in any event pay water charges for at least 90% of the total quantum of water allowed to be drawn by it though the actual quantity of water drawn by the company is less than 90% of the quantum of water allowed to be drawn by under clause (1).

- (3) The company shall make its own arrangements at its own cost to use water either by construction of any civil engineering work which may include construction of pick up weir, barrage, dam dug well, tube well etc. The design of such civil engineering facility will be prepared and submitted by the company for approval of the water resources Department. The Concerning Chief Engineer will give his decision within thirty days to the State Water Utilization Committee. The decision of State Water Utilization Committee shall be final.

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WALKER POWERGEN PVT. LTD.

[Signature]

[Signature]
Executive Engineer
Water Resources Survey & Barrage
Saradih Barrage No. 1

[Signature]

- (4) In the event of any emergency interruption in the water supply to the said Government water sources resulting from a non Government Act (such as sudden reduction in flow) the Executive Engineer Shall give immediate written notice to the Company. Upon receipt of such notice the company shall have no right to be compensated for any cessation in water supply nor will the company have any liability for payments for water charges. Local fund cess or taxes except those amounts than due but unpaid. Until such time as the flow of water through the said natural water sources shall be restored to the level required to be provided by the government hereunder.
- (5) Subject to the terms and conditions of this agreement nothing herein contained shall be deemed to imply any guarantee on the part of the government the uninterruptedability in the supply of water during an event of Force Majeure. The Government shall also not be responsible for such non-supply or inadequate supply of water as a result of any event of Force Majeure or for damages or losses due to any event of Force Majeure. During an event of Force Majeure the company shall not be liable for payment of any water charges local fund cess or other taxes except those pertaining to water already received by the company for which payment is due and unpaid, which amount shall remain due any payable in accordance with the terms of this agreement. Force Majeure shall include droughts and other similar natural disasters, which are beyond the control of State Government.
- (6) The Company shall pay adequate compensation to any person/persons affected due to submergence of land property, public facilities etc. by the construction of the civil engineering works for creating the sources of water supply.
- (7) The water from Government water sources shall be used by the Company for the purposes of the Company's said plant including water supply to the colony and shall not be misused by the company by sale of water to any other consumer in the event of any such sale of water by the Company without prejudice to Government's rights to revoke this license and the Government shall he entitled to recover from the Company, the proceeds of such sale of water realised by the Company.
- (8) The permission hereby granted shall not in any manner prejudicially effect the existing water rights vested in the upstream riparian owners nor shall it in any way prejudice Government's rights to hereafter launch or implement any new scheme or schemes of its own act, on or in connection with the present source of the said Government water source. However Government of Chhattisgarh hereby assure that any other water rights

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TRIGM POWERGEN PVT. LTD.

Mr. D. C. ...

Saradih
4/12
Executive Engineer
Water Resources Survey & Barrage
Saradih Barrage, Bilaspur No. 1

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granted by them for the purpose of irrigation or any other industrial purpose shall be granted in a manner so as not to affect the availability of required water for the project through out the terms of this agreement.

- (9) The company shall not construct the civil engineering work viz pick-up weir, barrage, reservoir, dam, dug well, tube well and lifting arrangements etc. in the said water source unless the proposals, plant drawings, specifications estimates and all other details there of are previously submitted to and approved in writing by an officer authorized in that behalf by the Government and while granting its approval to the construction of the civil Engineering work pick up weir, barrage, lifting arrangement etc. Government may impose such condition as it may in its absolute discretion think fit.
- (10) The arrangements for measurement of water drawn by the company from said water source shall be made by the company in such a manner as may be directed by the Government or Executive Engineer Water Resources Survey & Barrage Construction Division No. 1, Kharsia, Raigarh (C.G.) (herein after referred to as the Executive Engineer, The automatic measuring device shall be installed & maintained by the company at its own cost after obtaining prior approval therein writing from the Government or the Executive Engineer. In the event of measuring device so installed by the company as aforesaid, ceases to function or goes out of order. The charges which the company would be liable to pay to government in respect of consumption of water for the days measuring device does not work shall be calculated alternatively on the basis of maximum hourly pumping capacity multiplied by the number of hours of operation of those pumps for which it will be obligatory for the company to maintain records.
- (11) The company shall treat affluent (Discharge of water after use) for all the impurities ferrous and other chemicals and shall appropriately purify the water as per Chhattisgarh Government Environmental Conversation Board and Central Government Public Health Environmental Engineering Organisation water supply manual, which specifies the standard of potable water.
- (12) Within thirty days from the date monthly demands are received by the company from Executive Engineer . The company shall pay to the Executive Engineer the amount of water rates and local fund cess for the water drawn by the company during the proceeding month. Interest at the rate of 24% (twenty four Percent) and service charges at the rate of 1% (one percent) shall be recovered if the payment is not done within three

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SALIM POWERGEN PVT. LTD.

Asim Kumar
POWER OF ATTORNEY

Sanku
11/12
Executive Engineer
Water Resources Survey & Barrage
Construction Division No. 1

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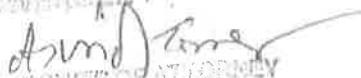
months from the date of the bill for water supplied. Non payment of the bills up to six months from the due date of payment shall be treated as the breach of the agreement.

- (13) The company shall always keep deposited with the Executive Engineer the said sum of **Rs. 294.00 Lakhs (Rs. Two crores, ninety four lakhs only)** (Three times of assessed monthly bill) as security for due and proper payment of the water rate and local fund cess and irrigation dues and due observance and performance of the terms and condition herein. In the event of failure by the company to duly pay the aforesaid dues, the outstanding dues from the company shall be adjusted against the said deposit on default of the company to punctually pay the water rates and local fund cess as aforesaid the Government shall without prejudice to its any other rights and remedies be entitled to terminate this agreement forthwith.
- (14) Without prejudice to any other, it's remedies and powers of the Government any sum due and payable by the company under these presents shall be recoverable from the company in the same manner as an arrear of the land revenue under the provisions of law for the time being in force in that behalf.
- (15) In the event of there being a shortage of water in the said Government water sources , the Executive Engineer shall serve a notice on the company explaining the possibility of the anticipated shortage. The company shall in such circumstances reduce the consumption of water and will furnish to the Executive Engineer, a weekly return showing the actual quantum of water drawn by it.
- (16) No existing irrigation interest under the river, spring channels and irrigation wells shall be prejudiced if in the opinion of the government such existing interests are prejudiced. The company shall pay such compensation to the concerned person or persons whose interests are affected as may be determined by the government.
- (17) The company shall at all times allow an officer of Water Resources Department of the Government of Chhattisgarh authorized in that behalf to inspect the measuring device as well as the water accounts and furnish to the Government copies of entries from the records maintained by the company .

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INDIAN POWERGEN PVT. LTD.


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24/12
Executive Engineer
Water Resources Survey & Barrage
Construction Division No. 1
Saradih Barrage, Raipur, C.G.

- (18) Any notice or other documents to be given to or served upon the company there under, may be given or served on behalf of the Government by the Executive Engineer and any such notice or documents shall be deemed to have been duly given to or served upon the company if it is sent by registered post or delivered at the registered office of the company.
- (19) If the company commits a breach of any of the terms and conditions hereof, Government shall be entitled to terminate this agreement and there upon the company shall discontinue to draw water from the said government water source without Government being liable for payment of any compensation whatsoever to the company.
- (20) On the expiry of terms of this agreement, Government may renew this agreement for such further period and on such terms and condition as the Government may in its absolute discretion deem fit.
- (21) The cost and incidental charges incurred in the execution of the agreement including stamp duty shall be borne and paid by the company
- (22) Govt. of Chhattisgarh Water Resources Department order No. 895/एफ 4-13/एस-2/31 /औजप्र/06, रायपुर दिनांक 13.02.2015. (for water allocation and executive instructions etc.) will also form the part of this agreement.

(23) SETTLEMENT OF DISPUTES:

- a) **Mutual discussion:** - The parties to this agreement agree that all disputes touching upon or arising out of this agreement including interpretation of any clauses of this agreement, the respective rights and obligation of the parties or non-performance of obligation on the part of any party shall be amicably resolved by mutual negotiations.
- b) **Arbitration:-** If after sixty days from the commencement of such negotiations, the parties have been unable to resolve amicably a dispute, such dispute or difference shall be referred to Arbitration under the provision of the Arbitration and Conciliation Act 1996. The award of the arbitration panel shall be final and binding on the parties.

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POWER ENGINEERS PVT. LTD.

Asim Kumar

Saradih
Executive Engineer
Water Resources Bureau & Barrage
Construction Division No. 1
Raipur, Chhattisgarh (C.G.)

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(24) SPECIAL CONDITIONS (IF ANY) :

As enclosed as per prevailing condition.

IN WITNESS WHERE OF, _____ Executive Engineer Water Resources Survey & Barrage Construction Division No. 1, Kharsia, Raigarh (C.G.) has for and on behalf of the Governor of Chhattisgarh here to set his hand and affixed the seal of the office and common seal of the EXECUTIVE ENGINEER has been here up to affixed on the day Year first herein above written.

SIGNED

Sanjay
4/12
Executive Engineer
Water Resources Survey & Barrage
Construction Division No. 1
Kharsia, Dist. Raigarh (C.G.)

DELIVERED

(.....)by
Executive Engineer Water Resources Survey & Barrage Construction Division No. 1, Kharsia, Raigarh (C.G.) for and on behalf on the Governor of Chhattisgarh in the presence of

1.
Sub-Divisional Officer
W/R Survey & Barrage Constn.
Sub-Div. No. 2, Kharsia, Dist. Raigarh (C.G.)

2.
4/12/15

(The common Seal of M/S. R.K.M. POWERGEN PRIVATE LIMITED JANJGIR-CHAMPA was pursuant to the resolution of the board of Directors of the Company dated the And Directors of the company who in token thereof have to set their respective hand in presence of)

Witness:

(1) *Sanjay* *Sanjay*

(2) *साधु शंकर*

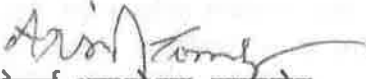
Sanjay

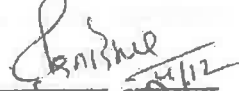
Sanjay
4/12
Executive Engineer
Water Resources Survey & Barrage
Construction Division No. 1
Kharsia, Dist. Raigarh (C.G.)

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ANNEXURE - I

आर.के.एम. पावरजेन लि. उच्चपिण्डा को साराडीह बैराज से 1440 मेगावाट थर्मल पावर प्लांट हेतु महानदी से जल प्रदाय के लिये द्वितीय किस्त की राशि रु. 4480.957 लाख उस पर दण्ड राशि रु. 89.619 लाख एवं दिनांक 31.10.15 की स्थिति में 9 प्रतिशत ब्याज की राशि रु. 1601.852 लाख कुल रु. 6172.428 लाख दिनांक 31.12.2015 तक कार्यालय कार्यपालन अभियंता, जल संसाधन सर्वेक्षण एवं बैराज निर्माण संभाग क्रमांक 1, खरसिया में जमा किया जाना होगा। उक्त तिथि तक वांछित राशि जमा नहीं करने पर आर.के.एम. पावरजेन लि. उच्चपिण्डा से जल प्रदाय करने का अनुबंध विखण्डित माना जावेगा।


P/O मेसर्स आर.के.एम. पावरजेन
प्रा.लि. उच्चपिण्डा, जिला-जांजगीर चाम्पा
(छ.ग.)


कार्यपालन अभियंता,
जल संसाधन सर्वेक्षण एवं बैराज निर्माण
संभाग क्र. 1, खरसिया, जिला- रायगढ़ (छ.ग.)

गवाह

(1) 

(2) 

