



A Maharatna Company

एन टी पी सी लिमिटेड
(भारत सरकार का उद्यम)

NTPC Limited
(A Govt. of India Enterprise)

कोयला खनन परियोजनाएँ, हजारीबाग
Coal Mining Projects, Hazaribag

Ref:- 1040/PBCMP/Mining/2017/F-47/24851

Date:17.01.2017

To

The Additional Principal Chief Conservator of Forest (Central),
Ministry of Environment, Forests and Climate Change,
Regional Office (ECZ), Bungalow No. A-2, Shyamli Colony,
Ranchi – 834002, email ro.ranchi-mef@gov.in

Kind Attention Dr T.H.Mahato , Scientist C.

Sub: Submission of Half yearly Environment Monitoring Report (HYMR) of Environmental Clearance for Pakribarwadih Coal Mining Project (15 MTPA).

Ref1: EC Ltr No.J-11015/692/2007-IA.II(M) Dated 19th May 2009.

Ref 2 : EC Amendment Ltr No J-11015/692/2007-IA-II(M) Date 29.06.2016

Dear Sir,

Please find enclosed the Half yearly Environment Monitoring Report (HYMR) of Environmental Clearance (EC) of Pakri Barwadih Coal Mine Block for the period from **June 2016 to November 2016** for your kind perusal.

This is for your kind information please.

Thanking you,

Encl: A/a.

Yours faithfully

Pm Prasad
P.M.Prasad, *17/1/2017*
Executive Director,
PB,CB, KD CMP,
NTPC Ltd,Hazaribagh.

CC:

1. Zonal Officer, Kolkata, Central Pollution Control Board, Southern Conclave, Block 502, 5th & 6th Floors, Rajdhanga Main road, Kolkata -700 107 (W.B.), email rcsaxenaa@rediffmail.com
2. Regional Officer, Jharkhand State Pollution Control Board, PTC Chowk Hazaribagh. Jharkhand.

कोल खनन परियोजनाएँ, उज्जवल कॉम्प्लेक्स, पगमिल रोड, हजारीबाग- 825301, फोन + फैक्स - 06546-270749
Coal Mining Projects, Ujjwal Complex, Pugmil Road, Hazaribag - 825301, Tele Fax : 06546-270749
Registered Office : NTPC Bhawan Scope Complex, 7 Institutional Area, Lodhi Road, New Delhi - 110 003



Transforming lives

Half Yearly EC Compliance Report June -2016 to November 2016

(EC Clearance Ltr. No.J-11015/692/2007-IA.II (M) Dated 19th May 2009,
Amendment Ltr No J-11015/692/2007-IA-II (M) Date 29.06.2016)

**Pakri Barwadih Coal Mining Project,
NTPC Limited,
Hazaribagh Jharkhand.**

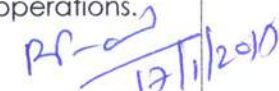
HALF YEARLY ENVIRONMENTAL MONITORING REPORT
(For the Period June 2016 to November 2016)

COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
EC Clearance Ltr. No.J-11015/692/2007-IA.II (M) Dated 19th May 2009
& Amendment Ltr No J-11015/692/2007-IA-II (M) Dated 29.06.2016

SL No	Conditions	Compliance/ Status as on 30 th November, 2016
SPECIFIC CONDITIONS		
I	The environmental clearance is restricted to Phase-1 of 39 years of opencast operations involving 3319.42 ha of ML area only for which exploration has been completed.	Noted and the said stipulation will be complied.
II	No mining operations shall be undertaken in the forestland within the ML until clearance has been obtained under the provisions of FC Act, 1980.	Stage-II forest clearance has been accorded under the provisions of FC Act, 1980. i. Stage I Clearance obtained vide letter no. "F.No 8-56/2009, dated 11 th May 2010", ii. Stage II Clearance obtained vide letter no. "F.No 8-56/2009, dated 17 th Sept 2010", iii. Final land release letter received from the State Govt. vide letter no. 3/Vanbhoomi-75/2009-1240 dated 31.03.2011. Copy attached as Annexure -1.
III	The monolith found within the core zone shall not be disturbed by the mining operations and a minimum 500m distance along with thick green belt would be maintained between the eastern quarry and the monolith. A road would be created upto the monolith a park created around it so that the monolith could be visited.	Protection of monolith found if any within core zone shall be done and its development by creating an approach road and maintaining park & green belt was planned. The contract for preparation and development of Monolith was awarded to BIT Mishra. The later has submitted the proposal in detail. Following the course of action for execution of the work, land acquisition is under progress.
IV	Mining shall be carried out as per statute from the streams/nallahs flowing within the lease. Embankment to be constructed shall be based on peak flow data and shall be at least 3m above the HFL. The slope of the embankment shall at least 2:1 towards the ML and shall be stabilized with plantation. The CWPRS would be engaged for the design and study of realignment of the drains / nallas flowing across the ML and creation of embankment, and also obtain approval of the State Government for diversion of the nallas.	Mining is being carried out as per DGMS permission with all precautions regarding the danger of streams / nallahs flowing within lease area. CWPRS has undertaken the study for design and realignment of drains/ nallahs flowing across Mine Lease and creation of embankment and submitted their report. NOC has been obtained from the State Water Resources Dept. vide letter no. 2 / PMC/ND-171/2012-224 dated 19.03.2013. Minor Irrigation Dept, Govt of Jharkhand, has agreed to take up the work and detailed design and estimate is under preparation by the Minor Irrigation Dept. The Dept. has completed the design of the check dams.
V	Topsoil should be stacked properly with proper slope at earmarked site(s) and	Top soil is being collected and stacked properly at earmarked site since opening

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	should not be kept active and shall be used for reclamation and development of green belt.	of mine with proper protective measures say retaining wall at toe of the top soil dump. The same will be strictly used for reclamation and development of green belt.
VI	OB should be stacked at earmarked three external OB dumpsite within ML area of a maximum height of 90m.	As per approved Mine Plan OB is being stacked at earmarked area of Dump C at maximum height 90 meter.
	A minimum of 500m shall be maintained and thick green belt developed between the habitation and OB dumps particularly that of Barkagaon.	A Distance of 500 m will be maintained and thick green belt will be developed between the habitation and OB Dumps particularly that of village Barkagaon.
	The option of raising the level of grazing land created after backfilling the quarry by 10m or so shall be examined so to reduce the overall OD dump height.	Grazing land of 223 Ha will be developed on back filled quarry of western & eastern part
	Slope stability tests may be undertaken and the feasibility of backfilling depending on the type of cost effective technology available at that stage shall be re-examined.	Presently mining is under initial stage, Slope stability test will be undertaken during the full phased operation of mines and formation of the dumps.
	The ultimate slope of the dump shall not exceed 28°.	The ultimate slope of the dump will be kept restricted to 28 degree.
	Monitoring and management of reclaimed dumpsite should continue until the vegetation becomes self-sustaining.	Monitoring & management of reclaimed dump site shall be carried out till the vegetation becomes self-sustaining.
	Compliance status should be submitted to the Ministry of Environment & Forests and its Regional office located at Bhubaneswar on yearly basis.	The half yearly compliance report is being submitted regularly to the MoEF & CC Regional office Ranchi. Recent report (December 2015 to May 2016) submitted vide reference number 7010/PBMP/mining/2016/F-47/316 dated- 08/09/2016.
VII	Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also provided adequate retention period to allow proper settling of silt material.	Presently Garland drains have been provided along the periphery of the initial mining area to arrest silts. Catch drains have been provided along the top soil dump. Catch drains will be also provided at external dumps, workshop, offices etc. to direct the rain water to siltation pond at sump area to arrest silts and further to direct water to main sump of adequate capacity with 50% safety margin. Water collected will be utilized for water sprinklers for dust suppression for the mine area roads, green belt development etc. The drains will be regularly desilted and maintained properly. The main sump is proposed in the de-coaled area at dip most side so as to provide adequate retention period to allow proper settling of silt material.
VIII	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation should	The construction of the retaining wall at the toe of the top soil dump is under progress with the height of 2 meter above

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	be based on the rainfall data.	the ground with the width of 2 meter. The trench will be made in parallel to the retaining wall. Photographs enclosed as Exhibit-1.
IX	(The main haul road of 6 km within the core zone shall be metaled. A 3-tier avenue plantation shall be developed along the main approach roads and haul roads. Mineral transportation from CHP to Railway siding shall be by closed belt conveyor of a length of 7km. The railway siding shall be provided with Silo Rapid Loading System.)	With the development of mine, the main haul road will be gradually converted into metalled road with 3 tier avenue plantation all along the approach road. MoEF & CC vide letter dated 29.06.2016 accorded permission for dispatch of coal by road to Banadag Railway siding for an interim period of two years. 50% of work for closed belt conveyor for coal transportation has been completed and work is under progress.
	Condition IX, Amendment vide letter number- J-11015/692/2007-IA-II(M) Date 29.06.2016 The coal shall be transported through closed belt conveyor system of a length of 13 km to Banadag railway station. The project proponent is permitted for (2) two year to use State Highways/public roads for transportation of coal (approx. 35 km) to Banadag railway siding by adopting all mitigative measure to control dust pollution. The project proponent shall put all efforts to expedite completion of service road for belt conveyer so that the same can be utilized for coal transportation by road.	Transportation of coal from CHP will be done in elevated closed conveyor to Railway siding near Banadag Railway station provided with Silo loading facility. However permission of MoEF & CC has been taken vide Amendment vide letter number- J-11015/692/2007-IA-II(M) Dated 29.06.2016 for dispatch of coal by road to Banadag Railway siding for a interim period of two years. All precautions will be taken to avoid air pollution.
X	Drills should be wet operated only.	<ul style="list-style-type: none"> • Presently mining is at initial stage, only top soil removal is under progress. • Sufficient and regular water spraying is being in practice in the drilling area. • Wet drill provision is deployed with wet cutting arrangements. • Personnel engaged in drilling operation are provided with appropriate PPEs i.e. dust mask and ear plugs.
XI	Controlled blasting should be practiced with use of delay detonators. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented.	Controlled blasting technique with most effective blasting design are formulated & implemented to minimize ground vibration and to avoid fly rocks & boulders.
XII	No additional groundwater (bore well) shall be used for mining operations. Additional water if any required for the project shall be used from recycled water or mine discharge water or rainwater collected in rainwater harvesting pits within the CML.	Only recycled water, mine discharge water and water collected from rain water harvesting pits within coal mine lease (CML) area is being used as additional water for mining operations.



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XIII	Regular monitoring of groundwater level and quality should be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring for quantity should be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected should be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring. Rainwater structures shall be erected in the core and buffer zone, in case monitoring indicates a decline in water table.	<p>Piezometers have already been purchased and Installed at different locations of core and buffer zone of ML area for regular monitoring of ground water level as per stipulation. The monitored data will be gathered and submitted quarterly to Ministry of Environment & Forests and Climate Change (MoEF&CC) & Central Pollution Control Board (CPCB). Photographs enclosed as Exhibit-2.</p> <p>Rain Water Harvesting shall be implemented in the core and buffer zone, in case monitoring indicates a decline in water table during mining operation.</p>
XIV	The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	Regular monitoring of the ground water table in the surrounding villages is being done and necessary action will be taken in case the village wells go dry due to dewatering from the mine.
XV	<ul style="list-style-type: none"> • Sewage treatment plant of adequate capacity shall be installed in the colony. • ETP should also be provided for workshop and CHP wastewater. • Treated wastewater meeting prescribed norms only shall be recycled for mining operations to the extent possible and permitted to be discharged in to the natural water courses only if it meets the prescribed standards. 	<ul style="list-style-type: none"> • Provision of sewage treatment plant of adequate capacity will be made for effective treatment of domestic effluent emanating from NTPC and MDO colony within the prescribed statutory standards. The treated sewage water shall be used for plantation and horticulture purpose. • Dedicated ETP will be installed for the effective treatment of industrial effluents from Mine workshop and CHP area. • Only treated waste water conforming to prescribed statutory norms will be re-cycled/re-used for mining operation to the extent possible and the excess will be discharged into natural water course only if it meets the prescribed standards.
XVI	The total area that shall be brought under afforestation at the time of mine closure shall not be less than 1199 ha which includes reclaimed topsoil soil dump area (25 ha), external OB dump (632 ha), backfilled area (524 ha), along ML boundary, embankment and undisturbed area, along roads and infrastructure, green belt (18 ha), and in township outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.	<p>Efforts will be made to undertake adequate afforestation in the ML area at the time of mine closure in consultation with the local DFO/state forest department.</p> <p>Also the tree density of around 2500 plants/ha shall be maintained.</p>

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17/11/2017

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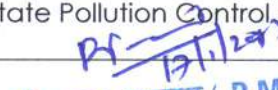
SL No	Conditions	Compliance/ Status as on 30 th November, 2016
XVII	<p>A Progressive Mine Closure Plan shall be implemented by reclamation of 524 ha, of the total quarry area of 1785 ha, which shall be backfilled and afforested by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha. Of the total reclaimed backfilled area, 223 ha shall be grazing land and 442 ha shall be agricultural land for utilisation of the villagers .</p> <p>Of the balance 1261 ha of quarry area, an area of 596 ha of decoladed area/void being converted into a water reservoir shall be gently sloped and the upper benches of the reservoir shall be terraced and stabilized with plantation and the remaining 665 ha is for public use for Phase-2 of the project.</p>	<p>A progressive mine Closure Plan will be implemented as per stipulation.</p>
XVIII	<p>Besides carrying out regular periodic health check up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check up for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmedabad within a period of one year and the results reported to this Ministry and to DGMS.</p>	<p>Regular periodic medical cheek-up of all mine workers as per DGMS guidelines is being carried out at project hospital. NIOH Ahmedabad or any other such agency will be engaged for Occupation health survey of mine worker for reporting any case or sign of occupational disease and hearing impairment and the result of same will be submitted to MOEF&CC and DGMS.</p> <p>However, as of on now no case of occupational disease and hearing impairment has been observed. Photographs showing Medical cheek-up of mine workers is enclosed as Exhibit-3.</p>
XIX	<p>A detailed R&R Plan for the life of the project comprising land losers, homestead losers and land and homestead losers, including tribals to be displaced from the project area shall be prepared and implemented in a stipulated time frame. Phase-I of the R&R comprising of 2221 PAPs shall be implemented within one year. The compensation shall be not less than that specified in the National R&R Policy. Provision shall also be made in the R&R Plan to take care of the land less labourers and the tribals. The total expenditure on R&R shall not be less than Rs. 700 crores, which includes land acquisition (Rs. 30 crores) and R&R (350 crores). Alternate livelihood and skill development programmes and schemes</p>	<p>NTPC RAP has been approved vide letter No 116 dated 27.02.2013 from the Govt. of Jharkhand (GoJh) which is in line with the Jharkhand R&R policy. Compensation for landless project affected families will be paid as per the approved R&R policy.</p> <p>The details of the activities being taken up under Medical, Health, Welfare, skill development & infrastructure development under CD/ CSR is being enclosed as Annexure -2.</p> <p>Photographs showing glimpse of CSR Activity undertaken at site is enclosed as Exhibit-4.</p>


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	shall be implemented as part of R&R and CSR.	
XX	The project authorities shall carry out a pre-mining socio-economic survey based on the UNDP Human Development Report and monitor the socio-economic status once every three years and maintain records thereof and report in their Annual Report, the socio-economic impact of R&R and CSR activities.	Pre-mining Socio Economic Survey has been undertaken through IIT Kharagpur and Abhiyan Samiti (local NGO).
XXI	For monitoring land use pattern and, for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1: 5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEF and its Regional office at Bhubaneswar.	Post mining land use maps based on Satellite imagery (Scale of 1:5000) of core zone and buffer zone will be prepared in the gap of every 3 years until end of mine life and report will be submitted to MoEF & CC & its Regional Office Ranchi.
XXII	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	A Final Mine Closure Plan along with details of Corpus Fund will be submitted to MoEF & CC for approval well in advance as per stipulation.
GENERAL CONDITIONS		
I	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	Will be complied. Permission from MOEF & CC will be taken in case of any change in technology and scope of work is proposed.
II	No change in the calendar plan including excavation, quantum of mineral coal and waste shall be made.	Will be complied. There will be no change in calendar plan, excavation, quantum of coal and wastage as specified in EIA/EMP report.
III	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring SPM, RPM, SO ₂ , NO _x and heavy metals such as Hg, Pb, Cr, As, etc. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.	Four Ambient Air Quality Monitoring Stations (AAQMS) have been established in consultation with the Jharkhand State Pollution Control Board (JSPCB) at different location in the core Zone as well as in the buffer Zone for monitoring of AAQ parameters, as stipulated.
IV	<ul style="list-style-type: none"> Fugitive dust emissions (SPM and RSPM and heavy metals such as Hg, Pb, Cr., As, etc) from all the sources shall be controlled, regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, and dump trucks (loading and unloading) points shall be provided and properly maintained. 	<ul style="list-style-type: none"> Fugitive dust emissions (SPM and RSPM and heavy metals such as Hg, Pb, Cr., As, etc) from all the sources are controlled, regularly monitored and data is being recorded properly. Wet drilling is being in practice during drilling operations. Blasting parameters will be optimized to

RF-17/11/2016
P. M. / RASAD

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		control fumes and dust. • Different capacity water tankers is being used at the haul roads and other dust generating areas i.e. truck loading and unloading points towards dust suppression purposes.
V	Data on ambient air quality (SPM, RSPM, SO ₂ , NO _x and heavy metals such as Hg, Pb, Cr, As, etc)) shall be regularly submitted to the Ministry including its Regional Office at Bhubaneswar and to the State Pollution Control Board and the Central Pollution Control Board once in six months.	Environmental monitoring data on ambient air quality is being monitored through M/s SGS India Pvt. limited (NABL Accredited lab), the data of Winter Season will be submitted to Regional MoEF & CC / JSPCB/ CPCB).
VI	<ul style="list-style-type: none"> • Adequate measures shall be taken for control of noise levels below 85 dB (A) in the work environment. • Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs. 	<ul style="list-style-type: none"> • Effective measures are well taken to minimize the noise level below 85 dB (A) in the work zone. • Workers engaged in high noise work zone are provided with suitable PPEs i.e. ear plugs/muffs.
VII	<ul style="list-style-type: none"> • Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. • Oil and grease trap shall be installed before discharge of workshop effluents. 	<ul style="list-style-type: none"> • The industrial waste water will be collected, analyzed and treated conforming to the stipulated standards before final discharge. • Electro-mechanical ETP MBBR is being constructed at the Workshop area. Photographs enclosed as Exhibit-5.
VIII	Vehicular emissions shall be kept under control and regularly monitored.	<p>All vehicles plying for project are being well maintained & in good working condition.</p> <p>Regular monitoring of vehicular emission is being done. Vehicles used for transportation activity shall not be overloaded and will be covered with tarpaulin.</p> <p>Standard operating procedure will be prepared and implemented during the mining operation phase for proper movement of transportation vehicles for minimizing vehicular emission.</p>
IX	Environmental laboratory shall be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.	<p>A separate Lab shall be established at the site with adequate number and type of pollution monitoring and analysis equipment in consultation with the Jharkhand State Pollution Control Board (JSPCB) for analysis of various environmental parameters.</p> <p>However, monitoring and analysis is being done through M/s SGS India Pvt. Ltd (NABL accredited lab) in consultation with the State Pollution Control Board.</p>


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X	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.	Personal protective respiratory devices are made available to personnel working in dusty areas & adequate training on safety & health are also being imparted. A Schedule program is prepared for organizing occupational health surveillance programme for the workers in order to identify the impact & to take appropriate corrective action, if required.
XI	A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.	At the corporate Office, a separate Environmental Management Cell is already functioning under supervision of senior executive who is reporting to Head of the company.
XII	<ul style="list-style-type: none"> The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its Regional Office at Bhubaneshwar. 	<ul style="list-style-type: none"> The requisite funds for environmental mitigation measures have been included in the project cost. Financial provision as stipulated towards environmental mitigative measures will not be diverted for other purposes. Also year-wise expenses detail for environmental protection measure will be submitted to the Regional Office of MoEF & CC at Ranchi after the completion of the financial year.
XIII	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.	Full co-operation will be extended by the project authorities to the officers of MoEF/ RO during their inspection / site visit.
XIV	A copy of the EC will be marked to concerned Panchayat/ local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	No suggestion / representation have been received while processing the proposal. Copy of the EC letter has been sent to the local administrative offices and the EC letter has been also uploaded on the company's website. www.ntpc.co.in
XV	State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.	Copy of the EC letter was sent to office of District Industry centre, District Collector office for display. A copy of the EC has been also marked to JSPCB for display at their Regional office.
XVI	The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the ministry	<ul style="list-style-type: none"> Advertisement regarding EC has been published in two daily local newspapers widely in circulation in Jharkhand. Advertised in English in "Times of India" dated 30/05/2009 In Hindi in "Prabhat Khabar" dated 30/05/2009. The half yearly Compliance status is being updated on Company's website. http://10.0.30.5/home/home10.asp and http://10.1.251.109/pbcmp

12/11/2012
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	of Environment & Forests at http://envfor.nic.in/ . The compliance status shall also be uploaded by the project authorities in their website and regularly updated at least once in six months so as to bring the same in the public domain. The data shall also be displayed at the entrance of the project premises and mines office and in corporate office.	<ul style="list-style-type: none"> The data is also being displayed at entrance of the office.
3	The Ministry or any other competent authority may stipulate any further condition for environmental protection.	If any additional condition related to environment protection stipulated by the statutory authorities, the same will be complied.
4	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986.	Noted and will be complied.
5	The above conditions will be enforced <i>inter-alia</i> , under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules. The proponent shall ensure to provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.	Noted and will be complied under the provision of these acts and rules.

MS-
17/11/2016
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कार्यालय - वन प्रमोडल पदाधिकारी, हजारीबाग पश्चिमी प्रमोडल

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शापांठ 1235 दिनांक 28.4.11

प्रतिलिपि - महा प्रबन्धक, एन.टी.पी.सी. पकरी बरवाडीह
कोल खनन परि योजना, पगभिल रोड, हजारीबाग / वन प्रमोडल पदाधिकारी
पदाधिकारी बुडकागांव / हजारीबाग डी खननार्थ त्रेडिंग। उन्हें
निदेशित किया जाता है कि प्रधान मुख्य वन संरक्षक डी आइसासुआ
हस्ता-तरा पंजी लेखा का समर्पित डी अनुसार हस्ता-तरा डी
कावाई डी जाय।

[Signature]
28.4.11
वन प्रमोडल पदाधिकारी,
हजारीबाग पश्चिमी प्रमोडल

[Signature]
30/4/2011
Sh. R. Nandan
Dy. Secy (M.M./P.B.)
Prampodhara
30/4/11

~~AGM (P.B.) - P.B.~~
[Signature]
29/4

1307
29/4
Copy of GM PBCMP, NTPCHD.

कार्यालय - क्षेत्रीय मुख्य वन संरक्षक, हजारीबाग
वन भवन, हजारीबाग,

प्रमुख वन अधिकारी

फोन नं०.06546-223962, फैक्स नं०. 006546-224758, Email- rcef_hzb@yahoo.co.in

पत्रांक 5388

दिनांक 07.04.2011

सेवा में,

वन संरक्षक,
हजारीबाग अंचल,
हजारीबाग।

विषय :

सर्वश्री एन०टी०पी०सी० के पकरीबन्दीवाडीह कोयला खनन परियोजना हेतु 1026.438 हे० वन भूमि अपयोजन का प्रस्ताव।

प्रसंग:


प्रधान मुख्य वन संरक्षक, -सह- कार्यकारी निदेशक, बंजर भूमि विकास बोर्ड, झारखंड, रांची का पत्रांक 316 दिनांक 05.04.2011

महाशय,

उपरोक्त विषयक प्रसंगाधीन पत्र वंगी छाया प्रतिमां अनुलग्नकों के साथ प्रेषित करते हुं निदेश दिया जाता है कि उपरोक्त विषय के सम्बंध में अधिसूचित वन भूमि को एन०टी०पी०सी० के पक्ष में हस्तान्तरित करने की कार्रवाई करें एवं की गयी कार्रवाई से अधोस्ताक्षरी को अवगत कराएं।

अनु-यथोक्त।

विश्वासभाजन

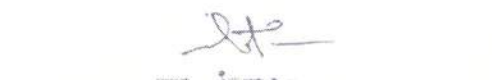

क्षेत्रीय मुख्य वन संरक्षक,
हजारीबाग।

कार्यालय : वन संरक्षक, हजारीबाग अंचल, हजारीबाग।

आपकांक- 13 ई.१॥13॥06 :- 851 दिनांक :-27.04.11

प्रोत्तिलिपि, अनुलग्नक को छाया प्रति लिखित वन प्रमंडल पदाधिकारी, हजारीबाग वरिष्ठी प्रमंडल को सूचनाार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित। उनसे अनुरोध है कि वृत्तिका विषयक परियोजना संबंधी अधिसूचित वन भूमि को एन.टी.पी.सी.के पक्ष में उक्त निर्देशानुसार हस्तान्तरित करने की कार्रवाई को जाव एवं सूचना इस कार्यालय में भेजा जाय।

अनु-यथोक्त।


वन संरक्षक
हजारीबाग अंचल, हजारीबाग।

10-31
03/04/11

कालिका
अ.स.स.स.स.

11-4-11

15.11
28/4/11

कार्यालय :- प्रधान मुख्य वन संरक्षक - सह-कार्यकारी निदेशक,
बंजर भूमि विकास बोर्ड, झारखण्ड, राँची ।

पत्रांक:- / ई0डी0 43/6

दिनांक:- 25/04/2023

सेवा में,

क्षेत्रीय मुख्य वन संरक्षक,
हजारीबाग ।

विषय - सर्वश्री एन0टी0पी0सी0 के चक्रवादी खनन परियोजना हेतु 1026
438 हे0 वन भूमि अपयोजन का प्रस्ताव ।

प्रसंग - वन विभागीय पत्रांक 1240 दिनांक 31.03.2021

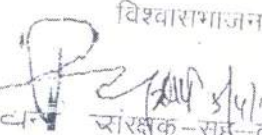
प्रति,

प्रसंगिक पत्र की छायाप्रति संलग्न की जाती है । प्राप्त निदेश के आस्तो-क में इस कार्यालय डापांक 519 दिनांक 07.10.2020 जिसके द्वारा स्टैंडिंग - 2 की शर्तों का अनुपालन प्रतिबंदन आपको प्रेषित है, में दिये गये निदेश के आलोक में अनिश्चित वन भूमि को INAPC के तहत में Hand over करने की कार्यवाही करें ।

गैर गजरुआ जंगल झाड़ी भूमि की विमुक्ति के संबंध में राजस्व एवं भूमि सुधार विभाग द्वारा अलग से आदेश निर्गत किया जायेगा, तदोपरान्त संरक्षक में Hand over जिला प्रशासन द्वारा किया जायेगा ।

अनु0 यथावत ।

विश्वासभाजन


प्रधान मुख्य वन संरक्षक-सह-कार्यकारी निदेशक
बंजर भूमि विकास बोर्ड,
झारखण्ड, राँची ।

KSP
25/4/23

1642
7-4-11

पत्रांक-3/वन भूमि-25/05

वा0प0

झारखण्ड सरकार
वन एवं पर्यावरण विभाग

प्रेषक

मुकेश कुमार वर्मा,
सरकार के उप सचिव ।

सका में

प्रधान मुख्य वन संरक्षक,
झारखण्ड, रांची ।

रांची, दिनांक-

विषय :-

सर्वश्री एन0टी0पी0सी0 को पकरी बरवाडीह कोयला खनन परियोजना हेतु 1026.438 हे0 वन भूमि अध्यायोजन का प्रस्ताव ।

प्रसंग :-

प्रधान मुख्य वन संरक्षक-सह-कार्यकारी निदेशक, बंजर भूमि विकास बोर्ड, झारखण्ड, रांची का पत्रांक 267 दिनांक 22.03.2011

महाशय,

निदेशानुसार उपर्युक्त विषयक वरीय सहायक वन महानिरीक्षक, भारत सरकार, पर्यावरण एवं वन मंत्रालय, नई दिल्ली के पत्रांक 8-56/2009-एफ0सी0 दिनांक 17.09.2010 द्वारा प्राप्त विषयगत परियोजना की शर्तों के साथ प्रदत्त स्टेज-II की स्वीकृति का प्रधान मुख्य वन संरक्षक-सह-कार्यकारी निदेशक, बंजर भूमि विकास बोर्ड, झारखण्ड, रांची के पत्रांक 267 दिनांक 22.03.2011 से प्राप्त अनुपालन प्रतिवेदन की समीक्षोपरान्त प्रस्ताव में सन्निहित 806.653 हे0 अधिसूचित वनभूमि विमुक्त करने का निर्णय लिया गया है । प्रस्ताव में सन्निहित 219.78 हे0 में बंजर जंगल-झाड़ भूमि के हस्तान्तरण हेतु राजस्व एवं भूमि सुधार विभाग, झारखण्ड, रांची के पत्रांक 1076/रा0 दिनांक 16.04.2010 के अनुरूप कार्रवाई करने का निदेश अपने स्तर से प्रयोक्ता अधिकरण को देना चाहेंगे ।

कृपया निर्णय का अनुपालन सुनिश्चित किया जाय ।

विरवासभाजन

ह0/-

(मुकेश कुमार वर्मा)
सरकार के उप सचिव

ज्ञापक-

3/वन भूमि-25/05

वा0प0 रांची, दिनांक-

प्रतिलिपि-सचिव पर्यावरण एवं वन मंत्रालय, भारत सरकार, पर्यावरण भवन, सी0जी0ओ0 कॉम्प्लेक्स, लोदी रोड, नई दिल्ली -110003/वन संरक्षक (केन्द्रीय), पर्यावरण एवं वन मंत्रालय पूर्वी क्षेत्रीय कार्यालय, भुवनेश्वर-751023 को अनुपालन प्रतिवेदन के साथ सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित ।

ह0/-

सरकार के उप सचिव

ज्ञापक-

3/वन भूमि-25/05-1240

वा0प0 रांची, दिनांक-

31/3/2011

प्रतिलिपि-प्रधान मुख्य वन संरक्षक-सह-कार्यकारी निदेशक, बंजर भूमि विकास बोर्ड, झारखण्ड, रांची /महा प्रबंधक एन0टी0पी0 सी0 लि0, पकरी बरवाडीह कोयला माईनिंग प्रोजेक्ट, हजारीबाग को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित ।

सरकार के उप सचिव

DIVERSION OF 1026.438 Ha OF FOREST LAND FOR PAKRI-BARWADIH COAL MINING PROJECT OF NTPC Ltd

ABSTRACT OF LAND SCHEDULE OF DEMARCATED FOREST / UN-DEMARCATED FOREST / EX-RESERVE FOREST / JUNGLEHARI LAND UNDER PAKRI-BARWADIH COAL MINING PROJECT, NTPC Ltd

Sl. No.	Village/ Thana No	Proposed Area of notified forest to be acquired by NTPC						EX-Reserved Forest		Proposed area of G.M. Jungle-Jhari land to be acquired by NTPC Ltd.	Proposed area of (notified forest+EX-Reserve Forest + G.M. Jungle Jhari) Forest land to be acquired by NTPC Ltd	
		Demarcated Forest in acre	in ha	Un-Demarcated Forest in acre	in ha	Total (Demarcated + Un-demarcated) in acre	in ha	in acre	in ha		in acre	in ha
1	Urub/41	374.26	151.46	68.19	27.59	442.45	179.05		28.45	11.51	470.90	190.56
2	Itij/47	10.00	4.05	4.00	1.62	14.00	5.67		3.47	1.40	17.47	7.07
3	Chirudih/48	472.06	191.03	51.07	20.67	523.13	211.70		3.83	1.55	526.96	213.25
4	Nagri/49	126.04	51.00	64.46	26.09	190.50	77.09		85.54	34.62	276.04	111.71
5	Chepakalan/52	54.32	21.98	19.52	7.90	73.84	29.88		1.40	0.57	75.24	30.45
6	Sinduan/50	9.25	3.75	6.58	2.66	12.83	6.41		10.38	4.20	26.21	10.61
7	Sonbarsal/59	34.32	13.89	37.52	15.18	71.84	29.07		34.54	13.98	106.38	43.05
8	Churchu/61	18.05	7.30	22.95	9.29	41.00	16.59		0.00	0.00	41.00	16.59
9	Jugra/54	46.45	18.80	13.95	5.65	60.40	24.44	6.10	0.00	0.00	66.50	26.92
10	Arahar/55	23.14	9.36	50.05	20.25	73.19	29.61	11.08	6.61	2.66	90.88	36.76
11	Langatu/58	0.00	0.00	0.00	0.00	0.00	0.00		218.77	88.53	218.77	88.53
12	Lakura/128	0.00	0.00	125.55	50.81	125.55	50.81		0.00	0.00	125.55	50.81
13	Ker/62	0.00	0.00	0.00	0.00	0.00	0.00		27.00	10.93	27.00	10.93
14	Pakri-Barwadih/56	116.79	47.26	225.90	91.42	342.69	138.68	3.21	123.12	49.82	469.02	189.81
15	Sirka/103	0.00	0.00	0.00	0.00	0.00	0.00	1.63	0.00	0.00	1.63	0.66
16	Odama/104	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Kusumbha/102	1.36	0.55	3.26	1.32	4.62	1.87	19.08	0.00	0.00	23.70	9.59
18	Banadag/88	0.10	0.04	0.76	0.31	0.86	0.35		0.00	0.00	0.86	0.35
Total		1286.14	520.47	693.76	280.75	1979.90	801.22	41.10	541.11	219.78	2564.11	1037.65



DIVERSION OF 1026.438 Ha OF FOREST LAND FOR PAKRIBARWADIH COAL MINING PROJECT OF NTPC Ltd

LAND SCHEDULE OF NOTIFIED FOREST / GM JUNGLE-JHARI LAND UNDER
PAKRI - BARWADIH COAL MINING PROJECT

Sl. No.	Village/ Thana No.	Plot No	Proposed area of notified forest to be acquired by NTPC				Ex-Reserved Forest		Proposed area of Jungle-Jhari land to be acquired by NTPC Ltd		Proposed area of notified forest + Ex-Reserved forest = Jhari land to be acquired by NTPC Ltd	
			Demarcated Forest in acre	Un-Demarcated Forest in ha	in ha	in ha	in acre	in ha	in acre	in ha	in acre	in ha
1	Urub/41	9	17.80	7.20	4.70	1.90		0.00	0.00	22.50	9.11	
		10	62.00	25.09	0.00	0.00	0.00	0.00	62.00	25.09		
		12	85.46	34.58	0.54	0.22			86.00	34.80		
		13	39.06	15.81	2.04	1.07			41.70	16.88		
		85	25.66	10.38	2.84	1.15			28.50	11.53		
		94	10.00	4.05	5.40	2.19			15.40	6.23		
		105	4.88	1.97	10.12	4.10			15.00	6.07		
		216	0.00	0.00	0.00	0.00			0.09	0.04		
		230	45.42	18.38	14.58	5.90			60.00	24.28		
		238	0.00	0.00	0.00	0.00			0.17	0.07		
		284	0.00	0.00	0.00	0.00			0.13	0.05		
		342	7.84	3.88	1.16	0.59			9.10	3.68		
		347	29.24	11.83	12.51	5.06			41.75	16.90		
517	0.00	0.00	0.00	0.00			15.00	6.07				
540	0.00	0.00	0.00	0.00			4.01	1.28				
619	0.00	0.00	0.00	0.00			3.16	1.28				
632	47.10	19.06	13.40	5.42			60.50	24.48				
Total		374.26	151.46	68.19	27.59		28.45	11.51	470.90	190.56		
2	Itg/47	4	10.00	4.05	4.00	1.62		0.00	0.00	14.00	5.67	
Total		110	0.00	0.00	0.00	0.00		3.47	1.40	3.47	1.40	
Total			10.00	4.05	4.00	1.62		3.47	1.40	17.47	7.07	

A. V. S.



Sl. No.	Village/ Thana No.	Plot No	Proposed area of notified forest to be acquired by NTPC				Ex-Reserved Forest		Proposed area of Jungle-Jhari land to be acquired by NTPC Ltd		Proposed area of notified forest + Ex-Reserved forest + Jungle-Jhari land to be acquired by NTPC Ltd		
			Demarcated Forest in acre	in ha	Un-Demarcated Forest in acre	in ha	in acre	in ha	in acre	in ha	in acre	in ha	
3	Chirudih /48	3	129.06	52.23	1.97	0.80			0.00	0.00	131.03	53.02	
		15	60.98	24.68	28.52	11.54			0.00	0.00	89.50	36.22	
		20	60.00	24.28	0.00	0.00			0.00	0.00	60.00	24.28	
		22	68.50	27.72	0.00	0.00			0.00	0.00	68.50	27.72	
		23	51.50	20.84	0.50	0.20			0.00	0.00	52.00	21.04	
		24	29.66	12.00	8.84	3.58			0.00	0.00	38.50	15.58	
		35	4.66	1.89	9.34	3.78			0.00	0.00	14.00	5.67	
		79	0.00	0.00	0.00	0.00			3.72	1.51	3.72	1.51	
		82	0.00	0.00	0.00	0.00			0.11	0.04	0.11	0.04	
		86	42.20	17.08	1.90	0.77			0.00	0.00	44.10	17.85	
		87	25.50	10.32	0.00	0.00			0.00	0.00	25.50	10.32	
			Total	472.06	191.03	51.07	20.67			3.83	1.55	526.96	213.25
		4	Nagri/49	533	0.00	0.00	0.00	0.00			0.44	0.18	0.44
664	0.00			0.00	0.00	0.00			26.80	10.85	26.80	10.85	
666	0.00			0.00	0.00	0.00			0.07	0.03	0.07	0.03	
676	0.00			0.00	0.00	0.00			15.50	6.27	15.50	6.27	
733	0.00			0.00	0.00	0.00			18.00	7.28	18.00	7.28	
734	2.28			0.92	23.72	9.60			0.00	0.00	26.00	10.52	
735	37.13			15.03	0.37	0.15			0.00	0.00	37.50	15.18	
736	26.65			10.78	13.35	5.40			0.00	0.00	40.00	16.19	
737	0.00			0.00	0.00	0.00			19.50	7.89	19.50	7.89	
955	0.00			0.00	0.00	0.00			0.08	0.03	0.08	0.03	
985	0.00			0.00	0.00	0.00			1.32	0.53	1.32	0.53	
1091	0.00			0.00	0.00	0.00			1.67	0.68	1.67	0.68	
1125	0.00			0.00	0.00	0.00			2.16	0.87	2.16	0.87	
1127	3.33	1.35	26.67	10.79			0.00	0.00	30.00	12.14			
1143	56.65	22.93	0.35	0.14			0.00	0.00	57.00	23.07			
	Total	126.04	51.00	64.46	26.09			85.54	34.62	276.04	111.71		



Sl. No.	Village/ Thana No.	Plot No	Proposed area of notified forest to be acquired by NTPC				Ex-Reserved Forest		Proposed area of Jungle-Jhari land to be acquired by NTPC Ltd		Proposed area of notified forest + Ex-Reserved forest + Jungle-Jhari land to be acquired by NTPC Ltd	
			Demarcated Forest in acre	in ha	Un-Demarcated Forest in acre	in ha	in acre	in ha	in acre	in ha	in acre	in ha
5	Chepaka - lan/52	213	10.60	4.29	14.92	6.04		0.00	0.00	25.52	10.33	
		411	0.00	0.00	0.00	0.00		1.40	0.57	1.40	0.57	
		535	20.00	8.09	2.32	0.94		0.00	0.00	22.32	9.03	
		614	23.72	9.60	2.28	0.92		0.00	0.00	26.00	10.52	
	Total	54.32	21.98	19.52	7.90		1.40	0.57	75.24	30.45		
6	Sinduari/ 60	2	0.00	0.00	0.00	0.00		1.64	0.66	1.64	0.66	
		48	7.52	3.04	3.23	1.31		0.00	0.00	10.75	4.35	
		65	0.00	0.00	0.00	0.00		2.05	0.83	2.05	0.83	
		77	0.00	0.00	0.00	0.00		0.06	0.02	0.06	0.02	
		82	0.00	0.00	0.00	0.00		6.63	2.68	6.63	2.68	
		424	0.85	0.34	3.35	1.36		0.00	0.00	4.20	1.70	
		861	0.88	0.36	0.00	0.00		0.00	0.00	0.88	0.36	
	Total	9.25	3.75	6.58	2.66		10.38	4.20	26.21	10.61		
7	Sonbarsa/ 59	223	0.00	0.00	0.00	0.00		1.14	0.46	1.14	0.46	
		239	0.00	0.00	0.00	0.00		1.40	0.57	1.40	0.57	
		739	0.32	0.13	4.40	1.78		0.00	0.00	4.72	1.91	
		1106	0.00	0.00	0.00	0.00		32.00	12.95	32.00	12.95	
		1013	13.00	5.26	4.25	1.72		0.00	0.00	17.25	6.98	
		1015	14.80	5.99	4.77	1.93		0.00	0.00	19.57	7.92	
		1017	6.20	2.51	24.10	9.75		0.00	0.00	30.30	12.26	
	Total	34.32	13.89	37.52	15.18		34.54	13.98	106.38	43.05		
8	Churchu/ 61	5	1.50	0.61	13.00	5.26		0.00	0.00	14.50	5.87	
		13	16.55	6.70	9.95	4.03		0.00	0.00	26.50	10.72	
		Total	18.05	7.30	22.95	9.29		0.00	0.00	41.00	16.59	
9	Jugra/54	38	0.00	0.00	0.00	0.00	3.63	1.47	0.00	3.63	1.47	
		39	0.00	0.00	0.00	0.00	2.47	1.00	0.00	2.47	1.00	
		173	33.95	13.74	7.95	3.22		0.00	0.00	41.90	16.96	
		220	12.50	5.06	6.00	2.43		0.00	0.00	18.50	7.49	
	Total	46.45	18.80	13.95	5.65	6.10	2.47	0.00	66.50	26.92		



Sl. No.	Village/ Thana No.	Plot No	Proposed area of notified forest to be acquired by NTPC				Ex-Reserved Forest		Proposed area of Jungle-Chhari land to be acquired by NTPC Ltd		Proposed area of notified forest + Ex-Reserved forest+ Jungle-Chhari land to be acquired by NTPC Ltd	
			Demarcated Forest in acre	in ha	Un-Demarcated Forest in acre	in ha	in acre	in ha	in acre	in ha	in acre	in ha
10	Arahara/ 55	2	0.00	0.00	0.00	0.00	2.05	0.83	0.00	0.00	2.05	0.83
		3	0.00	0.00	0.00	0.00	1.11	0.45	0.00	0.00	1.11	0.45
		11	0.00	0.00	0.00	0.00	0.88	0.36	0.00	0.00	0.88	0.36
		20	0.00	0.00	0.00	0.00	0.22	0.09	0.00	0.00	0.22	0.09
		21	0.00	0.00	0.00	0.00	3.21	1.30	0.00	0.00	3.21	1.30
		22	0.00	0.00	0.00	0.00	0.25	0.10	0.00	0.00	0.25	0.10
		23	0.00	0.00	0.00	0.00	2.15	0.87	0.00	0.00	2.15	0.87
		24	0.00	0.00	0.00	0.00	0.89	0.36	0.00	0.00	0.89	0.36
		30	0.00	0.00	0.00	0.00	0.32	0.13	0.00	0.00	0.32	0.13
		41	0.00	0.00	0.00	0.00	8.60	3.48	0.00	0.00	8.60	3.48
		42	0.00	0.00	0.00	0.00	7.30	2.95	0.00	0.00	7.30	2.95
		68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		243	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.05	0.12	0.05
		252	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.18	0.45	0.18
268	0.00	0.00	0.00	0.00	3.89	1.57	0.00	0.00	3.89	1.57		
1993	11.00	4.45	6.50	2.63			0.00	0.00	17.50	7.08		
2014	8.12	3.29	10.11	4.09			0.00	0.00	18.23	7.38		
2020	3.32	1.34	14.18	5.74			0.00	0.00	17.50	7.08		
2021	0.42	0.17	2.00	0.81			0.00	0.00	2.42	0.98		
2030	0.00	0.00	0.00	0.00			0.85	0.34	0.85	0.34		
2048	0.00	0.00	0.28	0.11			0.00	0.00	0.28	0.11		
2058	0.06	0.02	0.66	0.27			0.00	0.00	0.72	0.29		
2093	0.22	0.09	0.42	0.17			0.00	0.00	0.64	0.26		
2166	0.00	0.00	0.00	0.00			0.70	0.28	0.70	0.28		
2179	0.00	0.00	0.00	0.00			0.30	0.12	0.30	0.12		
Total		23.14	9.36	50.05	20.25	11.08	4.49	6.61	2.66	90.88	36.76	



A. K. Singh

Sl. NO.	Village/ Thana No.	Plot No	Proposed area of notified forest to be acquired by NTPC				Ex-Reserved Forest		Proposed area of Jungle-Thari land to be acquired by NTPC Ltd		Proposed area of notified forest + Ex-Reserved forest+ Jungle-Thari land to be acquired by NTPC Ltd	
			Demarcated Forest in acre	in ha	Un-Demarcated Forest in acre	in ha	in acre	in ha	in acre	in ha	in acre	in ha
11	Langatu/ 58	64	0.00	0.00	0.00	0.00						
		67	0.00	0.00	0.00	0.00			1.02	0.41	1.02	0.41
		81	0.00	0.00	0.00	0.00			2.37	0.96	2.37	0.96
		538	0.00	0.00	0.00	0.00			3.72	1.51	3.72	1.51
		646	0.00	0.00	0.00	0.00			52.50	21.25	52.50	21.25
		955	0.00	0.00	0.00	0.00			49.00	19.83	49.00	19.83
		1018	0.00	0.00	0.00	0.00			23.38	9.46	23.38	9.46
		1912	0.00	0.00	0.00	0.00			19.77	8.00	19.77	8.00
		1915	0.00	0.00	0.00	0.00			0.17	0.07	0.17	0.07
		1920	0.00	0.00	0.00	0.00			0.17	0.07	0.17	0.07
		1922	0.00	0.00	0.00	0.00			1.20	0.49	1.20	0.49
2173	0.00	0.00	0.00	0.00			1.19	0.48	1.20	0.49		
3825	0.00	0.00	0.00	0.00			17.50	7.08	17.50	7.08		
3839	0.00	0.00	0.00	0.00			0.28	0.11	0.28	0.11		
Total			0.00	0.00	0.00	0.00	218.77	88.53	218.77	88.53		
12	Lakura/ 128	8	0.00	0.00	4.15	1.68	0.00	0.00	4.15	1.68		
		16	0.00	0.00	121.40	49.13	0.00	0.00	121.40	49.13		
Total			0.00	0.00	125.55	50.81	0.00	0.00	125.55	50.81		
13	Keri/62	459	0.00	0.00	0.00	0.00	27.00	10.93	27.00	10.93		
Total			0.00	0.00	0.00	0.00	27.00	10.93	27.00	10.93		



Sl. No.	Village/ Thana No.	Plot No	Proposed area of notified forest to be acquired by NTPC				Ex-Reserved Forest		Proposed area of Jungle-Chhari land to be acquired by NTPC Ltd		Proposed area of notified forest + Ex-Reserved forest + Jungle-Chhari land to be acquired by NTPC Ltd	
			Demarcated Forest in acre	in ha	Un-Demarcated Forest in acre	in ha	in acre	in ha	in acre	in ha	in acre	in ha
		3	0.20	0.08	0.00	0.00	0.00	0.00	0.00	0.20	0.08	
		9	6.08	2.46	0.00	0.00	0.00	0.00	0.00	6.08	2.46	
		34	1.53	0.62	0.77	0.31	0.00	0.00	0.00	2.30	0.93	
		35	2.35	0.95	0.00	0.00	0.00	0.00	0.00	2.35	0.95	
		116	33.04	13.37	14.70	5.95	0.00	0.00	0.00	47.74	19.32	
		243	13.42	5.43	39.58	16.02	0.00	0.00	0.00	53.00	21.45	
		313	0.60	0.24	21.15	8.56	0.00	0.00	0.00	21.75	8.80	
		347	0.00	0.00	0.00	0.00	6.88	2.78	0.00	6.88	2.78	
		349	0.00	0.00	0.00	0.00	1.10	0.45	1.10	1.10	0.45	
		379	0.00	0.00	0.00	0.00	1.17	0.47	1.17	1.17	0.47	
		380	0.00	0.00	0.00	0.00	0.50	0.20	0.50	0.50	0.20	
		384	0.00	0.00	0.00	0.00	0.47	0.19	0.47	0.47	0.19	
		388	5.80	2.35	29.95	12.12	0.00	0.00	0.00	35.75	14.47	
		391	8.42	3.41	27.83	11.26	0.00	0.00	0.00	36.25	14.67	
		392	3.77	1.53	31.48	12.74	0.00	0.00	0.00	35.25	14.27	
		394	25.00	10.12	10.76	4.35	0.00	0.00	0.00	35.76	14.47	
		399	0.00	0.00	30.08	12.17	0.00	0.00	0.00	30.08	12.17	
		499	5.96	2.41	1.10	0.45	0.00	0.00	0.00	7.06	2.86	
		885	10.20	4.13	18.50	7.49	0.00	0.00	0.00	28.70	11.62	
		913	0.00	0.00	0.00	0.00	26.00	10.52	26.00	26.00	10.52	
		1440	0.00	0.00	0.00	0.00	2.22	0.90	2.22	2.22	0.90	
		1447	0.00	0.00	0.00	0.00	3.33	1.35	3.33	3.33	1.35	
		1744	0.00	0.00	0.00	0.00	3.36	1.36	3.36	3.36	1.36	
		1900	0.00	0.00	0.00	0.00	37.00	14.97	37.00	37.00	14.97	
		1951	0.00	0.00	0.00	0.00	33.25	13.46	33.25	33.25	13.46	
		2464	0.00	0.00	0.00	0.00	7.84	3.17	7.84	7.84	3.17	
		2500	0.00	0.00	0.00	0.00	3.21	1.30	3.21	3.21	1.30	
		2512	0.42	0.17	0.00	0.00	0.00	0.00	0.42	0.42	0.17	
		Total	116.79	47.26	225.90	91.42	3.21	1.30	123.12	49.82	469.02	189.81



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Sl. No.	Village/ Thana No.	Plot No	Proposed area of notified forest to be acquired by NTPC				Ex-Reserved Forest		Proposed area of Jungle-Jhari land to be acquired by NTPC Ltd		Proposed area of notified forest + Ex-Reserved forest+ Jungle-Jhari land to be acquired by NTPC Ltd		
			Demarcated Forest in acre	in ha	Un-Demarcated Forest in acre	in ha	in acre	in ha	in acre	in ha	in acre	in ha	
15	Sirka/103	1	0	0.00	0.00	0.00	0.32	0.13	0.00	0.00	0.32	0.13	
		338	0	0.00	0.00	0.00	1.31	0.53	0.00	0.00	1.31	0.53	
	Total		0	0.00	0.00	0.00	1.63	0.66	0.00	0.00	1.63	0.66	
16	Odama/104	1	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		Total	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	Kusumbha/ 102	909	0.47	0.19	1.31	0.53			0.00	0.00	0.00	0.00	
		1665	0.89	0.36	1.95	0.79			0.00	0.00	1.78	0.72	
		2855	0.00	0.00	0.00	0.00	1.41	0.57	0.00	0.00	2.84	1.15	
		3431	0	0.00	0.00	0.00	6.87	2.78	0.00	0.00	1.41	0.57	
		3432	0	0.00	0.00	0.00	4.67	1.89	0.00	0.00	6.87	2.78	
		3433	0	0.00	0.00	0.00	3.88	1.57	0.00	0.00	4.67	1.89	
	Total	3434	0	0.00	0.00	0.00	1.11	0.45	0.00	0.00	3.88	1.57	
		3435	0	0.00	0.00	0.00	1.14	0.46	0.00	0.00	1.11	0.45	
	Total		1.30	0.55	3.26	1.32	19.08	7.72	0.00	0.00	1.14	0.46	
18	Banadag/88	4301	0.10	0.04	0.76	0.31	0.00	0.00	0.00	0.00	0.86	0.35	
		Total	0.10	0.04	0.76	0.31	0.00	0.00	0.00	0.00	0.86	0.35	
GRAND TOTAL				1286.14	520.47	693.76	280.75	41.10	16.64	543.11	219.78	2564.11	1037.65

A. U. S.



Exhibit -1
(Ref Specific condition SI No. VIII)

Photographs showing construction of Retaining wall at the toe of the dumps

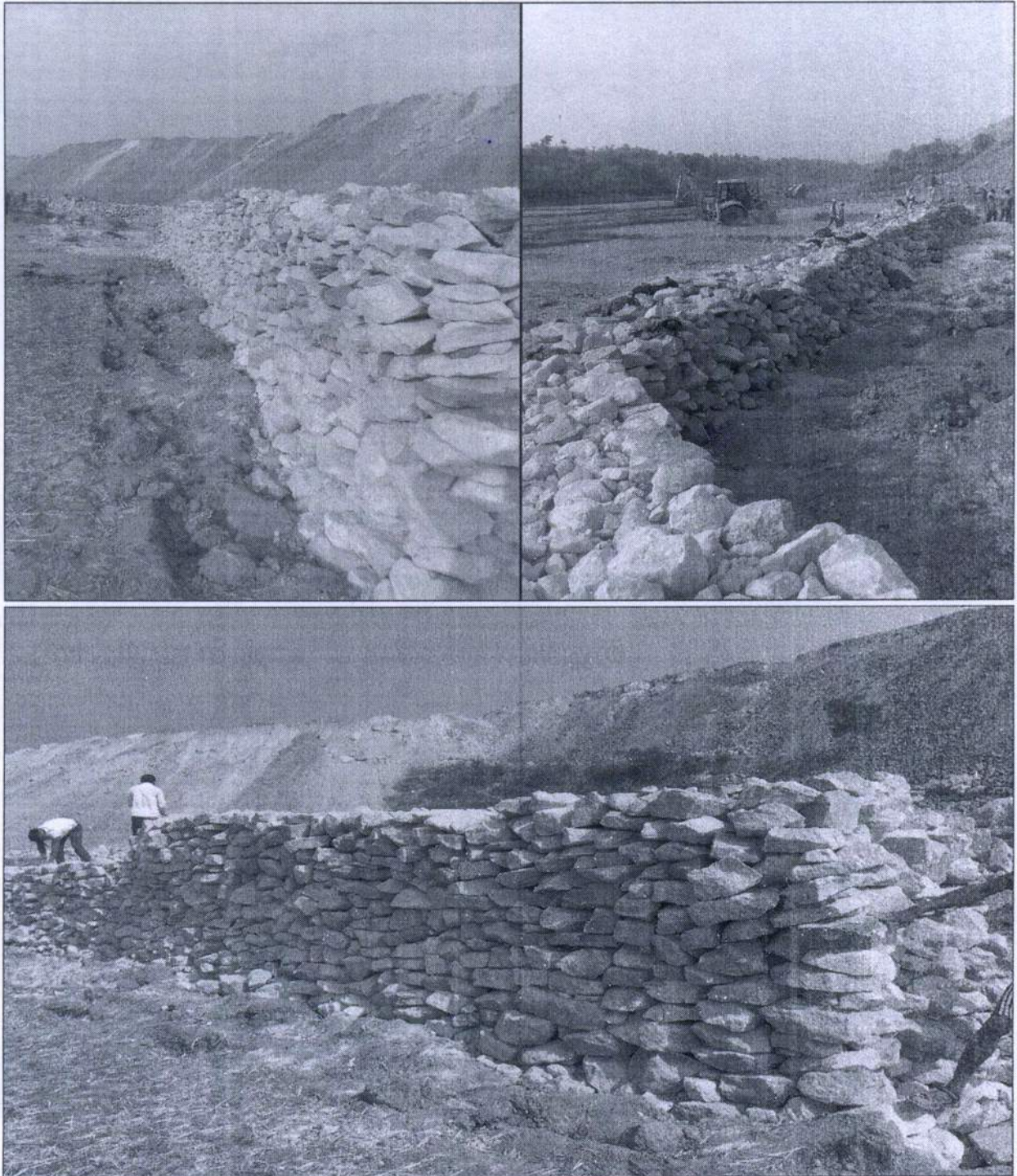


Exhibit -2
(Ref Specific condition SI No. XIII)

Photographs showing Piezometers installation



Exhibit -3
(Ref Specific condition SI No. XVII)

Photographs showing Medical check-up of mine workers



Exhibit - 4
(Ref Specific condition SI No. XIX)
Photographs Showing CSR Activity



Exhibit - 5
(Ref General condition SI No. VII)
Photographs Showing ETP is under construction Phase.



Annexure-2

NTPC Ltd.										
Month : December-2016										
Annexure	Cost code	PARTICULARS	LOCATION	DATE OF STARTING	LIKELY DATE OF COMPLETION	PERCENTAGE OF WORK COMPLETED: (On going/ Completed)	AMOUNT SPENT (IN RUPEES) FOR THIS MONTH	SITE : Pakri Barwadih		Remarks
								ACCUMULATIVE COST (IN RUPEES)	ASSESSED IMPACT ON POPULATION NO OF HOUSEHOLD BENEFITTED	
10		LIVELIHOOD								
		Training								
	10.1(A)	Garments Training 2nd Batch	Dumka	18-Oct-16	18-Jan-16	ongoing			32 Ladies	
	B	For Regular expenses of 32 Trainees at LIMS	Dumka	22-Nov-16			10000			Not including course fees of 2nd batch
	10.6	First aid				Completed	Nil	33180	30 person	

Pakri Barwadih Coal Mining Project

11	DRINKING WATER														
	11.1	Drinking water facility for villagers (Total 2 water tankers)	Chirudih Mines & Dalhandi Darikalan	Oct-16	Nov-16	Completed	110000	2732645	7 Villages						
	11.2	Submersible & Pumset fitting at workshop in Mining area	Chirudih mines	Oct-16		Completed		38660							
12	HEALTH CARE														
		Dispensary Darikalan							20 villages						
	12.1	Medical container and all machines setup	Darikalan			Completed	Nil	4007052							
	12.2	Dispensary(Darikalan & Nagri) expenses of medicine	Darikalan			Ongoing	142500	3020363	1920 patients						



Power of India

Pakri Barwadih Coal Mining Project

	13.1	Pcc Road work for dispensary gate	Darikalan	Oct-16	Nov-16	Completed	200000		
	13.2	Civil work expenses of Nagri dispensary	Nagri	Oct-16	Nov-16	ongoing	300000	3612000	All civil work of Darikalan and Nagri dispensary till date
14	14.1	Dispensary Darikalan Electrification work					Nil	65655	
15	15.1	Health awareness campaign				Completed	Nil	9365	
16	ELECTRIFICATION								
17	EDUCATION								
	17.1	Teaching staff for schools.Total 32 Teachers in 6 schools and Coaching centres	Manjhali Dari,Sindwari, Sonbarsa, Nagri, Kerigada, Upatola Darikalan	01-Sep-16	30-Sep-16	Completed	Nil	248000	6 Villages students Accu. Expenses are till date

Pakri Barwadih Coal Mining Project

17.2	Umbrella, Sweets distribution & Drawing competition in schools				Completed	Nil	267930	12 schools	Till date
17.3	Borewell repair of school	Chirudih	Oct-16	Oct-16	Completed	Nil	19000	1 school	
18	INFRASTRUCTURE								
18.1	Kandaber Temple Construction	Kandaber	Aug-16		Completed	Nil	297391	40-50 villages	
18.2	Constructions of well	Nagri	May-16	Oct-16	Completed	Nil	145000	1 village	
18.4	Pipe fitting and plumbing work	Thana Barkagaon	Oct-16	Oct-16	Completed	Nil	23745	1 police camp	
18.5	Drain & Culvert	Sontarsa	Jul-16	Jul-16	Completed	Nil	24665	1 vilige	
18.6	Drain repair	Sindwari	Jul-16		Completed	Nil	11085	1 vilige	
18.7	Pond Deepening	Sindwari	Jul-16		Completed	Nil	7000	1 vilige	
18.8	Urub Dam Repair	Urub	Jul-16		Completed	Nil	206000	7 villages	
18.9	Civil work at flag hoisting area	Site office Langatu	Jul-16	Aug-16	Completed	Nil	50621		

Pakri Barwadih Coal Mining Project

20	19.1	Adarsh chowk drain repairing	Sindwari	Sep-16		Completed	Nil	8400	1 village	
	19.2	Civil work at Chirudih school	Chirudih	Sep-16		Completed	Nil	13350	1 school	
	19.3	Sun temple painting work	Barkagaon	Sep-16	Oct-16	Completed	88600	88600		
	Nursery		Sonbarsa							
21	20.1	infrastructure works	Sonbarsa			Completed	Nil	503511		April to Till date
	20.2	Cutting charge for dead tree in nursery	Sonbasa	20-Nov-16		Completed	1200	1200		
	20.3	Wages of Nursery and office garden Langatu for month of November	Sonbarsa & Langatu	01-Nov-16	30-Nov-16	ongoing	58014	146274	9 labours on daily wages	
	20.4	Seeds, Medicines, Spray machine and Water sprinkler				Completed	Nil	6315		
SPORTS										

Pakri Barwadih Coal Mining Project

21.1	Donation for Jharkhand state level Badminton championship	Ranchi	18-Nov-16	Completed	200000	200000	State Level
21.2	Football Tournament in Independence day-16			Nil	90829	18 villages	
22	MISCELLANEOUS / SOCIAL WELFARE/CUTURAL ACTIVITIES						
	Financial Help						
	Compensation						
22.1	Distribution Compensation for Death of four families(block office barkagaon)	Sonbarsa, Chepakhur d, Sindwari	26-Nov-16	Completed	3200000	3200000	4 Family (8 Lakhs each families)

Pakri Barwadih Coal Mining Project

	22.2	Lunch for villagers during compensation programme Block office	Barkagaon	26-Nov-16		Completed	6990				
	Puja										
	23.1	Donation for Durga Puja	Urub	25-Sep-16		Completed	Nil	95301	1 village		
	23.2	Donation for Kaali puja	Barkagaon	30-Oct-16		Completed	Nil	10000	1 village		
	23.3	Ganesh Puja				Completed	Nil	10000	1 village		
	23.4	Vishwakarma puja				Completed	Nil	22900	1 village		
	23.5	Chhat	Chepakalan and Keri Chamgada			Completed	Nil	31000	2 villaes		
	23.6	Eid				Completed	Nil	15000	1 village		
	23.7	Yagya				Completed	Nil	20000	1 village		
25		House repair				Completed	Nil	34800	4 families		
26		Poor Families				Completed		10000	1 family		
27		Cremation programme	Itij	25-Oct-16		Completed	Nil	50000	3 family		
28		Education	Different villages	Mar-16	Oct-16	Completed	Nil	112700	30-40 Students approx		

Pakri Barwadih Coal Mining Project

29		Treatment	Different villages	Mar-16	Oct-16	Completed	Nil	708870	15-20 family approx
									7885356
	30.6	T-shirt for villagers	Langatu site office	01-May-16	01-Jun-16	Completed	Nil	440000	2000 persons
	30.7	Raincoat for villagers	Langatu site office	10-Jun-16	15-Jul-16	Completed	Nil	615000	1000 persons
	30.8	Umbrella for villagers	Langatu site office	01-Mar-16	01-Apr-16	Completed	Nil	187500	1500 persons
	30.9	Plantation				Completed	Nil	150290	
31	31.1	Well & Borewell repair				Completed	Nil	11500	4-5 villages
	31.2	Village Survey				Completed	Nil	20000	20 girls
	31.3	Signboard for our activity				Completed	Nil	31500	
		Total					4317304	22319130	
							monthly	accumulative	

Community Development Activities: Synopsis

SI	HEAD	Expenditure Till Date (Amount in Lacs)	Activity	No. of Beneficiaries
1.	EDUCATION	244	Development of 14 no. govt schools in PB project area as Model schools in line with directives of CSR Council, GoJh – benefitting more than 7500 students.	
			Demonstration by Mobile science lab	6200 no.
			Organising Science fair in schools	2000 no.
			Provision of Bi- cycle to girls students	40 nos.
			Provision of study materials in govt. school	6400 sets
			Provision of bench cum desk to school	3200 nos
			Scholarship to Meritorious students of jharkhand Academic Council 2010	61 nos
			Provision of school bags to school students	8500 nos.
			Distribution of school uniforms to school students	8500 nos.
2.	HEALTH	193	Medical Camps for project affected person of PBCMP villages	324 camps Patients Examined ~24500 Nos
			Medical Camps through hired lady doctor in Girls schools	600 no.
			01 no. Mobile Clinic and 02 no. ambulances operational	
			Veterinary Health Check up Camp in PAV, Chirudih	More than 200 animal examined
			Organised Eye Check up and Cataract Operation Camps for Project affected person of PBCMP villages	More than 1100 patients examined
			Eye Check up Camps for School Students	Organised in Govt. School
			Spectacle provided to vision impaired	25
			Distribution of bleaching powder.	17 villages
			Medical Equipment provided to public Health Centre, Barkagaon	2 PHCs
Equipment provided to Phycially Handicapped	70 nos			

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3.	INFRASTRUCTURE DEVELOPMENT FACILITIES	876	Construction of NTPC –Barkagaon Private ITI at Dhenga	600 per year
			Development of Kusumbha as Model village - DPR prepared and various infra devt. Works under award.	
			Installation of Hand Pump	285 nos
			Installation of Solar Street Light	500 nos
			Installation of Solar High Mast	10 nos
			Construction of Boundary Walls in village govt.School	22 nos
			Construction of new Community Hall	8 nos
			Construction and repair of roads & nallahs in Project affected villages	33 Km
			Repair of existing wells in PAV's for improving hygienic conditions	75nos
			Deepening and renovation of Ponds	08 No.s Ponds
4.	SKILL DEVELOPMENT MEASURES	292	Full Time ITI Training for Wards of PAPs (2 years course in ITI Hazaribagh, Ranchi , Dhanbad & Dumka)	240
			Placement linked course in Plastic Processing at CIPET, Hazipur	20
			MoU signed with JHARCRAFT for operation & management of ITI for 10 years Regular classes u/p in Welder, Electrician & Fitter trade.	126
			MES Training in computer course, electrician and welder trade for wards of PAPs .	110
			Tailoring Training for Women PAPs in all villages and distribution of sewing machines.	365
			Computer Training for Girls PAPs	120
			Motor driving training for wards of PAPs & issuance of driving license to successful candidates.	120
			Jharcraft training (Zardozi trade)for women PAPs in Nagadi village.	30
			Jharcraft training (jute Macrane) for women PAPs in Dhenga village and Chirudih	76
			Apparel training and Embroidery training income generation courses at MAITI, Barkagaon	80
5.	MISCELLANEOUS/ WELFARE	228	Distribution of blankets to old age persons	7000
			Distribution of mosquito nets to school student	1250

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		Distribution of solar Lantern to School students & PAPs	1180
		Supply of drinking water through water tankers for project villages every summer seasons	7 Villages
		Drinking water through Piyau Ghar during summer seasons	4 Centres
		Organising and Cricket Tournament in Project Affected villages	17 villages covered
		Distribution of Sports item to village youths	12 villages covered
		Distribution of Furniture and other equipments to Panchayat bhavan, block offices etc.	
		Activities at Hazaribagh- Renovation of Chatth Talaab, K.B Sahai Memorial Park, Development activities at Sadar Hospital(Hzb) Installation of 4 no. High Mast Lights. Sponsorship to Konar Mahotsava, Cricket and Football leagues and other Programmes at District level Deposition of Rs 7 lacs in DC- CSR Fund. Installation of solar lights and other support at Vinobha bhava University, Hazaribagh.	
	TOTAL	1833	