



ADHUNIK POWER AND NATURAL RESOURCES LIMITED

WORKS : Village – Padampur, Behind P.G.C.I.L Substation,
Adityapur Kandra Road, Saraikela – Kharswan : 832402, Jharkhand
Phone: + 91-657-6628400, Fax: + 91-657-6688440

Ref: MOE&F, RNC/HYC/BN/25618/02

Dated: 25.06.2018

To,

Regional Office (ECZ),
Ministry of Environment, Forest and Climate Change,
Bungalow No. A-2, Shyamali Colony,
Ranchi – 834002

Sub:- Submission of Half yearly compliance status report (Unit II) for the period –
October 2017 to March 2018,-Reg.

Ref:- MoEF EC letter No.J-13012/8/2009-IA.II(T), Dated 09th May 2011.

Sir,

With reference to the above referred Environmental Clearance, we are pleased to submit
herewith the half yearly compliance status report (Unit II) for the period of **October 2017 to
March 2018**.

This is for your reference and record, please.

Thanking you,

For Adhunik Power & Natural resources Limited

Bhush

(Authorized Signatory)

Encl: As Above

Copy to:

- ii) Central Pollution Control Board, Kolkatta
- ii) Member Secreatry, Jharkhand State Pollution Control Board, Jharkhand
- iii) Regional Officer, JSPCB, Jamshedpur



*Recd
Buchi P
29/06/18*



CORPORATE OFFICE : "CRESCENT TOWER", 3rd Floor, 229 A.J.C. Bose Road, Kolkata-700020
Phone : +91-33-30915300 *,Fax : +91-33-30915344

REPORT

**ENVIRONMENTAL COMPLIANCE STATUS REPORT
FOR
EXPANSION OF 1X270 MW COAL BASED POWER
PLANT
(Unit II)**



OCTOBER'2017 – MARCH'2018

**Adhunik Power & Natural Resources Limited
Village: Padampur, Behind PGCIL Substation
Kandra Chouka Road, Saraikela-Kharsawan
Jharkhand**

Adhunik Power & Natural Resources Limited		
Vill: Padampur, Behind PGCIL Substation, Kandra Chouka Road, Saraikela-Kharsawan, Jharkhand		
Environmental Clearance Letter No: J13012/8/2009-IA .II (T) dtd 9th May 2011.		
Period Of Compliances: October,17-March,18		
SI No	EC Conditions	Status as on 31 st March 2018
A. Specific Conditions:		
i.	Environmental clearance for the proposed expansion shall be applicable only for addition of 1x270 MW out of proposed addition of 3x270. However at a later stage when firm coal linkage for second and third units of 270 MW are also available, the project proponent may request the Ministry for inclusion of second and third units i.e. 2x270 MW, which the Ministry shall consider appropriately.	Noted
ii.	The Ministry had issued a draft Notification on 30 th March, 2011 vide S.O. 691(E) under the Environment (Protection) Act, 1986 notifying the areas upto 5 km from the boundary of the protected area of Dalma Wildlife Sanctuary in the State of Jharkhand as the Eco-sensitive Zone. The necessity of obtaining environmental clearance from the National Board for Wild life would arise only if the proposed project area falls within the boundary of the finally notified eco-sensitive zone.	As per notification date 29 th March 2012 project boundary are beyond the stipulated distance from the boundary of the protected area of Dalma Wildlife Sanctuary in the State of Jharkhand as the Eco-sensitive Zone. Notification regarding nearest distance from Dalma wildlife sanctuary enclosed as Annexure I. Complied
iii.	Wildlife conservation plan shall be implemented during the development of project itself and the status of implementation shall be submitted to the Ministry from time to time.	The Wild Life Management Plan (WLMP) has prepared already been approved by PCCF, Ranchi on May'10.2010. 1 st installment already submitted. Complied
iv.	Vision document specifying prospective plan for the site shall be formulated and submitted to the Ministry within six months.	Vision document report has submitted at MoEF on 30 th Dec 2011. Complied
v.	Possibility for harnessing solar power within the premises of the plant (particularly at available roof tops) shall be examined and status of implementation shall be submitted.	Noted and We are in process to installation of solar system in all vulnerable area for harnessing the solar energy.
vi.	Transport of coal shall be by rail only. The project proponent shall accordingly take up the matter with the Railways. Status of implementation shall be submitted to the Regional Office of the Ministry from time to time.	New Railway siding has been developed near Brirajpur railway station which is adjacent to Plant premises. Complied
vii.	A study shall be undertaken by an organization of repute such as RIT, Jamshedpur on source sustainability of water, based on the data of the source of water (Subarnarekha River) for the last 50 years and a report submitted within six months.	Water sustainability report has been prepared by IIT Kharagpur. Report was already submitted to MoEF BBS dated 11.11.11. Complied

viii.	Water usage shall be restricted to 30 MCM.	Complied.
ix.	The project proponent shall seriously undertake rain water harvesting measures and shall develop water storage capacity for a larger period not less than 30 days storage before commissioning of the plant. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology/design within a period of three months from the date of this clearance and details shall be furnished. The design of rain water harvesting shall comprise of rain water collection from the built up and open area in the plant premises. Action plan and road map for implementation shall be submitted to the Ministry within six months.	The Rain water harvesting report has already been submitted and approved from CGWA, Ranchi. Rain water harvesting structures has constructed in accordance with the approved rain water harvesting plan. Complied
x.	Existing de-generated water bodies (if any) in the study area shall be regenerated at the project proponents expenses in consultation with the state govt.	Degenerated pond has been renovated as per request from local people/Gram Panchayat .
xi.	Hydrogeology of the area shall be reviewed annually from an institute/ organization of repute to assess impact of surface water and ground regime (especially around ash dyke). In case and deterioration is observed specific mitigation measures shall be undertaken and reports/ data of water quality monitored regularly and maintained shall be submitted to the Regional Office of the Ministry.	The baseline ground water quality of ash pond area is already available with APNRL as part of EIA and ESIA study undertaken. However regular monitoring of ground water in and around ash pond area including heavy metals is being carried out periodically. Monthly monitoring of Water is being undertaken by APNRL in house laboratory. Surface Water Analysis report and Ground water analysis report of upstream & Downstream of Ash pond from October,17-March,18 enclosed as Annexure II & Annexure III respectively
xii.	Source of water for meeting the requirement during lean season shall be specified and submitted to the Regional Office of the Ministry within three months.	Lean season data has already submitted To MoEF BBS on 19th aug 2011.Complied
xiii.	No ground water shall be extracted for use in operation of the power plant even in lean season.	Complied.
xiv.	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.	Complied.
xv.	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.	Complying accordingly.
xvi.	COC of 5.0 shall be adopted.	COC 5.0 has been considered for cooling tower design.
xvii.	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)	Regular monitoring of ground water in and around ash pond area including heavy metals is being carried out & report submitted to MoEF. Data compared with baseline data. Ground water analysis report of upstream & Downstream of Ash pond from October,17-March,18 enclosed as

	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.	Annexure III.
xviii.	Monitoring surface water quality in the area 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.	Surface Water Analysis report and Ground water analysis report of upstream & Downstream of Ash pond from October,17-March,18 enclosed as Annexure II & Annexure III respectively
xix.	Additional soil for leveling of the proposed site shall be generated within the sites (to the extent possible) so that natural drainage system of the area is protected and improved. The leveling in plant area should be minimum with no or minimal disturbance to the natural drainage of the area.	Complied.
xx.	Provision for installation of FGD shall be provided for future use	FGD space is provided on site for future use, however concentration of SO ₂ in flue gas is well within prescribed limit.
xxi.	The project proponent shall undertake measures and ensure that no fugitive fly ash emissions take place at any point of time.	Strictly complying.
xxii.	Stacks of 275 m height shall be installed and provided with continuous online monitoring equipments for SO _x , NO _x and PM _{2.5} & PM ₁₀ . Exit velocity of flue gases shall not be less than 22 m/sec. Mercury emissions from stack may also monitored on periodic basis.	Twin flue chimney of 275m height has constructed for proper dispersion of flue gases. Online monitoring equipment has installed at chimney. Hg concentration is well within prescribed limits. Complied
xxiii.	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm ³ .	High efficient ESPs of 32 fields have installed to ensure control PM emission in flue gas. Stack Monitoring report from October,17-March,18 enclosed as Annexure IV .
xxiv.	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.	Necessary mitigation measures in accordance with EMP and EC conditions has taken to control fugitive emissions from ash storage/transfer and coal handling plant such as installation and operation of bag filters collectors, use of water spray systems and enclosed conveyors with well designed, extraction and filtration equipment on transfer points. Complied
xxv.	Utilization of 100% Fly Ash generated shall be made from 4 th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	Agreements made with cement plants, brick plants, etc to ensure optimum utilization of fly ash.
xxvi.	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. Unutilized fly ash shall be disposed off in the ash pond in the form of slurry form. Mercury and other heavy metals (As,Hg, Cr, Pb etc.) will be monitored in the bottom ash as also	02 No Silos has Constructed to storage of fly ash. Monitoring of mercury and other heavy metals (As, Hg, Cr, Pd etc.) in the bottom ash and also in the effluents emanating from the ash pond is being done periodically. Bottom ash analysis report & effluent analysis report of ash pond attached as

	in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	Annexure V & Annexure VI respectively.
xxvii.	Ash pond shall be lined with HDPE/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	Complied.
xxviii.	For disposal of Bottom Ash in abandoned mines (if proposed to be undertaken) shall be done after obtaining due permission from DGMS and after ensuring that the bottom and sides of the mined out areas are adequately lined with clay before Bottom Ash is filled up. The project proponent shall inform the State Pollution Control Board well in advance before undertaking the activity	Not Applicable.
xxix.	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.6 % and 34 % respectively at any given time. In case of variation of coal quality at any point of time fresh reference shall be made to MOEF for suitable amendments to environmental clearance condition wherever necessary.	The sulphur and ash content in used coal conforms the limits. Complied.
xxx.	Green Belt consisting of 3 tiers of plantations of native species around plant and at least 75 m width shall be raised. The density of tree shall not less than 2500 per ha and survival rate not less than 80 %.	A thick green belt of adequate width is being developed.57986 nos.(Area covered-42.8 acres) of plantation has been completed in and outside along the periphery of the power plant to arrest any dust emissions and help in attenuation of noise till Sep 2016. Survival rate of sapling is 86.4%. Total Survived plants are 52638. Plantation done till March 2018 is 2368 samplings. Name of Plant Species- Gulamohar, Neem, Pelatforum, Seesam, Bakul, Jamun etcDetails of Plantation attached as Annexure VII .
xxxi.	Over and above the green belt, as carbon sink, social forestry shall be carried out in close consultation with the Forests Department. The project proponent shall accordingly identify blocks of land / degraded forests and shall undertake regeneration of degraded forests at a large scale. In pursuance to this the project proponent shall formulate time bound action plan along with financial allocation and shall submit status of implementation to the Ministry within six months.	Green belt has been developed inside and around the plant premises.
xxxii.	At least three nearest village shall be adopted and basic amenities like development of roads, drinking water supply, primary health centre, primary school etc shall be developed in co-ordination with the district administration.	APNRL has adopted villages a. Barahariharpur b. Padampur c. Srirampur CSR is also providing the facilities in following villages

		<p>d. Pindrabera e. Chotahariharpur f. Ramjivanpur g. Bikanipur etc.</p> <p>Details of CSR activity enclosed as Annexure VIII.</p>
xxxiii.	The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.	Details of CSR activity enclosed as Annexure VIII.
xxxiv.	A time bound implementation of the CSR shall be formulated within six months and submitted to the Ministry. CSR schemes shall be undertaken based on need assessment in and around the villages within 5 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.	List of local employed youth enclosed as Annexure IX. Complied
xxxv.	For the tribal families (if any) living in the area within 5.0 Km of site, affected directly or indirectly by the proposed project, specific schemes for upliftment of their sustainable livelihood shall be prepared with time bound implementation and in-built monitoring programme. The status of implementation shall be submitted to the Regional Office of the Ministry from time to time.	Survey has been completed; report has been prepared. CSR activities started for upliftment of sustainable livelihood of tribal families in surrounding villages. Details of CSR activity enclosed as VIII for the period of October,17-March,18.
xxxvi.	An amount of Rs 23.70 Crores shall be earmarked as one time capital cost for CSR programme as committed by the project proponent. Subsequently a recurring expenditure of Rs 4.74 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be submitted within six month along with road map for implementation.	<p>Details of the activities report has submitted on MoEF on 9th Nov 2011.</p> <p>Complied.</p>
xxxvii	It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time	<p>All CSR activities are monitored on weekly and monthly basis.</p> <p>Complied.</p>

B. General Conditions:		
i.	The treated effluents conforming to the prescribed standards only shall be re-circulated and reused within the plant. Arrangements shall be made that effluents and storm water do not do not get mixed.	Complied. Treated effluent analysis report of Guard pond from October,17-March,18 enclosed as Annexure X.
		Adequate and separate drainage structures has provided to channel storm water generated onsite into rain water harvesting structures constructed in accordance with the approved rain water harvesting plan.
ii.	A sewage treatment plant shall be provided (as applicable) and the treated sewage shall be used for raising greenbelt/plantation	Complied
iii.	Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry.	The design of coal yard along with provision of fire safety measures viz. fire hydrants, water sprinklers has installed. The details of the same along with plant lay out will be submitted to the Ministry. Complied
iv.	Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area in consultation with Department of Explosives, Nagpur. Sulphur content in the liquid fuel will not exceed 0.5%. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	Approval received on dated 15/12/2011. License No. P/HQ/JH/15/1065 (P257355), for LDO storage installation (under Petroleum Class "C") for operations
		Emergency Response Plan (ERP) has prepared as part of the project ESMS to cater to potential emergencies/risks identified.
v.	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Plant is in operational condition however A first aid center comprising with necessary medical facilities is made available onsite to provide emergency medical aid to both contract workers and company staff. Complied.
vi.	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dBA from source. 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	Adequate measures has implemented in consistent with the EMP to control turbine noise levels within stipulated limits. This include installing of sufficient engineering control in turbines as per design specifications, provision of ear plugs/ear muffs for workers exposed to high noise, rotation of workers and carrying out periodic audiometric testing of workers and records is being maintained. Noise level monitoring report from October, 17-March,18 enclosed As Annexure XI.
vii.	Regular monitoring of ambient air ground level concentration of SO ₂ , NO _x , PM _{2.5} & PM ₁₀ and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control	In house Monthly monitoring of Air quality is being conduct by APNRL. Review of air quality monitoring results revealed compliance to NAAQS. Realtime data of CAAQMS has been uploaded at CPCB & JSPCB website. Ambient Air monitoring reports from October,17-

	measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	March,18 enclosed As Annexure XII.
viii.	Provision shall be made for the housing of construction labor (as applicable) within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Plant is in operational condition and local labors are coming from nearby villages. Complied
ix.	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in .	Complied
x.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions/representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied
xi.	An Environmental Cell comprising of at least one expert in environmental science / engineering, occupational health and social scientist, shall be created at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the head of the organization and he shall be held responsible for implementation of environmental regulations and social impact improvement/mitigation measures.	A Environmental Management Cell consist high qualified environmental professionals are being operational onsite to ensure effective implementation of specific EMPs. Organization chart of Environmental Management Cell enclosed as Annexure XIII.
xii.	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM _{2.5} & PM ₁₀),	The updated compliance status of the stipulated EC conditions along with monitored data has been uploaded on the company website. The monitoring data (SPM, RSPM, SO ₂ , NO _x) for both ambient air quality and chimney emissions is being displayed at the main gate of the company. Uploaded compliance status of the stipulated EC conditions along with monitored data can be seen on URL: https://www.adhunikgroup.com/uploads/ec_pdf/1

	SO ₂ , NO _x (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.	515577207.pdf
xiii.	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 last environmental statement for financial year (2016-17) in Form V has submitted to JSPCB vide letter No: APNRL/JSPCB/ES/2016-17/02 dated 15 th Sep 2017. Acknowledgement copy of same attached as Annexure XIV.
xiv.	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environment of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests	Last six monthly reports for the project along with environmental monitoring data submitted to MoEF RO at Ranchi office vide letter No MOE&F,RNC/HYC/BN/281217/02 ,dated 28 TH Dec 2017. Acknowledgement copy of same attached as Annexure XV.
xv.	Regional Office of the Ministry of Environment & Forests will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels including NO _x (from stack & ambient air) shall be displayed at the main gate of the power plant.	A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information already submitted to the Board. The updated compliance status of the stipulated EC conditions along with monitored data has been uploaded on the company website. The monitoring data (SPM, RSPM, SO ₂ , NO _x) for both ambient air quality and chimney emissions is being displayed at the main gate of the company. However Half yearly progress report is being sent to RO office on regular basis as per the requirement. Complied
xvi.	Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.	Adequate budgetary provision has been made by the APNRL for execution of environmental management plan. Details of item wise expenditure incurred on environmental measures for the financial year 2017-18 shall be submit On or before June 2018.

xvii.	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant	Complied
xviii.	Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore / CPCB/ SPCB who would be monitoring the compliance of environmental status	We ensure.

कार्यालय :- प्रधान मुख्य वन संरक्षक झारखण्ड, राँची।

पत्रांक:-19एम01(5)29/2008 2574 दिनांक:-23.7.09

सचिव,

वन एवं पर्यावरण विभाग,

झारखण्ड सरकार, राँची।

मैसर्स आधुनिक थर्मल एनर्जी लिमिटेड के कान्हा पदमपुर, श्री रामपुर, रामचन्द्रपुर मौजा, जिला-सरायकेला-खरसांवा में स्थापित किये जाने वाले थर्मल पावर प्रोजेक्ट के लिए पर्यावरणीय स्वीकृति के संबंध में।

विभागीय पत्रांक-308, दिनांक-04.02.09

उपर्युक्त विषयक संदर्भ में सूचित करना है कि प्रधान मुख्य वन संरक्षक, जैव विविधता संरक्षण एवं मुख्य वन्यप्राणी प्रतिपालक, झारखण्ड, राँची ने अपने पत्रांक 463, दिनांक-02.07.2009 (छायाप्रति संलग्न) द्वारा संबंधित विषय पर प्रतिवेदन/मंतव्य समर्पित किया है। उक्त प्रतिवेदन एवं उपलब्ध अभिलेखों के आधार पर प्रस्तावित परियोजना स्थल के संबंध में स्थिति निम्नवत् है :-

1. विषयक थर्मल पावर प्रोजेक्ट काण्डा पदमपुर, श्रीरामपुर, रामचन्द्रपुर मौजा की गैर-वन भूमि पर स्थापित किये जाने का प्रस्ताव है।
2. उपरोक्त पावर प्रोजेक्ट दलमा वन्यप्राणी आश्रयणी की निकटतम सीमा से लगभग 7.5 कि०मी० दूर स्थापित होगा। प्रस्तावित क्षेत्र की 10 कि०मी० त्रिज्या के अंदर अवस्थित वन भूमि सिंहभूम गज आरक्ष्य का भाग है।
3. वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, राँची के द्वारा पावर प्रोजेक्ट के लिए प्रस्तावित स्थल को प्रस्तावित इको-सेंसिटिव जोन से सटा हुआ बताया गया है, जबकि दलमा वन्यप्राणी आश्रयणी के लिए प्रस्तावित इको-सेंसिटिव जोन से संबंधित जो प्रस्ताव राज्य सरकार को भेजा गया है उसके अनुसार प्रस्तावित स्थल प्रस्तावित इको-सेंसिटिव जोन की निकटतम सीमा से लगभग 2.5 कि०मी० दूर अवस्थित है। इस क्रम में अनुलग्नक- 1 पर दो प्रतियों में नक्शा संलग्न है।
4. पावर प्रोजेक्ट के लिए प्रस्तावित स्थल से 8 से 10 कि०मी० की दूरी पर दलमा-रूगाई गज-कोरीडोर एवं दलमा-चंडिल गज-कोरीडोर अवस्थित है। इस क्षेत्र के पास एक अन्य गज-कोरीडोर चांडिल-माथा कोरीडोर भी है, जो प्रस्तावित स्थल से 10 कि०मी० से अधिक दूरी पर अवस्थित है। इसके अतिरिक्त कोई अन्य हाथी कोरीडोर प्रस्तावित

[Handwritten Signature]

- क्षेत्र के पास पूर्व चिन्हित नहीं है। उपरोक्त गज-कोरीडोर को दिखाते हुए नक्शा (अनुलग्नक-2) दो प्रतियों में संलग्न है।
5. वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, रांची के द्वारा अपने प्रतिवेदन में यह उल्लेख किया गया है कि दलमा वन्यप्राणी आश्रयणी की दक्षिणी सीमा पर स्वर्णरेखा नहर की गहरी खोदाई के कारण इस क्षेत्र में हाथियों का आवागमन अनियामित है। उन्होंने यह भी वर्णित किया है कि आश्रयणी से हाथियों का आवागमन रामगढ़, एन0एच0-33, डोभी, कपालन, तमोलिया होते हुए पुनः आश्रयणी की ओर हो रहा है। पूर्व में यह पलना जलाशय तक होता था, जो वर्तमान में नहर की खोदाई के कारण बाधित है। इस संबंध में नक्शे की समीक्षोपरांत यह पाया गया है कि यदि हाथियों का आवागमन पूर्ववतः आश्रयणी से पलना जलाशय तक होता भी है तब भी प्रस्तावित स्थल ऐसे किसी आवागमन मार्ग के बीच में नहीं आयेगा। पलना जलाशय की लोकेशन को दर्शाते हुए एक नक्शा भी इस पत्र के साथ संलग्न किया जा रहा है जिससे स्पष्ट होगा कि यह जलाशय प्रस्तावित स्थल से लगभग 17 कि0मी0(उत्तर पूर्व) की दूरी पर अवस्थित है। प्रस्तावित स्थल होकर हाथियों का आवागमन होने की या कोई पूर्व-स्थापित गज-कोरीडोर होने की कोई टोस सूचना/प्रमाण उपलब्ध नहीं है।
 6. झारखंड राज्य में गज-कोरीडोर को चिन्हित करने का कार्य एक स्वयंसेवी संस्था 'वाइल्ड लाइफ ट्रस्ट ऑफ इण्डिया, नई दिल्ली' के द्वारा किया गया है। इस कार्य में झारखंड वन विभाग के द्वारा भी सहयोग किया गया था। उपरोक्त स्वयंसेवी संस्था द्वारा प्रकाशित 'Right of Passage- Elephant Corridors of India' नामक पुस्तक में झारखंड राज्य के लिए कुल 14 गज-कोरीडोर वर्णित है तथा इसी सूचना के आधार पर कंडिका चार में वर्णित तीन गज कोरीडोर को नक्शे पर दर्शाया गया है।
 7. प्रस्तावित स्थल के आसपास कई अन्य उद्योग, यथा पावर ग्रिड कॉरपोरेशन ऑफ इण्डिया लि0, बी0के0 स्टील आई0ओ0सी0एल0, टी0सी0एस0, उषा मार्टिन, नीलांचल स्टील, आदि स्थापित हैं। यह अनुलग्नक-3 पर दो प्रतियों में उपलब्ध नक्शे से स्पष्ट है। इस क्षेत्र में कई उद्योग होने के कारण भी इसे दलमा वन्यप्राणी आश्रयणी के प्रस्तावित इको-सेंसिटिव जोन से बाहर रखा गया था।
 8. वन प्रमण्डल पदाधिकारी, वन्यप्राणी प्रमण्डल, रांची ने प्रस्तावित स्थल दलमा आश्रयणी एवं elephant bearing area के समीप होने के कारण हाथियों के आवागमन पर पड़ने वाले प्रतिकूल प्रभाव की संभावना बताते हुए प्रस्तावित परियोजना हेतु अनापत्ति प्रमाण-पत्र निर्गत नहीं करने की अनुशंसा की है। परंतु वन संरक्षक, वन्य प्राणी अंचल, रांची ने वन प्रमण्डल पदाधिकारी द्वारा अपने प्रतिवेदन में उठाए गये विभिन्न विन्दुओं पर

1

समीक्षात्मक टिप्पणी अंकित करते हुए उनकी अनुशंसा से सहमति व्यक्त नहीं की है, जो उपरोक्त कंडिकाओं में उलेखित तथ्यों एवं संलग्नक मन्त्रिचित्रों पर आधारित है। प्रधान मुख्य वन संरक्षक, जैव विविधता संरक्षण एवं मुख्य वन्यप्राणी प्रतिपालक, झारखण्ड, रांची, वन संरक्षक के उपर्युक्त मंतव्य से सहमत हैं।

9. प्रधान मुख्य वन संरक्षक, जैव विविधता संरक्षण एवं मुख्य वन्यप्राणी प्रतिपालक, झारखण्ड, रांची द्वारा अग्रलिखित शर्त पर संबंधित परियोजना हेतु एन0ओ0सी0 निर्गत करने की अनुशंसा की गई है कि EIA के ToR की शर्त V के आलोक में प्रयोक्ता अभिकरण को इस आशय की वचनबद्धता देनी होगी कि प्रयोक्ता अभिकरण वन्य प्राणी विशेषज्ञ की मदद से Wildlife Mitigation and Conservation Plan उक्त क्षेत्र विशेष हेतु तैयार करा कर EIA में शामिल करेंगे और उक्त योजना का कार्यान्वयन वन विभाग के माध्यम से प्रयोक्ता अभिकरण की लागत पर किया जायेगा।

प्रधान मुख्य वन संरक्षक, जैव विविधता संरक्षण एवं मुख्य वन्यप्राणी प्रतिपालक, झारखण्ड, रांची के उपर्युक्त मंतव्य से अद्योहस्ताक्षरी सहमत हैं।

अनुरोध है कि विषयगत पर्यावरणीय स्वीकृति पर अग्रतर कार्यवाई करने की कृपा की जाय।

अनु0—यथोक्त।

विश्वासभाजन,



प्रधान मुख्य वन संरक्षक,
झारखण्ड, रांची।

2/11/17

Adhunik Power & Natural Resources Limited, Padampur

SURFACE WATER SAMPLE ANALYSIS RESULTS FOR BADAHARIHARPUR POND

Sr. No	Parameters	Unit	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018
1	Colour	Hazen	<5	<5	<5	<5	<5	<5
2	Odour		Odouless	Odouless	Odouless	Odouless	Odouless	Odouless
3	pH	mg/l	7.6	7.9	7.3	7.5	7.2	7.2
4	Temperature		22.9	26.4	21.3	22.4	21.9	26.3
5	Oil & Grease	°C	ND	ND	ND	ND	ND	ND
6	Electrical Conductivity	mg/l	512	543	412	394	381	569
7	Dissolved Oxygen	mg/l	5.2	5.7	5.2	5.3	5.6	5.1
8	BOD at 270C (3days)	mg/l	2.6	2.4	3.6	3.4	3.4	4.2
9	Total Coliforms	mg/l	Nil	Nil	Nil	Nil	Nil	Nil
10	Total Dissolve Solids	mg/l	189	201	166	159	162	178
11	Total Hardness as CaCO ₃	mg/l	145.8	154.7	145.6	143.8	144.2	156.4
12	Chloride as Cl	mg/l	201.3	196.4	123.9	120.3	125.9	132.5
13	Sulphate as SO ₄	mg/l	43.9	45.1	53.4	55.4	50.9	55.2
14	Nitrate as NO ₃	mg/l	5.6	5.7	4.95	5.23	5.34	4.56
15	Free CO2	mg/l	1.9	2.6	1.2	1.6	1.4	1.6
16	Free NH3	mg/l	0.0153	0.0162	0.0133	0.0135	0.0139	0.0136
17	Fluoride as F	mg/l	0.0331	0.0324	0.0351	0.0359	0.0364	0.0362
18	Calcium Hardness	mg/l	42.6	43.8	43.7	44.6	41.6	42.5
19	Magnesium as Mg	mg/l	9.4	11.8	13.5	11.6	13.8	12.5
20	Copper as Cu	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
21	Iron (fe)	mg/l	0.073	0.075	0.159	0.155	0.161	0.158
22	Manganese (Mn)	mg/l	0.0156	0.0146	0.0119	0.0116	0.0119	0.0116
23	Zinc as Zn	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
24	Boron (B)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
25	Arsenic (As)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26	Mercury (Hg)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
27	Lead (Pb)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
28	Cadmium (Cd)	mg/l	ND	ND	ND	ND	ND	ND
29	Hexavalent Chromium(Cr+6)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
30	Selenium(Se)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
31	Cyanide (CN)	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
32	Phenol (C6H5OH)	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
33	Anionic detergents (MBAS)	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
34	Sodium(Na)	mg/l	61	66	82	82	85	83

**Adhunik Power & Natural Resources Limited, Padampur
STACK EMISSION MONITORING REPORT**

Sl.No.		UNIT-2		
	PARAMETERS	PM	SO2	NOX
	AS PER CONSENTED NORMS	100 mg/Nm3	ND	ND
1	Oct-17	S/D	S/D	S/D
2	Nov-17	S/D	S/D	S/D
3	Dec-17	S/D	S/D	S/D
4	Jan-18	S/D	S/D	S/D
5	Feb-18	S/D	S/D	S/D
6	Mar-18	S/D	S/D	S/D

- * SO2 -mentioned in mg/Nm3
- * NOx -mentioned in mg/Nm3
- * Unit 2 was under shut down due to Rotor failure since Sep 2017

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YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

LAB ACCREDITED BY: National Accreditation Board for Testing & Calibration Laboratory (NABL), New Delhi
Jharkhand State Pollution Control Board (JSPCB) (T 2982, T-2916) (B-1874)

Test Report

Issued to :- M/s ADHUNK POWER & NATURAL RESOURCES LIMITED (Unit II) Vill: Padampur, Behind P.G.C.I.L Substation, Jamshedpur-832105, Jharkhand	Sample Code: - 171231-BA-E01 Report ID : - YBAEEL/JSR/17-12-31/BA/01 Date of Issue: - 10 th Jan. 2018 Reference : - YBAEEL/WA/L/C/Dec-17
Sample Particulars Sample Name/Description: - Bottom Ash Sample Quantity : - 5 kg Sample pkg. Condition : - Sealed in plastic bag	Details of Sampling Date of sampling : - 31-12-2017 Sample Received Date: - 01/01/2018 Sample collected by: -Own/ Mr. Pramod Singh & Team Sampling Location: -Bottom Ash Hopper (Unit II)

Test Result

Sl. No.	Tested Parameter	Unit	Results
1.	Arsenic	ppm	0.09
2.	Mercury	ppm	0.06
3.	Chromium	ppm	0.12
4.	Lead	ppm	0.28
5.	Cadmium	ppm	0.04
6.	Copper	ppm	0.24
7.	Nickel	ppm	0.07
8.	Selenium	ppm	0.01
9.	Zinc	ppm	0.21
10.	Unborn carbon	%	2.63

*****End of Test*****

Remarks:-According to tested parameter, the results found as above.

Specific contractual notes: -

- ◆ The results listed refer only to the tested sample and applicable parameter.
- ◆ This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
- ◆ This report cannot be reproduced, except when in full, without the written permission of the Lab In-charge
- ◆ The samples received shall be destroyed after two month from the date of issue of the certificate unless specified otherwise and sample for biological testing will be destroyed after two week of testing.
- ◆ The liability of the laboratory is limited to the invoiced amount.
- ◆ All disputes are subjected to the Ranchi Jurisdiction.

Tested by
(Bajrang Kr.)
Analyst

Verified by
(Sunil Singh)
Authorised Signatory

Issued by
(Umesh Das)
Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laboratory



An ISO 9001: 2008 & OHSAS 18001:2007 Certified Laboratory

Post Box no. 32 | Namkom Post Office | Sidroul | Ranchi - 834010 (Jharkhand)
Ph. 0651-6003372, 098351-97960 | Tele Fax : 0651-2260787 | E-mail : ybaeel@gmail.com





YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

LAB ACCREDITED BY:

National Accreditation Board for Testing & Calibration Laboratory (NABL), New Delhi
Jharkhand State Pollution Control Board (JSPCB)

(T 2982, T-2918)
(B-1874)

Test Report

Issued to :- M/s ADHUNIK POWER & NATURAL RESOURCES LIMITED Vill: Padampur, Behind P.G.C.I.L Substation, Jamshedpur-832105, Jharkhand		Sample Code: - 171231-WW-E01 Report ID :- YBAEEL/JSR/17-12-31/WW/E01 Date of Issue: - 10 th Jan. 2018 Reference :- YBAEEL/WA/L/C/Dec-17/13	
Sample Particulars Sample Name/Description: - Waste Water Sample Quantity :- One litre Sample pkg. Condition :- Sealed in plastic bottle		Details of Sampling Date of sampling :- 31-12-2017 Sample Received Date: - 1/01/2018 Sampling Protocol: - YBAEEL/SP/01/00 Sample collected by: - Own/ Mr. Mukesh Singh & Team Sampling Location: - Ash pond outlet	

Test Result

Sl. No.	Tested Parameter	Unit	Results	Method (APHA 22 ND Edition 2012)	Permissible Limit
1.	pH	---	7.6	4500 H+ B	N/A
2.	Temperature	°C	22.7	2550 B	N/A
3.	Total dissolve solid	mg/l	57	2540 C	N/A
4.	Oil & Grease	mg/l	5.2	5520 B	N/A
5.	Mercury	mg/l	< 0.003	3112 B	N/A
6.	Arsenic	mg/l	< 0.003	3114 B	N/A
7.	Total Chromium	mg/l	0.01	3111 B	N/A
8.	Lead	mg/l	0.03	3111 B	N/A

*****End of Test*****

Remarks:-According to tested parameter, the results found within the prescribe limit of waste water specification.

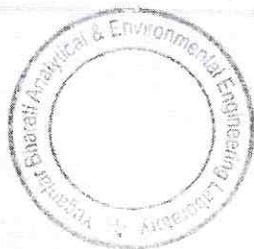
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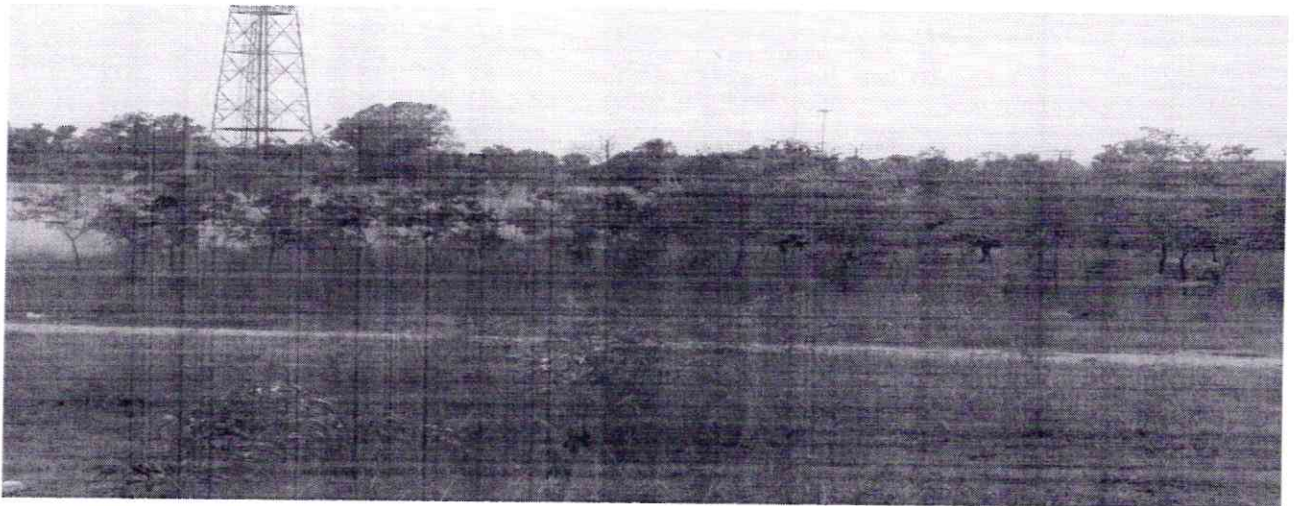
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Green Belt Development

GREEN BELT DEVELOPMENT		
01	Afforestation	A thick green belt of adequate width is being developed.59678 nos.(Area covered-42.8 acres) of plantation has been completed in and outside along the periphery of the power plant to arrest any dust emissions and help in attenuation of noise till Sep 2016. Survival rate of sapling is 86.4%. Total Survived plants are 52638. Plantation done till March 2018 is 2368 samplings. Name of Plant Species- Gulamohar, Neem, Pelatforum, Seesam, Bakul, Jamun etc.
02	Landscape & Gardening	We develop world class landscape and garden inside and outside of plant premises to control soil erosion and making healthy working environment



**Report on
Corporate Social Responsibility Initiatives
2017-2018**

ADHUNIK POWER & RESOURCES LIMITED, PADAMPUR

**Adhunik Power & Natural Resources Limited, Padampur
(Block-Gamharia, District-Saraikela-Kharsawan, Jharkhand)**

FY- 2017-2018

Report on Corporate Social Responsibility Initiatives

Adhunik Power & Natural Resource Limited (APNRL)'s APNRL's Corporate Social Responsibility initiated multiple dimensions of social issues in the realm of child education, healthcare, skill development, Infrastructure and environmental upgrade. The Company has partnered with genuine and dedicated organizations towards such causes and has created a sustainable impact for years in a row.

- Education
- Health & Sanitation
- Skill Development
- Women Empowerment & Livelihood
- Infrastructure

APNRL had taken up new initiative during the mentioned period in periphery villages of Rapcha and Dugdha Gram Panchayat as follows:

Health & sanitation

Safe drinking water under project Amrit Dhara: Our ongoing Project Amrit Dhara is especially designed under PPP mode for serving the people of Gamharia Block, Saraikela who are our fellow citizens and long deprived of proper drinking water and now, about 1000 members a day are using safe drinking water. They are much satisfied with the processes and cleanliness of the plant.



Status of Supply of Safe Drinking Water		
Area Covered	No. of House Hold	Mode of delivery
Gamharia, Chota Gamharia, Jharkuli etc.	942	Self & Van
Padampur, B'hariharpur, Srirampur Kandra, Chitakoot	245	Through Van
Govt. School, B'Hariharpur	1 School	Through Van

Sanitation Campaign:

Under the Corporate social responsibility, the company has taken an initiative towards sanitation campaign in different villages of Rapcha & Dugdha Gram to protect the villagers from water borne diseases.

Sanitation campaign			
S.N	Activities done	Benefited	Village Covered
1.	Training on Hand Wash- April & May 2017	400 Students	Padampur, B'Hariharpur & Pindrabera
2.	Health Awareness Drive May 2017	200 villagers	Rapcha, Padampur, B'Hariharpur, Dugdha & Haridih
3.	Rally on Health Awareness May 2017 (Started from 4.5.2017)	200 villagers	Rapcha, Padampur, B'Hariharpur, Dugdha & B'Haridih

Health Awareness Drive and spray bleaching powder: Health is a major concern of people in



periphery Villages, as observed particularly in the rainy season most of the diarrhea cases have been found. Main cause of diarrhea is polluted water and unhygienic condition of the village surroundings. The CSR Dept. of APNRL has shown its solidarity by initiation of **Health Awareness Drive** in the villages like; Rapcha of Rapcha Gram Panchayat, Dugdha Gram Panchayat ,etc. the cleanliness and control of the diarrhea, malaria etc. and also **sprayed bleaching powder** in drainages, wells and water logging area during the drive to stop mosquito breeding in order to



prevent various diseases caused by dirt & mosquitoes etc.

Celebrate World Anti-Tobacco Day 31.5.2017: Signature campaign organized on the occasion of **World Anti- Tobacco Day** in plant premises on 31st May 2017 to raise awareness amongst the



workers/employees against bad effect of tobacco in human body. Signature campaign initiated by the Plant Head Mr. B. N. Nellikwar with message writing on display board as **“Get free from tobacco & lead a happy life”**. It revealed that the people were very enthusiastic and came forward to take part in the signature campaign to reduce the use of the tobacco in our plant as well as in the country.

We also organized **Seminar and Essay & Drawing Competition** at Panchayat Bhawan Dugdha where about 150 Villagers participated in this program. Winner of Essay competition – 1st prize to Ms. Shuvawati Kumar Mahato, 2nd prize to Malti Hasda, 3rd to Ms. Sati Das and 4th prize given to Ms. Gurubari Hasda. Drawing Compatiction- 1st prize to Mr. Raju Hansda, 2nd to Ms. Baby Kumari Patra, 3rd to Mr. Sukula Majhi and 4th prized to Bhosoko Tudu.

World Breastfeeding Week-2017 -The Company has always been empowering the village women



through various training events to lead their life with sustainable social recognition. CSR-Department APNRL organized **Seminar, Healthy Baby Show & Annaparasan** on the occasion of World Breastfeeding Week on 4.8.2017, at Conference Hall, Rapcha Gram Panchayat, Rapcha for promotion of the breastfeeding and to reach Millennium Development Goal (MDG) 4 (to reduce under five mortality by two thirds).

Our Chief Guest **Mr. B. Nellikwar- Plant Head**, APNRL explained that breastfeeding is absolutely essential in the first six months and should continue up to two years along with regular food. Breast milk contains nutrients that are vital for the infant in the first few months. Research has demonstrated that mothers require active support for establishing and sustaining appropriate breastfeeding practices.

Hon'ble Guest **Ms. Kiran Singh- Scientist, Krish Vigayan Kendra, Saraikela** explained the importance of breastfeeding within one hour of birth and exclusive breastfeeding up to six months and to retain continuity of the said practice for two further years. She also insisted for appropriate complementary feeding for children to start after 6 months of age. She informed that colostrum, the yellowish, sticky breast milk produced at the end of pregnancy as the perfect food for the newborn.



Ms. Sukmati Mardi –Mukhiya, Rapcha Panchayat said that Breastfeeding is the normal way of providing young infants with the nutrients they need for healthy growth and development.

Approx. 100 women participated in the seminar with their babies. For the promotion of breastfeeding, 3 best children from various villages were selected in each age group of 0 to 6 months and their mothers were also felicitated accordingly. The remaining children were also gifted with consolation prize as a token of motivation.

Following persons were also present during this occasion – Mr. Sanjeet Kumar Sinha, Sr. Manager-CSR, Ms. Sunita Devi-CSR, Kriti Mahal-NNS, AWWs and Helpers of AWCs.



At the end of the seminar Sunita Devi – CSR thanked all the participants and speakers.

National Nutrition Week -2017 - Under the social responsibilities, CSR Department, APNRL, Padampur observed National Nutrition Week on 5th Sept'2017 at Community Hall, Badahariharpur



village which covered **5 villages**. The main objective was to raise awareness amongst the villagers the importance of health nutrition which has an impact on development, productivity, economic growth and ultimately National development. Prakhand Pramukh, Gamharia Block, District Social Welfare Officer(DSWO)-ICDS, Saraikela, Lady Extension Officer, Gamharia , Lady Supervisor-ICDS, Sanjeet Kumar Sinha-CSR, APNRL Sunita Devi-

CSR, APNRL, Ajeet Kumar-CSR,AAPL, Laxmi Devi-CSR AAPL ,Srimant Mahato-NNS, Ambika Mahato-NNS Anganbadi Sevikas and approximately 100 women with their children from 5 villages namely Srirampur, Padampur, Bikanipur, Badahariharpur, Balidih had participated in this programme.

The **chief guest** of programme **Mrs Amrita Tudu, Prakhand Pramukh, Gamharia** said that Essential Nutrition is very crucial at Critical Stages in the Life Cycle of Women and Children. She was thankful to Adhunik CSR team for organising such an awareness program.

Hon'ble Guest District Social Welfare Officer, Saraikela- Ms. Surichi Prasad explained & advised the participating women as follows–

(a) Essential nutrition required before and after pregnancy and also the lactation period.

(b) Promotion of breast feeding by–

- Early initiation of breastfeeding within 1 hour of birth.
- Exclusive breastfeeding for 6 months age of infants.
- Continue breastfeeding during illness.
- Introduction of nutritionally-adequate and safe complementary (semi solid) foods after 6 months together with continued breastfeeding up to 2 years of age or beyond.



Ms. Vimola Triky, Lady Extension Officer (LEO), Gamharia said that women should be extra careful to avoid Iron Deficiency & anemia through eating iron rich food, De-worming in every six months, sleeping under an Insecticide Treated mosquito Net in areas where malaria is widespread. At the end of the seminar Sunita Devi – CSR thanked all the participants and speakers.

Blood Donation Camp: On 25th November 2017 CSR team APNRL; Padampur organized Blood Donation Camp at Occupational Health Center, APNRL, Padampur in association with **Jamshedpur Blood Bank**. Members of the Voluntary Blood Donors Association Jamshedpur also took active part in this Blood Donation Camp. The objective of the camp was that no one should die due to lack of blood. Employees of APNRL, contractor and villagers of our peripheral Villages participated with enthusiasm and donated 50 Units of blood for this noble cause.



Ambulance Services:

24 X 7 ambulance facility is provided to the peripheral villagers for better treatment. Ambulance, as pre-hospital emergency care, is provided to patients of near villages before they are shifted to a hospital or appropriate healthcare facility. During the 12 months, a total of **189 village patients underwent** and availed the ambulance facilities. The objectives of introducing the Ambulance Service are:



- To ensure timely referral health services to the needy village patients.
- To facilitate the pregnant women for timely institutional delivery.

Skill Development Training/ Vocational Training

Computer Training and Certificate distribution: Computer Center for village youth is running under ongoing project Cyber Village in three villages namely Rapcha, Badahariharpur and Dugdha of Rapcha

Gram
Panchayat
and
Dugdha
Gram
Panchayat



respectively. A total of 62 rural students passed out from the 3- center last eight months (April 2017 – November' 2017) and received certificate who had successfully completed 6 months course and qualified written exam. The Certificate signed by Instructor, Mukhiya , Pramukh, Gamharia Block, BDO, Gamharia Block and Chief Executive Member-NNS

Farewell Function at Computer Center Badahariharpur: The students of Cyber Village

Badahariharpur Centre organized a Farewell function on 23.6.2017 to say goodbye to their seniors. Separation is something that can give difficult times. It's never easy to say goodbye and express farewell wishes to classmates and teachers. It may be hard to say good bye but the "GOOD" with it is a promise of something better. Cultural Programme and a short play were organized by the students on this occasion to make the moment joyful. Mrs. Sunita Devi, CSR APNRL was also present during the function at Badahariharpur.



Tailoring Training: Opening of new Tailoring Center, Dugdha: Dugdha Gram Panchayat, Adhunik



Power & Natural Resources Limited and Nav Nirmal Sanstha have jointly taken up sewing & tailoring training center at Panchayat Bhawan, Dugdha for the village women & youths Under Corporate Social Responsibility. **On May 2, 2017**, the large numbers of villagers including Women & Youths were present during the inauguration ceremony. **Chief Guest Mr. B.N. Nellikwar –Plant Head, Adhunik Power & Natural Resources Limited** cut the ribbon declaring the formal inauguration of Tailoring Center, Dugdha. He said that “we are thankful to Dugdha Gram Panchayat, Dugdha for opening the center in order to develop our society” which will further help them in pursuing their career.

Mrs. Malti Hasda, Mukhiya of the Dugdha Panchayat thanked APNRL, and Nav Nirman Sanstha for taking up this initiative in the interest of village women & youth to provide them tailoring training. The objective of the center is towards empowerment of women and generating additional income to meet their basic needs. The training center is equipped with 5 sewing machines, where 42 mahilas are enrolled and provided with required training.



After completion of the six month course, the two days examination conducted at Panchayat Bhwan, Dugdha (**Theory & Practical**) on 27.11.2017 & 28.11.16 respectively. Total 26 village women are appeared in examination. The batch was started from May 2017. CSR-Team of APNRL facilitated examination.

Engagement Opportunities for Trained Youth		
Skill Development	Engagement	Average Monthly Income Level (INR)
1. Computer Training	Institute/Shops /Govt. / Private Sector- 1. Data Entry 2. DTP/ Typing work 3. Accounts-Tally	INR 2000 to INR 7000
2. Tailoring Training	Institute/Shops 1. Individual Women Tailors 2. Engaged in Tailoring shop	

Bus facilities for village girl students: The Company has been providing Bus facility to girl students of peripheral villages for promotion of girls' education and higher education. About 40 girls' students availed the Bus facilities on daily basis.

Every year the company provides vehicle facility of Board examinees also to their examination center. In this year Jharkhand Board (Matric

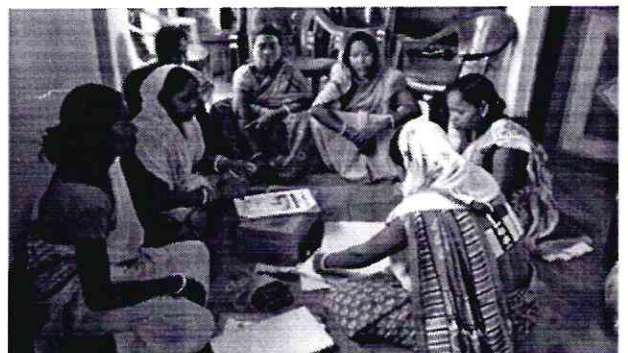


exam) had scheduled 2018 from 08.03.2018 to 21.3.2018. 11 no. girl candidates of peripheral village of plant area had availed the vehicle facility and the examination Centre was at **High School, Raghunathpur, Nimdih** which is about 40 km from Plant.

Women Empowerment / Livelihood

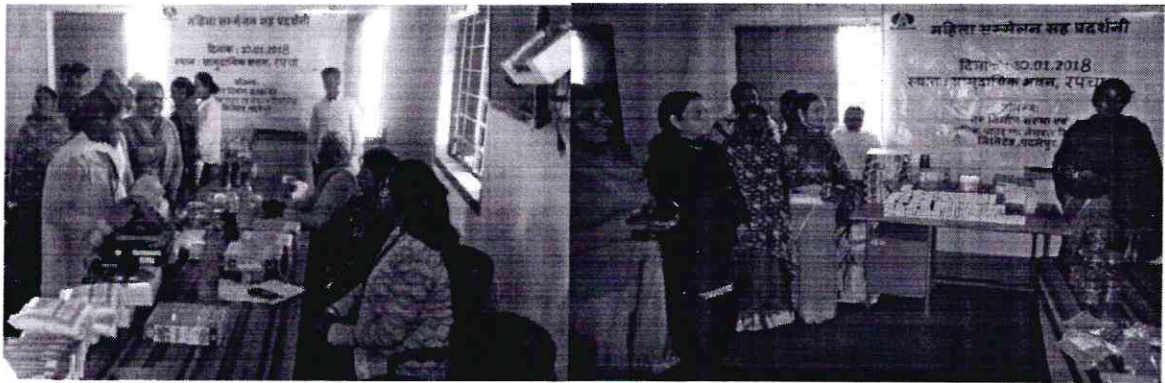
Strengthening of Self Help Groups: Adhunik Power & Natural Resources Limited (APNRL), Padampur is promoting sustainable livelihood project for the poor and vulnerable groups such as; village women under its Corporate Social Responsibility towards capacity building and livelihood promotion.

In order to strengthening of Self Help Groups (SHG) members, we facilitated the meeting of SHG in regular basis in villages Padampur, Badahariharpur, Chotahariharpur , Srirampur , Shankarpur, Pindrabera & Ramchandrapur for SHGs in promoting micro saving and inter loaning activities and the Company also organized trainings on various livelihood activities to make them capable for additional source of income.



Mahila Sammelan-cum-Exhibition: A Mahila Sammelan-cum-Exhibition of SHG products organized on 10th January 2018 under company's Corporate Social Responsibility with support of Nav Nirman Sanstha, Jamshedpur & Gram Panchayat Rapcha. The objective of conduction of Exhibition was to provide a platform for the women Self Help Groups (SHG) of company's periphery to display their home made products and to capture the opportunity of sale enhancement.

About 150 Women SHG members from the catering villages like Padampur, Pindrabera, Badahariharpur, Rapcha, Kandra, and Srirampur participated in this program. Mrs. Sukumati



Mardi-Mukhiya, Rapcha, Mr. Sanjeet Kumar

Sinha- Sr. Manager- APNRL, Mr. Kamlesh Kumar Jha- Manager-APNRL, Mr. Ajeet Kumar- Asst. Manager-AAPL, Sunita Besra-APNRL, Laxmi Devi-AAPL also participated.

The chief guest of programme Ms. Bimla Tirkey, Lady Extension Officer – Gamharia Block gave warm welcome to all the participants and explained the goal & possible benefit of the SHGs.

Ms. Sukumati Mardi Mukhiya, Rapcha suggested that all the SHG members those who attending workshop to promote livelihood activities in their group for self-sustainability. Mr. Modi, Master Trainer shared about possible livelihood opportunities with the participants.

After that some of the SHG members from Kandra, Srirampur, Rapcha, Pindrabera shared their experiences and exhibited their products in front of the participants in their local dialect. We launched New brand of Agarabatti “Smile Agarabatti”

Income Generating Activities:

Agarabatti production at Srirampur: Jagriti Mahila Samiti (Self-help group) of Srirampur engaged in making of Agarabatti with help of Adhunik Power & Natural Resources Limited, Padampur under support of company CSR. This has helped them in increasing corpus fund for their group. They have made this activity as their livelihood.



Murhi packages and selling (trading) & spice making: 15 - Members of Jaher Ayo Mahila Samiti Self-help group of Pindrabera engaged in Murhi packaging and selling (trading). This has helped them in increasing corpus fund for their group. They have made this activity as their livelihood. They earned about Rs. 5000/- to -



6000/- per month. Also the members of Mahila Samiti (SHG) engaged in spice making as their livelihood.

Mansa Devi Self-help Group initiates Phenyl production at Srirampur: Adhunik Power & Natural Resources Limited (APNRL), Padampur support to Mansa Devi Self-help Group, Srirampur for Phenyl Making at Srirampur Village of Dugdha Gram Panchayat to promote sustainable livelihood for the poor and vulnerable groups such as village women. Phenyl making and selling has helped them in increasing corpus fund for their group. They earned Rs. 2000/- to 3000/- every month.



Ms. Vimla Tirky, Lady Extension Officer (LEO) -Gamharia, visited on 21.4.2017 at Srirampur. She interacted with the SHG members and also reviewed the status of phenyl production and records. She advised to increase production and marketing and proper documentation of products.

International women's day: On 8th March 2018, a seminar on **International women's day** was organized by



CSR dept at Dugdha Gram Panchayat where about 200 village women/girls participated. At the programme, Mrs. Vimola Tirkey, Lady Extension Officer, Sarikela was the chief guest inaugurated the Seminar with candle enlightening where the Mukhiya Ms. Malti Hansda, Dugdha Gram Panchayat, Mr. Sanjeet Kumar Sinha Sr. Manager CSR, Mr. Ajeet Kumar Asst. Manager-CSR, Ms. Sunita Besra-CSR, Ms. Laxmi Devi-CSR and doctor's team of Family Planning Association (FPAI) of India, Jamshedpur also attended the

programme to motivate and aware village women about their rights with a sense of development. Ms. Vimola Tirkey addressing the participants focused on Women rights. She requested women attending seminar to promote girls education and livelihood activities in their village as well as their community also.

The Mukhiya, Ms. Malti Hansda, Dugdha Gram Panchayat, Dugdha gave warm welcome to all the



participants shared the history how it began. She informed that it is celebrated to enhance the worldwide awareness about women, their rights, contributions, importance of education, career opportunities and she thanked to Adhunik group to provide several livelihood opportunities for the village women.

At the event, Two Boxes provided by APNRL to Self Help Groups namely Grih Laxmi Mahila Samiti, Dugdha & Shiv Mahima Mahila Samiti, Haridih to keep records of Samiti. This year 2018 International Women's Day theme was "Press for progress". Vote of thanks given by Ms. Sunita Devi- CSR.

Infrastructure:

Repairing of Village Road, Chhotahariharpur: Adhunik Power & Natural Resources Limited, Padampur has been instrumental in improving socio-eco conditions of local communities around



which the company is operative. In this background, a meeting was convened by villagers of Chotahariharpur with the CSR team. During the meeting, the status of developmental projects being executed under Adhunik's CSR was discussed where the villagers requested for company interventions towards repairing of Chhotahariharpur - Barahariharpur village road which is in pitiable condition.

The villagers told that the condition of village road is so bad that an accident may occur any time due to the ditches it has i.e. there is a high risk of accident. The road needs to be repaired immediately for which the villagers requested to the company. CSR team paid a visit to the site along with the villagers and found that the road is damaged severely and hence arranged to provide the Slag (waste material of plant) on 10.11.2017 to fill up the ditches. Villagers were so excited that they started leveling of the slag on road themselves manually without wait of company's JCB which shows a good example of community participation for a noble cause. Now, the road is repaired and villagers are happy for the work.

Media:



उदित वाणी
 महिलाओं को दी गयी अधिकारों की जानकारी
 आदित्यपुर में 07 अगस्त 2017 को आयोजित कार्यक्रम में महिलाओं को उनके अधिकारों के बारे में जानकारी दी गई। कार्यक्रम में महिलाओं को उनके अधिकारों के बारे में जानकारी दी गई। कार्यक्रम में महिलाओं को उनके अधिकारों के बारे में जानकारी दी गई।



राफचा में स्वास्थ्य जागरूकता रैली निकली
 गम्हरिया। राफचा गांव में स्वास्थ्य जागरूकता रैली निकली गयी। पंचायत की मुखिया सुकुमती झाड़ी के नेतृत्व में आयोजित कार्यक्रम में विद्यालय के बच्चों ने भाग लिया। स्लोगन लिखी तख्तियां लेकर बच्चों ने सफाई के नारे लगाए। ग्रामीणों से स्वच्छता अपनाकर स्वस्थ रहने की अपील की गयी। मुखिया ने कहा कि व्यक्तिगत के साथ सार्वजनिक स्थल की सफाई से स्वच्छ पंचायत का निर्माण किया जा सकता है। इस अवसर पर संजीव कुमार सिन्हा, सुनीता ब्रेसरा, लक्ष्मी देवी, माधुरी दुह, कृति माहली आदि उपस्थित थे।

गम्हरिया : महिला दिवस पर सेमिनार आयोजित
 गम्हरिया पंचायत की लगभग 220 महिलाओं ने अधिकार एवं कर्तव्य की जानकारी हासिल की। पदमपुर स्थित आधुनिक पावर एंड नेचुरल रिसोर्सेस लिमिटेड की ओर से दुग्धा पंचायत भवन में आयोजित सेमिनार में जीविकोपार्जन के नए आयाम व स्वावलंबी बनने पर जोर दिया गया।



आधुनिक पावर
 गम्हरिया पंचायत की लगभग 220 महिलाओं ने अधिकार एवं कर्तव्य की जानकारी हासिल की। पदमपुर स्थित आधुनिक पावर एंड नेचुरल रिसोर्सेस लिमिटेड की ओर से दुग्धा पंचायत भवन में आयोजित सेमिनार में जीविकोपार्जन के नए आयाम व स्वावलंबी बनने पर जोर दिया गया।

ग्रामीण महिलाओं को दी गयी पोषण की जानकारी



गम्हरिया : स्वस्थ समाज व स्वस्थ भारत के लिए उचित पोषण व पौष्टिक पोषाहार को अत्यंत आवश्यक है. भोजन में पोषक तत्वों की कमी से बच्चे एवं बड़े गंभीर बीमारी के शिकार हो रहे हैं. आधुनिक पावर एंड नेचुरल रिसोर्सेज लिमिटेड के सौजन्य से बड़ा हरिहरपुर सामुदायिक भवन में पोषण सप्ताह पर आयोजित 'शिशु की देखरेख और ऊपरी पोषाहार' विषय पर सेमिनार में जिला कल्याण पदाधिकारी सुरुचि प्रसाद ने यह बातें कही. क्षेत्र के गरीब महिलाओं को पोषण की जानकारी देने के लिए सेमिनार आयोजित किया गया था. कार्यक्रम की मुख्य अतिथि प्रखंड प्रमुख अमृता दुडू ने कहा की स्वास्थ्य ही सबसे बड़ा धन है. इस बात को ध्यान में रखते हुए उचित पोषण व पौष्टिक पोषाहार पर ध्यान देने की जरूरत है. कार्यक्रम में एलडिओ विमोला तिवारी, संजीत सिन्हा, श्रीमंत महतो, लक्ष्मी देवी व सुनीता बेसरा, अजीत कुमार आदि उपस्थित थे.

रक्तदान शिविर में 50 यूनिट रक्त संग्रह



गम्हरिया. पदमपुर स्थित आधुनिक पावर एंड नेचुरल रिसोर्सेज लिमिटेड कंपनी में रक्तदान शिविर का आयोजन किया गया. इसमें 50 यूनिट रक्त संग्रह किया गया. शिविर का आयोजन आधुनिक पावर एंड नेचुरल रिसोर्सेज लिमिटेड कंपनी ने शनिवार को गैर सरकारी संस्था वोलेण्टियर ब्लड डोनेशन एसोसिएशन व जमशेदपुर ब्लड बैंक के सहयोग से कंपनी परिसर में स्थित स्वास्थ्य केंद्र में किया. इसका उद्घाटन रवींद्र अग्रवाल ने रक्तदान कर किया. इस मौके पर राकेश गुप्ता, संजीत सिन्हा, ग्राम प्रधान कृष्णा बास्के, एसके परवेज, मनिंद्र सिंह, कमलेश कुमार के अलावा पिंड्राबेड़ा, रामजीवनपुर, बड़ा हरिहरपुर, श्रीरामपुर, छोटा हरिहरपुर, पदमपुर आदि गांव के अलावा आधुनिक पावर के कर्मचारियों व अधिकारी आदि शामिल थे.

Daily News Paper- Prabhat Khabar 26.11.2017



जमशेदपुर, बुधवार, 13 जुलाई 2017 **उदित वाणी**
बच्चों ने निकाली स्वास्थ्य जागरूकता रैली
 गम्हरिया : प्रखंड के रपवा गांव में स्वास्थ्य जागरूकता रैली का आयोजन किया गया. मुखिया सुकुमति माई के नेतृत्व में आयोजित कार्यक्रम में कामे सख्या में स्कूली बच्चों ने भाग लेकर प्लोग लिखी तख्तियां लेकर स्वच्छता के नारे लगाए. इस दौरान मुखिया ने कहा कि व्यक्तिगत के साथ-साथ सार्वजनिक स्थलों की साफ-सफाई से ही स्वच्छ पंचायत का निर्माण किया जा सकता है. उन्होंने शौचालय का निर्माण प्रत्येक घर में कराने तथा इसके उपयोग को अपील ग्रामीणों से किया. इस मौके पर गाँव में क्लीनिंग पावडर का छिड़काव कर मलेरिया, डायरिया समेत अन्य बीमारियों से बचने के लिए खान-पान पर विशेष ध्यान देने की अपील ग्रामीणों से की गई. इस मौके पर संजीत कुमार सिन्हा, सुनीता बेसरा, लक्ष्मी देवी, माधुरी दुडू, कृति माहली आदि उपस्थित थे.

Details of Local Employees

10/11/2022 (2)

S. No.	E.Name	Department
1	Mr. Arun Mahato	Electrical
2	Mr. Rajen Kumar Tudu	WTP, Utilities
3	Mr. Bangal Majhi	Civil
4	Mr. Lal Mohan Mahato	Horticulture
5	Mr. Budhram Baskey	Operation
6	Mr. Ajit Mahato	Operation
7	Mr. Bijay Baskey	Maintenance
8	Mr. Laxman Baskey	Medical Services
9	Mr. Raja Ram Majhi	Automobile
10	Ms. Paneshwari Kumari	Civil
11	Mr. Sunil Baskey	Coal Logistics
12	Mr. Nuna Baskey	Automobile
13	Mr. Rajesh Kumar Mahato	Operation
14	Mrs. Sonia Baskey	Electrical
15	Mrs. Surajmani Baskey	EMD
16	Mrs. Saraswati Devi	Medical Services
17	Mrs. Anita Mahato	Maintenance
18	Mrs. Bangi Baskey	AHP
19	Mr. Raju Tudu	Electrical
20	Mr. Ruhi Ram Majhi	Maintenance
21	Mr. Dilip Mahato	DM Plant
22	Mr. Dulal Mahato	Fire
23	Mr. Raju Mahato	DM Plant
24	Mr. Santosh Mardi	Electrical
25	Mr. Rajesh Mahato	Electrical
26	Mr. Mohan Lal Mahato	Electrical
27	Mr. Sumit Kumar Mahato	Electrical
28	Mr. Tapan Kumar Mahato	Electrical
29	Mr. Bibhishan Mahato	Automobile
30	Mr. Suku Murmu	Automobile
31	Mr. Bimal Kumar Mandal	Operation
32	Mr. Bablu Besra	Operation
33	Mr. Vikram Baskey	Maintenance
34	Mr. Mangal Besra	Operation
35	Mr. Bir Singh Hembrom	Maintenance
36	Mr. Gopal Hembrom	Operation
37	Ms. Chhatamuni Baskey	Stores
38	Mr. Durga Hembrom	Operation
39	Mr. Suren Baskey	Operation
40	Mr. Dasmath Hembrom	Operation
41	Mr. Budheswar Baskey	Operation
42	Mr. Karan Hembrom	Operation
43	Mr. Umesh Tudu	Operation
44	Mr. Birendranath Baskey	Medical Services
45	Mr. Shailendra Tudu	Medical Services
46	Mr. Birdhan Baskey	Civil
47	Mr. Anil Sardar	Civil
48	Mrs. Sarla Majhi	Admin.
49	Mrs. Sunita Devi	CSR
50	Mr. Sohan Kisku	Electrical
51	Mr. Dilip Kisku	Electrical
52	Mr. Rabindra Nath Majhi	Operation
53	Mr. Mokra Murmu	Electrical
54	Mr. Lakhiram Tudu	Maintenance
55	Mr. Durga Baskey	Maintenance
56	Mr. Jiten Hansda	Operation
57	Mr. Jiten Sardar	Operation
58	Mr. Ashok Kumar Mahato	Operation
59	Mr. Mangal Majhi	Electrical
60	Mr. Sagram Tudu	Electrical
61	Mr. Sunil Kumar Tudu	Operation
62	Mr. Ganesh Mahato	Electrical
63	Mr. Sachin Kumar Tudu	Operation
64	Mr. Alok Mahato	Electrical
65	Mr. Rakesh Kumar Mahato	Operation

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66	Mr. Chhotray Majhi	Operation
67	Mr. Devi Lal Majhi	Ash Loading
68	Mr. Govind Majhi	Electrical
69	Mr. Kalipada Singh Sardar	CHP
70	Mr. Vikram Singh Sardar	Intake Well
71	Mr. Manik Singh Sardar	Intake Well
72	Mr. Jagannath Singh Sardar	Intake Well
73	Mr. Budheshwar Mahato	Intake Well
74	Mr. Krishna Manjhi	CHP Lab
75	Mr. Sakia Hembrom	CHP Lab
76	Mr. Uttam Kumar Mahato	Maintenance
77	Mr. Shikar Hembrom	C&I
78	Mr. Ranjit Besra	CHP Lab
79	Mr. Hopna Baskey	Operation
80	Mr. Sona Ram Baskey	Operation
81	Mr. Suku Majhi	AHP
82	Mr. Gopal Majhi	Operation
83	Mr. Ramdas Kisku	Operation
84	Mr. Som Murmu	Operation
85	Mr. Khirod Chandra Mahato	C&I
86	Mr. Sona Ram Hembrom	C&I
87	Mr. Ram Hembrom	CHP Lab
88	Mr. Rajesh Mahato	C&I
89	Mr. Nimay Mahato	DM Plant
90	Mr. Peeton Baskey	CHP Lab
91	Mr. Raju Baskey	CHP Lab
92	Mr. Bablu Baskey	CHP Lab
93	Mr. Baijnath Mardi	Planning & Monitoring
94	Mr. Nitai Sardar	Planning & Monitoring
95	Mr. Baliram Murmu	Planning & Monitoring
96	Mr. Karu Tilka Majhi	C&I
97	Mr. Rajendra Hembrom	Maintenance
98	Mr. Jitu Hembrom	CHP Lab
99	Mr. Soken Tudu	C&I
100	Mr. Umesh Baskey	AHP
101	Mr. Anil Tudu	CHP Lab
102	Mr. Akash Tudu	Stores
103	Mr. Sushil Kumar Tudu	CHP Lab
104	Mr. Mahendra Tantubai	Electrical
105	Mr. Prakash Tudu	Stores
106	Mr. Karu Besra	C&I
107	Mr. Bangal Tudu	CHP Lab
108	Mr. Ravindra Nath Tudu	Electrical
109	Mr. Som Majhi	CHP Lab
110	Mr. Salku Tudu	AHP
111	Mr. Sukram Tudu	CHP Lab
112	Mr. Jeevan Manjhi	CHP Lab
113	Mr. Birsda Hansda	Operation
114	Mr. Surja Hansda	CHP Lab
115	Mr. Sanjay Mandal	C&I
116	Mr. Budhadev Mahato	C&I
117	Mr. Narayan Mahato	Operation
118	Mr. Jai Chand Mahato	Maintenance
119	Mr. Mithun Majhi	C&I
120	Mr. Sumit Kumar Mahato	DM Plant
121	Mr. Mantu Mahato	CHP Lab
122	Mr. Santosh Sardar	CHP Lab
123	Mr. Ranjit Singh Sardar	CHP Lab
124	Mr. Lal Mohan Mahato	CHP Lab
125	Mr. Sohan Sardar	CHP Lab
126	Mr. Paga Sardar	Maintenance
127	Mr. Shibanath Singh Sardar	Environment
128	Ms. Basanti Singh Sardar	Electrical
129	Mr. Kali Pado Sardar	Environment
130	Mr. Mangal Manzi	Civil

Adhunik Power & Natural Resources Ltd, Padampur

WATER SAMPLE ANALYSIS RESULT OF GUARD POND

Sr. NO	Parameters	LIMIT AS PER E(P) A FOR INLAND SURFACE WATER DISPOSAL	Unit	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018
1	Total Cr	2	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2	Copper	3	mg/L	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
3	Zinc	5	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4	Phosphates	5	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
5	pH	5.5 to 9	-	7.2	7.6	7.2	7.6	7.2	7.1
6	Suspended Solids	100	mg/L	39	38	26	24	22	25
7	Oil & Grease	10	mg/L	2.1	N.D.	N.D.	N.D.	N.D.	N.D.
8	BOD 3 day 27 Deg. C	30	mg/L	1.6	1.6	1.3	1.1	1.6	1.6
9	COD	250	mg/L	16.7	12.8	16.4	15.9	15.4	15.6
10	TDS	-	-	469	561	357	361	361	456
11	Chloride	-	-	235	244	213	218	223	223
12	Sulphate	-	-	21.9	22.8	20.6	21.9	22.4	21.3
13	Iron	3	mg/L	0.63	0.67	0.41	0.43	0.45	0.52

* Treated Water used for dust suppression & Horticulture work.

Adhunik Power & Natural Resources Limited, Padampur

NOISE LEVEL MONITORING REPORT

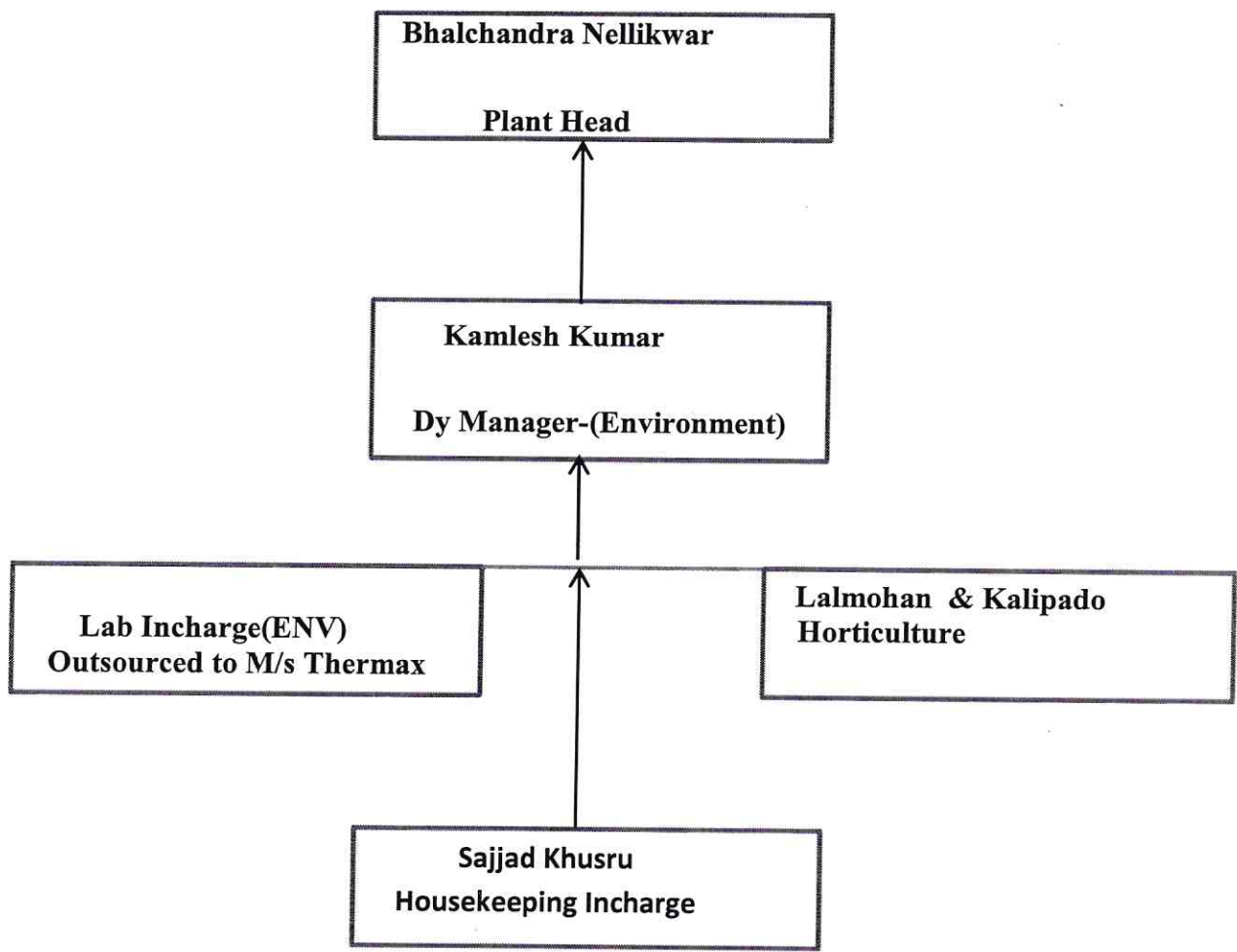
Sl.No.	LOCATION	NEAR MAIN GATE		ADMINISTRATIVE BUILDING				COAL YARD		NEAR COOLING	BOILER FEED	TURBINE FLOOR
		75 dBA	70 dBA	75 dBA	70 dBA	75 dBA	70 dBA	75 dBA	70 dBA			
	CONSENTED NORMS	Day	Night	Day	Night	Day	Night	Day	Night	85dBA		
1	Oct-17	62.3	45.6	59.4	43.6	74.3	56.1	75	82	84		
2	Nov-17	58.4	49.7	56.7	45.5	74.6	56.4	76	81	83		
3	Dec-17	56.3	35.1	46.8	34.7	65.4	52.9	75	81	83.1		
4	Jan-18	55.2	36.4	46.1	35.4	67.8	55.1	73	82	83.7		
5	Feb-18	56.8	36.9	47.1	36.4	65.2	54.6	72	84.6	82.9		
6	Mar-18	57.3	36.9	49.2	35.9	71.6	51.3	77	82	84		

Adhunik Power & Natural Resources Limited, Padampur

AMBIENT AIR QUALITY MONITORING REPORT

Sl.No.	LOCATION →	GET Hostel				Switch Yard				CHP area						
		PM 10	PM 2.5	SO2	NOX	PM 10	PM 2.5	SO2	NOX	PM 10	PM 2.5	SO2	NOX			
	PARAMETERS															
	AS PER															
	CONSENTED	100 µg/m ³	60 µg/m ³	80 µg/m ³	80 µg/m ³	100 µg/m ³	60 µg/m ³	80 µg/m ³	80 µg/m ³	100 µg/m ³	60 µg/m ³	80 µg/m ³	80 µg/m ³	100 µg/m ³	60 µg/m ³	80 µg/m ³
	NORMS															
1	Oct-17	69.7	49.7	10.3	7.6	79.4	51.6	9.4	7.1	83.5	52.6	12.4	8.6			
2	Nov-17	70.3	45.9	11.6	9.1	79.2	51.3	10.4	8.6	88.1	56.3	10.9	8.7			
3	Dec-17	56.9	35.4	12.5	9.4	70.6	45.9	11.8	8.3	75.6	56.7	13.4	11.2			
4	Jan-18	58.9	39.4	12.3	10.6	72.6	43.9	10.3	9.4	74.5	54.9	12.8	10.2			
5	Feb-18	60.1	41.3	11.9	9.2	73.1	41.2	10.6	8.9	77.4	55.3	11.6	9.4			
6	Mar-18	54.6	36.4	11.9	9.7	72.6	48.6	10.6	9.4	82.4	58.4	12.3	10.3			

ORGANISATION CHART ENVIRONMENT MANAGEMENT CELL





ADHUNIK POWER & NATURAL RESOURCES LTD.

(Formerly Adhunik Thermal Energy Limited)

Office : Village Padampur, Behind PGCIL Substation, Adityapur, Kandra Road, P.O: Kandra Saraikela-Kharsawan, Jharkhand-832 402 ☎ PHONE : 0657 6628400 ☎ FAX : 0657 6628440
Website : www.adhunikgroup.com

Ref No APNRL/JSPCB/ES/2016-17/02

Date: 15th Sep 2017

The Member Secretary
Jharkhand Pollution Control Board
Jharkhand

Sub- Submission of Environmental Statement (Form V) for Unit II (1 x 270 MW) of M/s Adhunik Power & Natural Resources Limited, Village- Padampur, Dist- Saraikela-Kharswan, Jharkhand.

Ref: Environmental Clearance letter No J-13012/8/2009-IA.II(T), Dated 09th May 2011.

Dear Sir,

In line with compliance of above referred EC letter point No XIII of general condition, Please find attached herewith Environmental statement (Form V) for the financial year 2016-17.

This is for your kind information & record please.

Thanking You

Your's faithfully

Bhalchandra Nellikwar
(Plant Head)

Encl: As mentioned above

CC: 1. The Regional Office (ECZ)

Ministry of Environment & Forest & Climate Change,
Bungalow No. A-2, Shyamali Colony, Ranchi-834002

2. The Regional Officer

Jharkhand Pollution Control Board
Jamshedpur



Regd. Office : 14, Netaji Subhas Road, II-Floor, Kolkata - 700 001, Phone : 2243-1355, 2242-8551

Works: Padampur, Saraikela. Kharswan, Jharkhand

CIN U40101WB2005PLC102935



Adhunik
GROUP OF INDUSTRIES

ADHUNIK POWER AND NATURAL RESOURCES LIMITED

WORKS : Village - Padampur, Behind P.G.C.I.L Substation,
Adityapur Kandra Road, Saraikela - Kharswan : 832402, Jharkhand
Phone: + 91-657-6628400, Fax: + 91-657-6688440

Ref: MOE&F, RNC/HYC/BN/281217/02

Dated: 28.12.2017

To,

Regional Office (ECZ),
Ministry of Environment, Forest and Climate Change,
Bungalow No. A-2, Shyamali Colony,
Ranchi - 834002

Sub:- Submission of Half yearly compliance status report (Unit II) for the period -
April 2017 to September 2017,-Reg.

Ref:- MoEF EC letter No.J-13012/8/2009-IA.II(T), Dated 09th May 2011.

Sir,

With reference to the above referred Environmental Clearance, we are pleased to submit
herewith the half yearly compliance status report (Unit II) for the period of April 2017 to
September 2017.

This is for your reference and record, please.

Thanking you,

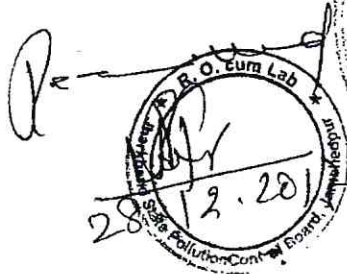
For Adhunik Power & Natural resources Limited

(Authorized Signatory)

Encl: As Above

Copy to:

- ii) Central Pollution Control Board, Kolkatta
- ii) Member Secreatry, Jharkhand State Pollution Control Board, Jharkhand
- iii) Regional Officer, JSPCB, Jamshedpur



Adhunik Power & Natural Resources Ltd.

**Recurring cost incurred on Environment protection measures of M/s
Adhunik Power & Natural Resources Ltd. Year 2017-18(in Lakhs)**

SI No	Description of Environment Measures	April 2017- March 2018						Total cost (Unit I & Unit II)
		Unit I			Unit II			
		Energy	Other cost	Total Cost	Energy	Other cost	Total Cost	
1	ESP operation & Maintenance	126.54	3.26	129.80	65.94	3.26	69.20	199.00
2	ETP & STP operation & Maintenance	9.62	1.69	11.31	9.62	1.69	11.31	22.62
3	Plant Housekeeping	0.00	91.87	91.87	0.00	91.87	91.87	183.74
4	DE System Operation & Maintenance	8.63	0.94	9.57	14.63	1.96	16.59	26.16
5	DS operation & Maintenance	0.19	2.45	2.64	0.19	1.23	1.42	4.06
6	Green Belt development	0.10	8.00	8.10	0.10	8.00	8.10	16.20
7	Environment Management system(Monitoring, Equipment Calibration, Celebration of Environment Programmes & Preparation of Environment Audit, ESMS report)	0.61	3.26	3.87	0.56	3.26	3.82	7.69
8	Ash disposal system	0.00	880.76	880.76	0.00	880.76	880.76	1761.52
9	Rain water harvesting system	0.00	0.12	0.12	0.00	0.12	0.12	0.24
10	CAAQMS & CEMS Operation & Maintenance	0.23	1.58	1.81	0.23	0.96	1.19	3.00
		145.92	993.93	1139.85	91.27	993.11	1084.38	2224.23