TO RO, MOEFCC Ranchi

BOKARO POWER SUPPLY COMPANY (P) LIMITED COMPLIANCE REPORT

Ref: MOEF, New Delhi Environment Clearance F.No. J 13012/74/2010-IA II (T) dated 03rd. April, 2012.

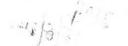
STIP	ULATED CONDITION	COMPLIANCE STATUS	
(i) Scheme for implementation for harnessing solar power within the premises of the plant particularly at available roof tops shall be formulated and status of implementation shall be submitted to the Regional Office of the Ministry from time to time.		buildings was commissioned (In Welfare Building -1 &Welfar	
(ii)	A stack of 180 m height with flue gas velocity not less than 22 m/s shall be installed and provided with continuous online monitoring equipments for SO _x , NO _x and PM _{2.5} & PM ₁₀ . Mercury emissions from stack may also be monitored on periodic basis.	A stack of height 180m is constructed and is under operation with online monitoring system for SPM, SOX, NOX. Mercury is also periodically monitored. COMPLIED.	
(iii)	Coal transportation to plant site shall be undertaken by rail and no road transportation shall be permitted.		
(iv)	A detailed study on chemical composition of coal used particularly heavy metal and radio activity contents shall be carried out through a reputed institute and report shall be submitted to Regional Office of the ministry. Only after ascertaining its radioactive level shall fly ash be supplied to end user.	Analysis has been carried out by M/s. R.V. Briggs & Co. pvt. ltd COMPLIED	
(v)	The project proponent shall carry out a long term R&D on Boiler efficiency vis-à-vis large variation on ash content of coal and submit its findings to the Ministry at a large.	Study is in Progress.	
(vi)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission dose not exceeds 50mgNm³.	High efficiency ESP is operational with the steam generating unit and the emission of particulate matter is maintained within the prescribed norm of 50mg/Nm ³ . COMPLIED	
(vii)	Adequate dust extraction system such as cyclones/ bag filters and water spray system such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Water spray system in coal yard and ash pond area is in service. Besides it, dry fog dust suppression system is also installed in coal handling plant. COMPLIED	

10/8/3

18/6/24

(viii)	Utilization of 100% Fly Ash generated shall be made from 4 th year of operation as per the fly Ash Utilization, Notification, 1999 and its subsequent amendments, Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	 MOU has been signed with NHAI for utilization of Fly Ash in road construction for which transportation cost will be borne by M/S BPSCL. M/S Dalmia cement is using Dry fly ash from silo for cement manufacturing. This year 19010 cum of ash has been utilized in 2023-24. Ash is also being utilized to fill up low lying areas. A contract have been awarded for filling up of low lying area and construction of internal road with in BSL plant premises. One semi automatic and one Manual ash brick manufacturing machine has been commissioned for in-house brick manufacturing. Fly ash is being supplied to local brick manufacturing units for brick production. A total of 1140Cum of ash has been lifted by local brick manufacturers. O2 nos. of Fly ash bagging machine has been installed and a 330 mtr. Long platform has been constructed to transport fly ash through railway wagons. M/S orient Exports Pvt. Ltd. have been engaged to transport fly ash through railway wagons and this year 43162.80 MT of Ash has been sent by rail mode. Also already dumped Fly ash is being stabilized by biological process to reclaim the land.
(ix)	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 from. Mercury and other heavy metals (As, Hg, Cr, Pb, etc) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.	Silo is installed and is functioning. Two nos. Fly ash bagging machine has been installed for transportation through railway and roadway. Fly ash brick machine is also installed inside plant for use of dry fly ash. Unutilized fly ash is being transported through pipelines as slurry into the ash ponds and analysis being carried out by third party. Monitoring by M/S R V Briggs & Co. is being carried out on regular basis. Report attached COMPLIED
(x)	Land and water requirement shall be restricted as per latest CEA norms issued.	Proper study had been carried out during the planning and commissioning by Bokaro Steel Plant and at the time of extension through an EIA and EMP report by Mecon Ltd.

		EIA and EMP report already submitted. COMPLIED
(xi)	Ash pond water shall be re-circulated and utilized.	Ash pond water comes out into the BSL cooling pond from where it is recirculated for plant use. COMPLIED
(xii)	Ash pond shall be lined with HDP/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.	Regular maintenance of ash dyke is being carried out with boulders and slag for its protection. Also, we are in process of engaging a reputed consultant for detailed study and modernization of the Ash Pond, COMPLIED
(xiii)	Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5% 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 the Ministry for suitable amendments to environmental clearance condition wherever necessary.	Coal quality with respect to ash and volatility is regularly checked in plant lab and is within limit. Quarterly third Party test is also carried out through M/s. R.V. Briggs & Co. pvt. ltd . Coal analysis report attached. COMPLIED
(xiv)	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 any deterioration is observed specific mitigation measures shall be undertaken and reports / date of water quality monitored regularly and maintained shall be submitted to the Regional Office of the Ministry.	The specific tests are being carried out by NABL approved vendor M/s. R.V. Briggs & Co. pvt. ltd . COMPLIED Sample report attached.
(xv)	No ground water shall be extracted for use in operation of the power plant even in lean season.	No ground water is extracted in power Plant area for any operational use. COMPLIED
(xvi)	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.	The project work is completed without affecting any of the water bodies of the area. COMPLIED
(xvii)	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.	Zero liquid discharge system in outfall of BSL commonly used by BPSCL also is installed and no industrial effluent is discharged to outside water body. COMPLIED





(xviii)	COC (Cycles of Concentration) of 5.0 shall be adopted.	Cycles of Concentration is being maintained through Re-Circulation Pump House. COMPLIED	
(xix)	Regular monitoring of ground water level shall be carried out by establishing a network wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (hg, Cr, As, Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	Done through M/s. R.V. Briggs & Co. pvt. ltd which is an approved lab	
(xx)	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 shall be undertaken.	Necessary water test and analysis is done through M/s. R.V. Briggs & Co. pvt. ltd COMPLIED	
(xxi)	Waste water generated from the plant shall be treated before discharge to comply limits prescribed by the SPCB / CPCB.	Water is treated before discharge and an online effluent analysis syste is installed for regular monitoring. COMPLIED	
	The project proponent shall undertake rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises, Action plan for implementation shall be submitted to the Regional Office of the Ministry.	Rain water harvesting (RWH) is done through different drain channel network connected to water Reservoir of SAIL/BSL known as coolinger ponds of BSL. Also, RWH system for individual building has been commissioned.	
	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.	All efforts have been made for an effective natural drainage system and there is no accumulation of water inside plant premises. COMPLIED	
	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.	 a) Mobile medical unit has been started in collaboration with PSMRI for nearby village costing 49.51 Lakhs annually b) Jal Amrit project has been taken up with collaboration from Eureka Forbes Institute of Environment c) Gift Milk Project for Govt. School Students, is carried out with collaboration from NDDB for an amount of Rs. 87 lakhs annually COMPLIED. 	

(xxv) CSR schemes should address public hearing issues and shall be undertaken based on need assessment in and around the village's within 5 km of the site and in constant consultation with the village Panchyat and the District Administration. As part of CSR employment of local youth after imparting relevant training, as may be necessary, shall be undertaken as committed.	b) 'Swavalamban'-Employment linked training programme fo
(xxvi) An amount of Rs 1.40 Crores shall be earmarked as one time capital cost for CSR program as committed by the project proponent. Subsequently a recurring expenditure of Rs 0.30 Crores per annum till the life of the planet 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.	In Fy 2023-24 an amount of Rs. 188.74 lakhs has been spend under CSF scheme. Details attached COMPLIED.
(xxvii) It shall be insured that an in-built monitoring mechanism for the CSR schemes identified is in place and annual social audit shall be got done for 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. The achievements should be put on company's website.	BPSCL P&A section is looking after CSR of BPSCL. A senior level committee is present to monitor the progress of CSR activities. The achievements have been put on company's website www.bpscl.com COMPLIED.
(xxviii) Green Belt consisting of 3 tiers of plantations of native species around planet comprising of 33% of planet area shall be raised (except in areas not feasible). The density of trees shall not less than 2500 per ha with survival rate not less than 80%.	 Eco-friendly garden has been developed inside plant premises. Plantation works has been done on big scale. More than 15000 trees were planted in and around the plant area. The density of trees is more than 2500 and the survival rate is about 85%. 150 kg of grass seed (Estilo Hamata) planted in ash pond area for environment protection. Additionally, samplings of Kadam and bamboo trees are planted to develop the greenery. Regular plantation in and around peripheral areas are being carried out.

		 5. Tree saplings have been planted in ash pond and peripheral villages in this rainy season. 6. Power Plant is committed to maintain an eco-friendly environment. It is a continuous process and plant is adhering to this principle. 7. Plantation of Vetiver grass in our ash pond area is being carried out in phased manner. An area of 5460 sqm and 7500 Sqm has already been developed with greenery by use of vetiver grass.
(xxix)	An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the head of the Cell shall directly report to the Head of the Organization.	A proper environment cell has been created and working accordingly. COMPLIED
(i)	The treated effluents confirming to the prescribed standards only shall be recirculated and reused within the plant. Arrangements shall be made that effluents and storm water do not get mixed.	Effluent and storm water are linked to BSL system through separate channels and re-circulated for plant use through cooling ponds. ZLD is operational. COMPLIED
(ii)	A sewage treatment plant shall be provided. (As applicable) and the treated sewage shall be used for raising greenbelt / plantation.	Already in practice in our existing plant through BSL system. 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.	 a reservoir for firefighting purpose. c) Fire station also available within the plant premises of Bokaro Steel Plant under common sharing basis. d) Regular watering and water sprinkling have been done in summer season. e) 2 Nos Dry Fog Dust Separation systems have already been commissioned and working. One was in CHP package of unit#9 and other was separately installed for better environment. Documents have already been submitted. COMPLIED.
	Storage facilities for auxiliary fuel such as LDO / HFO / LSHS shall be made in the plant area in consultation with department of Explosives, Nagpur.	Permission has obtained from Petroleum and Explosive safety Organization for Petroleum class C installation and disaster

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	Plan shall be prepared to meet any eventuality in case of an accident taking place due to storage of oil.	Management Plan and Details of analysis of liquid fuel have been already submitted. COMPLIED.	
(v)	First Aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	First Aid medical help, health Centre is available inside plant premises for all contract workers and employees. COMPLIED.	
(vi)	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 85 dB (A) 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 compressor etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy / less noisy areas.	monitored regularly and protective equipments like ear plugs are muffs are made available for regular use. COMPLIED. Regular monitoring of ambient air ground level concentration of SC NOx, PM _{2.5} & PM10 are being monitored and data is displayed at plant premises. Our plant is integral part of Bokaro Steel plant and it ambient air and Bokaro steel City are being displayed all data at factor main gate and township. The same is applicable to us as being in the same premises.	
(vii)	Regular monitoring of ambient air ground level concentration of SO ₂ , NOx, PM _{2.5} & PM ₁₀ and Hg shall be carried out in the impact zone and records maintained. If any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional office of this Ministry. The data shall also be put on the website of the company.		
(viii)	Provision shall be made for the housing of construction labour (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.	No such provisions were needed during the execution of project as the project site is near to township and all temporary structure are removed. 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.	The advertisements regarding environmental clearance accorded for the projects are published in newspapers including local ones. COMPLIED.	

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(x)	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilaparisad / Municipal Corporation, urban local Body and the Local NGO, if any, from whom suggestions / representations, if any, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Public hearing was conducted for suggestion and representation of local bodies for environment clearance of the project. A copy of clearance letter has been already submitted to Chas Municipal corporation. The Environment Clearance letter have been put on the website of the company www.bpscl.com
		COMPLIED.
(xi)	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored date on their website and shall update the same periodically. It shall simultaneously	Report of Pollutant parameters like SPM, SO ₂ , NOx for ambient and stack are sent to MOEF regional office, JSPCB and SPCB. The SPM, RSPM (PM _{2.5} & PM ₁₀), SO ₂ , NOx have been displayed at the main gate
	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} &	of the company in the public domain.
	PM_{10}), SO_2 , NOx (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the	COMPLIED
(xii)	public domain. The environment statement for each financial year ending 31st March in	Environment statement for each financial year ending 31st March in
(XII)	From-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the	From-V is being sent to state Pollution Control Board and Regional offices of MOEF. Also the report is put on the website.
	environmental (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	COMPLIED.
(xiii)	Regional Offices of the Ministry by e-mail The project proponent shall submit six monthly reports on the status of the	Reports are being sent to regional office and pollution board office
(/////	implementation of the stipulated environmental safeguards to the Ministry of environment and Forests, its Regional Office, Central Pollution Control	regularly.
	Board and State Pollution Control Board. The project proponent shall upload the stats of compliance of the environment of the environmental clearance	COMPLIED.
	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.	
(xiv)	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 Environmental	Six monthly reports are being sent to the regional office of ministry with documents in support including EMP and EIA. Ambient Pollution parameters are displayed at factory main gate where the power plant is
	Management plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during	situated. COMPLIED.

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	monitoring. Project proponent will up-load the compliance status in their	
	website and up-date the same from time to time at least six monthly basis.	
	Criteria Pollutants levels including NOx (from stack & ambient air) shall be	
	displayed at the main gate of the power plant.	
(xv)	Separate funds shall be allocated for implementations of environmental	Separate budgetary allocation is being made for environment
100	protection measures along with item wise break-up. These cost shall be	protection measures.
	included as part of the project cost. The funds earmarked for the environment	COMPLIED.
	protection measures shall not be diverted for other purposes and year-wise	
	expenditure should be reported to the Ministry.	
(xvi)	The project authorities shall inform the Regional Office as well as the	Plant already commissioned in Sept 2014. Financial closure is yet to be
	Ministry regarding the date of financial closure and final approval of the	done. Regional office and ministry will be informed accordingly.
	project by the concerned authorities and the dates of start of land	,
	development work and commissioning of plant.	COMPLIED.
(xvii)	Full cooperation shall be extended to the Scientists / Officers from the	All sorts of cooperation to different agencies being extended at all
	Ministry / Regional Office of the Ministry / CPCB/SPCB who would be	times. Further Cooperation is assured as and when required for
	monitoring the compliance of environmental status.	monitoring of compliance of environment status.
		COMPLIED.

CGM./Environment

A. K. DAS
C.G.M. (MM, Civil & Environment)
Bokaro Power Supply Co. (P) Ltd.
(A Joint Venture of SAIL & DVC)
Bokaro Steel City

Ash generation vs utilization in BPSCL

Sl. No.	Description	FY 2023 - 24
1 Total Coal Consumption		12,37,918 MT
2	Average ash content (as per test report avilable with coal coordination)	0.39
3	Total Ash Generation	4,88,358.65MT
5	Total ash utilized in low lying area	336,550
6	Total ash utilized in Fly ash Brick manufacturing in-house	405.20MT
7	Total ash utilized other than BPSCL (Through road mode)	18,135 MT
8	M/s Orient Exports Pvt. Ltd. (Through rail mode)	43,162.80 MT
9	Total Ash utilisation (MT)	3,98,253 MT
10	% Utilization	81.55%



Environment BPSCL <environmentbpscl@gmail.com>

CSR activity details for FY 2023-24

2 messages

BPSCL ENVIRONMENT <environmentbpscl@gmail.com>

Thu, Jun 13, 2024 at 12:35 PM

To: bpsclcsr@gmail.com

Cc: akdas <a,k,das@bpscl.com>

Dear Sir

Kindly send the detailed CSR activities taken up in Fy 2023-24 for filing of return of Environmental Clerance.

Regards

M S Mondal

AGM/CED & Env.

Environment Department

Bokaro Power Supply Co (P) Ltd.

(A Joint Venture of SAIL & DVC) Hall No. : M-01, Old ADM Building Ispat Bhawan, Bokaro Steel City-827 001

Email: environment.bpscl@gmail.com

website: www.bpscl.in

BPSCL CSR
bpsclcsr@gmail.com>

Sat, Jun 15, 2024 at 5:46 PM

To: BPSCL ENVIRONMENT <environmentbpscl@gmail.com>

Dear Sir.

Please find the CSR Expenditure details for FY-2023-24 as required by you

	CSR Expenditure for FY 2023-24				
	Provisional Budget for FY 2023-24 (In Lakhs)				
Sl.No.	Projects	Sector	Agency	Spent (In Lakhs)	
1	Remaining instalments (10%) towards skill development under project SWAVLAMBAN	Skill Development	Construction Industry Development Council	2.45	
2	Jal Amrit	Supply of Drinking water	Eureka Forbes Institute of Environment	1.32	
3	MMU Servicing, Road Tax, Insurance, Painting, Fitness etc.	Misc	Direct	1.89	
4	SWASTHYA KIRAN -OPEX of Mobile Medical Unit	Preventive Healthcare	Piramal Swasthya Management and Research Institute	49.51	
5	GiftMilk project for Govt. School Students	Eradication of Malnutrition	NDDB Foundation for Nutrition	87.00	
6	Installation of CCTV Camera at ASHA LATA Buildings	Education	Asha Lata Viklang Vikas Kendra	2.51	
7	Repair & Renovations of Sangeet Kala Academy Building	Art and Culture	Bokaro Sangeet Kala Academy	4.93	
8	SWAVLAMBAN - Employment linked training in ectrician/plumber/mason discipline	Skill Development	Construction Industry Development Council	22.08	
9	Financial Assistance to 100 nos of ASHA LATA students under SAHYOG	Education	Asha Lata Viklang Vikas Kendra	9.60	
10	Bio Gas, Manure Mgmt. project (GO GREEN)	Livelihood promotion	NDDB Foundation for Nutrition	7.44	
	Total CSR Expenditure for the Year 2023-2024				

Thanks & Regards,

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Thanks Regards,