

ACB (INDIA) LIMITED

30MW Chakabura Power Plant, P.O.-Jawali Tehsil-Katghora Dist - Korba (C.G.) 495445, Tel : 07815-285511, 285512 Fax 07815-285884, 285885, Email : 2x30mw@acbindia.com

Ref: ACBIL/2X30MW/ENV/2023/045 Email: aryanpower30@gmail.com

Dated: 25.05.2023

To

Regional Officer,

Chhattisgarh Environment Conservation Board, Korba, (C.G.).

Sub: M/s. ACB (India) Limited, 30 MW Coal Washery Rejects Based Thermal Power Plant at Village-Chakabura, Tehsil-Katghora, District-Korba, Chhattisgarh - 495445 - Submission of Six monthly compliance report for the period Oct 2022 to March 2023- reg.

Ref: Environmental Clearance no.378/SEIAA-CG/EC/TPP/ KOR/77/09, dated 23.11.2009.

Dear Sir

As per the conditions in the SEIAA/MoEF Environmental Clearance, please find attached the Six Monthly compliance reports and the monitoring data along with statistical interpretation for the period October 2022 to March 2023.

Kindly acknowledge on the receipt of the same

Yours faithfully,

For ACB (India) Limited.

Authorized Signatory

Encl: As Above.

102 06 2013

Head Office: ACB (India) Ltd., 7th Floor Ambience Office Block, Ambience Mall, Ambience Island, NH -C8, Gurgaon (Haryana)
Ph.: 0124-2719000, Fax: 0124-2719185, Email - aryancoalhq@vsnl.net, Website - www.aryancoal.com



Six Monthly EC Compliance Report (Oct 2022 to March 2023) ACBIL 2X30 MW TPP-Reg.

1 message

Krishnamoorthy Govindan krishnamoorthy.govindan@acbindia.com

Thu, Jun 1, 2023 at 5:24 PM

To: IRO Raipur <iro.raipur-mefcc@gov.in>, seiaacg@gmail.com, hocecb@gmail.com, Regional Office Korba <rocecbkorba@gmail.com>

Cc: G Sambasiva Rao <Sambasiva.Rao@acbindia.com>

Dear sir,

Please find attached herewith six monthly compliance reports of ACB (India) Limited, 2X30 MW Thermal Power Plant at Po-Jawali, Tehsil-Katghora, District-Korba, Chhattisgarh for the period of Oct 2022 to March 2023.

Note: Hard copy of six monthly compliance reports sent by courier.

This is for your information and record please.

Thanks with regards Dr.G.Krishnamoorthy Sr.Manager-Environment Ph. +91 9940265695

5 attachments





Regional Officer, CECB, Korba. PDF 1905K

Member Secretary, SEIAA, Raipur. PDF 1826K

Monitoring Report.PDF 10113K



SIX MONTHLY COMPLIANCE REPORT OCTOBER-2022 TO MARCH 2023

ACB (India) Limited Village-Chakabura, Tehsil-Katghora, District-Korba, Chhattisgarh - 495445.

ACB (India) Limited Village-Chakabura, Tehsil-Katghora, District-Korba, Chhattisgarh- 495445

Compliance status of the conditions under Environmental Clearance F.No. 378/SEIAA-CG/EC/TPP/KOR/77/09, dated 23.11.2009

S. No.	C Y		project within 8.96 he lend as	
2				
3	Project proponent shall provide a for proper treatment of industria effluent. Project proponent shall treatment plant before commis plant. All the effluent treatment kept in good running condition a failure (if any), shall be immed without delay otherwise sa arrangement shall be made. Proshall ensure the treated effluent standard prescribed by Ministry of & Forests, Government of India.	al and domestic provide effluent sioning of the system shall be all the time and liately rectified ame alternate oject proponent quality within	 Appropriate effluent treatment plant for the treatment of industrial effluent (ETP) capacity of 1000 KLD and a Sewage treatment plant capacity of 10 KLD for the domestic sewage installed and operational. Enclosed Photographs as Annexure-2. Already submitted to MoEF &CC, Raipur dated 26.04.2023. Treated effluent quality is maintained within standards prescribed by Ministry of Environment, Forests and Climate Change, Government of India. Enclosed Effluent monitoring report as Doc-09. Already submitted to MoEF &CC, Raipur dated 26.04.2023. 	
;] S f	the river or any surface water bodies under any circumstances, and it shall be reused wholly in the process/plantation. All the industrial effluent generated shall be recirculated/reused after proper treatment. Project proponent shall provide sewage treatment plant of adequate capacity for treatment of domestic effluent generated from township. The un-treated/treated domestic effluent shall not be discharge into the river or any surface water bodies. The treated domestic effluent shall be used for plantation purpose after proper disinfections.		 No liquid effluent is discharged into the river or any surface water bodies. DM water blow down after treatment in neutralization pit is being used for dust suppression. Blow down water after treatment is being used for green belt development. We have installed 10 KLD STP for domestic effluent treatment and presently working in good condition. Not discharged any Untreated/treated domestic effluent into river or any surface water bodies. After treatment domestic effluent is being used for green belt development. Industry provided sultable garland drain facility inside the plant premises. Enclosed garland drain photographs as Annexure-3. Already submitted to MoEF &CC, Raipur 	

	maintained all the time except during monsoon Arrangements shall be made that effluents and	dated 26.04,2023.
	storm water do not get mixed.	• The plant is operating on Zero Discharge Concept and no effluent is drained outside the plant premises except monsoon season. Appropriate arrangements are made in the project.
5	Project proponent shall provide adequate measuring arrangements for the measurement of water utilized in different categories and effluent generated before commissioning of the plant.	Adequate metering arrangement for the measurement of water utilized in different categories and effluent generation has been installed. Enclosed metering arrangement photographs as Annexure-4. Already submitted to MoEF &CC, Raipur dated
6	As no additional water will be required for proposed 30 MW power plant over and above the previous allocated water for the existing 30 MW power plant and coal washery, hence closed cycle cooling system (water cooled condensers) with COC of at least 6 shall be adopted.	Water balance and water allotment and agreement letter enclosed as Annexure-5 & Doc-5 . Already submitted to MoEF & CC, Raipur dated 26.04.2023. Closed circuit system with a COC of 6 is maintained for conservation of water as per the prescribed norms. Annexure-6 . Already submitted to MoEF & CC, Raipur dated 26.04.2023.
7	Project proponent shall explore the possibility of independent and dedicated air cooled condensers with auxiliary system for each turbine unit.	Independent and dedicated air cooled condensers with auxiliary system for 30 MW turbine unit are installed.
t t c c e ((nn v c c p a in nr re o i	effective air pollution control equipments at all transfer points, junction points etc., also. All the conveying system, transfer point, junction points etc. shall be covered. Closed conveying system Tube conveyor) with dust suppression mechanism shall be used for transport of coal washery reject from the coal washery and for carrying the ash to the disposal areas. Adequate	 Air pollution control equipment's at all point and non-point source of pollution have been installed. Enclosed as Annexure-7 & 8. Already submitted to MoEF &CC, Raipur dated 26.04.2023. High efficiency ESP with Fabric filter is installed to maintain an emission level of less than 50 mg/Nm³. Online website details i.e. Web: envisceeb.org/User id: AcbIndia Password: Acb_india123 Adequate number of Dust Suppression and Extraction System are installed. Space has been kept for further retrofitting of air pollution control systems in case of further stringent of particulate matter emission limit is required. All the conveying system transfer point junction points are covered. For controlling fugitive dust, regular sprinkling of water in coal handling and other vulnerable areas of the plant is being done as per requirement.

	Particulate 50 mg/Nm ³	
	Matter (Fifty Milligram per Normal Cubic Meter)	
	Project proponent shall provide proper space	e
	provision for further retrofitting of air pollution	1
	control systems in case of further stringent o particulate matter emission limit.	1
	9 All air pollution control systems shall be kept in	i situati by been built
	good running conditions all the time and failure (if any), shall be immediately rectified without	maintained in and
	delay otherwise sane alternate arrangement shall	
	be made. In the event of any failure of any	
1	pollution control system adopted by the	
	industry, the respective production unit shall not be restarted until the control measure are	
	rectified to achieve the desired efficiency.	
1	0 Regular monitoring of ground level	• Monthly Environmental monitoring has
	concentration of SO2, NOx, SPM and RSPM	been carried out through NADI aggred 1
	shall be carried out in the impact zone and records maintained.	lab for ground level concentration of SO ₂ .
	records mannamed.	NO _x , SPM and RSPM in the impact Zone
	If at any stage these levels are found to exceed	and records being maintained regularly.
	the prescribed limits, necessary control	• Necessary control measures to be taken immediately. The locations of the
1	measures shall be provided immediately. The	monitoring stations and frequency of
	location of the monitoring stations and frequency of monitoring shall be decided in	monitoring has been decided by CECB.
	consultation with CECB Raipur.	Raipur. Enclosed monitoring location maps
		as Annexure-9. Already submitted to MoEF &CC, Raipur dated 26.04.2023.
	Periodic reports shall be submitted to SEIAA	• Periodic reports are being submitted to
	Chhattisgarh and the Regional Office Bhopal, of Ministry of Environment & Forests	SEIAA Chhattisgarh and the Regional
	Ministry of Environment & Forests, Government of India.	Office, Raipur of Ministry of Environment,
		Forests and Climate Change (MoEF &CC),
		Government of India, Enclosed as-Doc.9. Already submitted to MoEF &CC, Raipur
	# for	dated 26.04.2023.
11	Project proponent shall provide a single flue	Single Flue stack of 90 m height and 3.5 m
	stack of 90 meters height with top internal diameter of 3.5 meter for adequate dispersal of	
	gaseous pollutants emitted from boilers with	monitoring facility for SOx, NOx and Particulate Matter provided.
	continuous online monitoring instrument for	raticulate watter provided.
	SO _x , NO _x , and Particulate Matter. Exit velocity	Web: enviscecb.org/
	of flue gaseous shall not be less than 23.0 Nm ³ /sec for adequate dispersal of gaseous	User id: AcbIndia
	pollutants.	Password: Acb_india123
	Continuous record of exit velocity shall also be	Exit velocity of flue gases pollutants level maintained less than 23.0 Nm3/sec. Regular
	maintained and submitted to the SEIAA, CG	exit velocity data being submitted to
	and Regional Office, Ministry of Environment	SEIAA, CG and Regional Office, Ministry
	& Forests, Government of India, Bhopal on a yearly basis. The height of other stack(s) shall	of Environment, Forests and Climate
	not be less than 30 meters.	Change (MoEF &CC), Government of India Pointy on half words by T. T.
		India, Raipur on half yearly basis. Enclosed stack photographs as Annexure-10 . Already
	1.5	submitted to MoEF &CC, Raipur dated
12		26.04.2023.
		Sulphur and ash contents in the liquid are
	exceed 0.4% and 55 % respectively at any given	less than 0.4% and 55% respectively maintained.
1.0	time.	
13	Adequate number of permanent ambient air	ACBIL installed four numbers of
		Continuous Amblent Air Quality
		Monitoring Stations (CAAQMS). Enclosed

down with direction as well as where maximum ground level concentrations are anticipated in consultation with the Chhattisgarh Environment Conservation Board, Monitoring network shall be designed taking into account the environmentally and ecologically sensitive targets, land use pattern, location of the stacks, meteorological conditions and topographic features including existing ambient air quality data. The data so collected shall be properly analyzed and submitted to the SEIAA CG and Regional Office, Ministry of Environment are Porests, Government of India, Bhopal in every six months. Space provision for installation of flue gas desulphurization plant (FGD) shall be made so that the same could be installed, if required from environmental angle. Due to commissioning of the power generation units, if 98 percentile values for SO2 (based on actual monitored field data) in the ambient air of nearby areas executed the prescribed permissible limit for respective sensitive areas, rural, residential and other areas, project propopent shall install separate electric metering arrangements with time totalizer for the running of pollution control device (devices shall immediately stop the electric supply to the flue supply system and shall remain tripped till the pollution control device (devices shall immediately stop the electric supply to the flue supply system and shall remain tripped till the pollution control device (devices are made functional again project proponent shall install dry (by ash extraction, system), and hall be adopted. No ush dyke shall be utilized tone shall perfect the specifical uses such as prices by the shall be adopted. No ush dyke shall be utilized to achieve the desired efficiency. To reduce the load on surface water source, dry ash extraction, bandling and disposal system and shall be adopted. No ush dyke shall be utilized to achieve the desired efficiency. To reduce the load on surface water source, dry ash extraction, bandling and disposal system is project proponent shall install st			
sulphurization plant (FGD) shall be made so that the same could be installed, if required from environmental angle. Due to commissioning of the power generation units, if 98 percentile values for SO2 (based on actual monitored field data) in the ambient air of nearby areas exceed the prescribed permissible limit for respective sensitive areas, rural, residential and other areas; project proponent shall install separate electric metering arrangements with time totalizer for the running of pollution control device. These arrangements with time totalizer for the running of pollution control device devices shall immediately stop the electric supply to the fuel supply system and shall remain tripped till the pollution control device/devices shall immediately stop the electric supply to the fuel supply system and shall remain tripped till the pollution control device/devices shall immediately stop the electric supply to the fuel supply system and shall remain tripped till the pollution control device/devices are made functional again/rectified to achieve the desired efficiency. 16 To reduce the load on surface water source, dry ash extraction, handling and disposal system shall be adopted. No ash dyke shall be constructed. 16 To reduce the load on surface water source, dry ash extraction, handling and disposal system shall be adopted. No ash dyke shall be constructed. 16 To reduce the load on surface water source, dry ash extraction, handling and disposal system shall be adopted. No ash dyke shall be constructed. 17 Project proponent shall incorporate total ash utilization as integral part of the project. Project proponent shall grow the project project proponent shall grow the project. Project proponent shall grow the project. Project proponent and project proj		down wind direction as well as where maximum ground level concentrations are anticipated in consultation with the Chhattisgarh Environment Conservation Board. Monitoring net-work shall be designed taking into account the environmentally and ecologically sensitive targets, land use pattern, location of the stacks, meteorological conditions and topographic features including existing ambient air quality data. The data so collected shall be properly analyzed and submitted to the SEIAA CG and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal in every six	Annexure-11. Already submitted to MoEF &CC, Raipur dated 26.04.2023. The data collected is being submitted to the Chhattisgarh Environment Conversation Board, Raipur & Regional Office, Korba, SEIAA, Chhattisgarh and Integrated Regional Office, Ministry of Environment, Forests & Climate Change (MoEF & CC).
the power generation units, if 98 percentile values for SO2 (based on actual monitored field data) in the ambient air of nearby areas exceed the prescribed permissible limit for respective sensitive areas, rural, residential and other areas; project proponent shall install flue gas desulphurization units immediately without any delay. Project proponent shall install separate electric metering arrangements with time totalizer for the running of pollution control devices. These arrangements shall be made in such a fashion that any non-functioning of pollution control device / devices shall immediately stop the electric supply to the fuel supply system and shall remain tripped till the pollution control device/devices are made functional again / rectified to achieve the desired efficiency. To reduce the load on surface water source, dry ash extraction, handling and disposal system shall be adopted. No ash dyke shall be constructed. Project proponent shall incorporate total ash utilization as integral part of the project, Project proponent shall install dry fly ash extraction system so that ash generated during the power generation, collected in dry form and it shall be utilized 100% for other beneficial uses such as bricks/blocks /products making, road construction, cement making, abandoned mines filling and low lying area filling etc. as per guidelines/ notification of Ministry of Environment and Forests, Government of India/ Central Government/ Central Pollution Control Board. Project proponent shall provided silos of adequate capacity with pneumatic/ automatic arrangement of dry fly ash withdrawal to avoid dust emiasions for dry collection and withdrawal of fly ash generated to facilitate the use of fly ash for different beneficial purposes such as	14	Space provision for installation of flue gas de- sulphurization plant (FGD) shall be made so that the same could be installed, if required from	FGD.
metering arrangements with time totalizer for the running of pollution control devices. These arrangements shall be made in such a fashion that any non-functioning of pollution control device /devices shall immediately stop the electric supply to the fuel supply system and shall remain tripped till the pollution control device/devices are made functional again /rectified to achieve the desired efficiency. To reduce the load on surface water source, dry ash extraction, handling and disposal system shall be adopted. No ash dyke shall be constructed. Project proponent shall incorporate total ash utilization as integral part of the project. Project proponent shall install dry fly ash extraction system so that ash generated during the power generation, collected in dry form and it shall be utilized 100% for other beneficial uses such as bricks/blocks /products making, road construction, cement making, abandoned mines filling and low lying area filling etc. as per guidelines/ notification of Ministry of Environment and Forests, Government of India/Central Government/ Central Pollution Control Board. Project proponent shall provided silos of adequate capacity with pneumatic/ automatic arrangement of dry fly ash withdrawal to avoid dust emissions for thy collection and withdrawal of fly ash generated to facilitate the use of fly ash for different beneficial purposes such as	15	the power generation units, if 98 percentile values for SO2 (based on actual monitored field data) in the ambient air of nearby areas exceed the prescribed permissible limit for respective sensitive areas, rural, residential and other areas; project proponent shall install flue gas desulphurization units immediately without any delay.	not exceeded and also there is no surrounding effect like sensitive, rural, residential and other area so far.
 To reduce the load on surface water source, dry ash extraction, handling and disposal system shall be adopted. No ash dyke shall be constructed. Project proponent shall incorporate total ash utilization as integral part of the project. Project proponent shall install dry fly ash extraction system so that ash generated during the power generation, collected in dry form and it shall be utilized 100% for other beneficial uses such as bricks/blocks /products making, road construction, cement making, abandoned mines filling and low lying area filling etc. as per guidelines/ notification of Ministry of Environment and Forests, Government of India/ Central Government/ Central Pollution Control Board. Project proponent shall provided silos of adequate capacity with pneumatic arrangement of dry fly ash withdrawal of fly ash generated to facilitate the use of fly ash for different beneficial purposes such as 		metering arrangements with time totalizer for the running of pollution control devices. These arrangements shall be made in such a fashion that any non-functioning of pollution control device /devices shall immediately stop the electric supply to the fuel supply system and shall remain tripped till the pollution control device/devices are made functional again /rectified to achieve the desired efficiency.	metering arrangements with time totalizer for the running of pollution control devices. Enclosed energy meter and totalizer as Annexure-12 . Already submitted to MoEF &CC, Raipur dated
The state of the s		ash extraction, handling and disposal system shall be adopted. No ash dyke shall be constructed. Project proponent shall incorporate total ash utilization as integral part of the project. Project proponent shall install dry fly ash extraction system so that ash generated during the power generation, collected in dry form and it shall be utilized 100% for other beneficial uses such as bricks/blocks /products making, road construction, cement making, abandoned mines filling and low lying area filling etc. as per guidelines/ notification of Ministry of Environment and Forests, Government of India/Central Government/ Central Pollution Control Board. Project proponent shall provided silos of adequate capacity with pneumatic/ automatic arrangement of dry fly ash withdrawal to avoid dust emissions for dry collection and withdrawal of fly ash generated to facilitate the use of fly	 Silos of adequate capacity with pneumatic/automatic arrangement of dry ash storage constructed and in use. Enclosed silo photographs as Annexure-13. Already submitted to MoEF &CC, Raipur dated 26.04.2023. Dry bottom ash handling system is installed and being used. Ash silo of adequate capacity is provided, Ash sent to brick/ block/ products making.
Page 5 of 12	10	tor unferent beneficial purposes such as	

	brick/ block/ Products making, roa-	1
	construct.	
	construction, Cement Making, etc. No)
	permanent storage of fly ash shall be created and	<u> </u>
	during the transition. Project proponent shall	
	also use fly ash/ bottom ash/ pond ash based	1
	products for the construction activities.	•
1	7 Decises	
1	groponone shall listan ity get	• Fly Ash Brick Plant installed and
	brick/block/products-manufacturing machine or	Operational Englaced unit what
	adequate capacity before start of construction	
	activities of super structure of 30 megawat	The state of the s
	units Project management 1 II and megawat	&CC, Raipur dated 26.04.2023.
	units. Project proponent shall utilize the fly asl	
1	bricks/blocks etc. manufactured by own fly ash	• Fly ash used for making of ash brick/
1/101	brick/block manufacturing machine in its	The state of the s
70	construction activities. Project proponent shall	products and also construction
	procure fly och from - 1	purpose.
	procure fly ash from nearby power plants for	
	manufacturing of fly ash brick /block/products	
	till the commissioning of the power plant. After	
	commissioning of the power plant, the fly ash	
	generated from nower plant at the city asi	
	generated from power plant shall be utilized for	
	manufacturing of fly ash brick/block/products.	
	Projects proponent shall install additional fly	
	ash brick/block/products-manufacturing	
	and date capacity belofe	
	commissioning of the power plant.	
18	3. Proposition shall follow the guidelines.	ACBIL following all guidelines issued by
	notification etc. for utilization of fly ash/bottom	the Minister of Environment 1.5
	ash/pond ash issued by Ministry of Environment	the Ministry of Environment and Forests,
	and Forests C-	Government of India/Central
	and Forests, Government of India/Central	Government/Central Pollution Control
	Government/Central Pollution Control Board	Board for utilization of fly ash/bottom
	from time to time. 100% fly ash utilization shall	ash/pond ash.
	be achieved within 9 years in accordance with	asa pond asn.
	the notification on the set will accordance with	.*
	the notification on fly ash utilization SO 763 (E)	
	dated 14/09/1999 and the amendments made	
	therein from time to time. Industry shall abide	
	by the decisions taken by Ministry of	
	Hayaranant and E	
	India/Control Dallacia Control Dallacia	
	India/Central Pollution Control Board from time	
	to time regarding use of fly ash/bottom ash/pond	
	ash.	
19	Project proponent shall take effective steps for	ACDI
	safe disposal of solid want	• ACBIL taken effective steps for safe
	safe disposal of solid wastes and sludge.	disposal of solid waste and sludge.
		Hazardous waste authorization obtained
	Project proponent shall obtain authorization	from Chhattisgarh Environment
	from Board for management and handling of	Bit it of the first
	Hazardous Wastes as per Hazardous Wastes	Conservation Board. Vide letter no
	(Managament II III	918/HSMD/HO/CECB/2022, Dated
	(Management, Handling and Transboundary	10/05/2022 valid from 15.02.2022 to
	Movement) Rules, 2008.	14.02.2027.Enclosed as Doc-04. Enclosed
		hozardous waste steered as Duc-04. Eliciosed
		hazardous waste storage shed photographs
	7,	as Annexure-15. Already submitted to
20	A 11	MoEF &CC, Raipur dated 26.04.2023.
20	All the internal roads shall be made pucca	• All internal roads are made pucea.
	before commissioning of the power plant. Good	Enclosed whote a large flage pucca.
	housekeeping practices shall be adopted by the	Enclosed photographs as Annexure-16.
	project propoport	Already submitted to MoEF &CC, Raipur
	project proponent.	dated 26.04.2023.
		• Good housekeeping practices are adopted
		in the plant premises. Enclosed
		photographs as Annexure-16.a. Already
		submitted to MoEF &CC, Raipur dated
		26.04.2023.
21	Project proponent shall take proper action to	A CIPIT
	proper detion to	• ACBIL appointed third party NABL

	control the noise pollution. Project proponent shall install appropriate noise barriers/control measures including acoustic hoods, silencers enclosures etc. on all sources of noise generation to control the noise. Earplugs/ear muffs etc shall be provided to the employee working in the area of generator halls and other high noise areas. Leq of /noise levels emanating from turbines shall be limited to 75 dB(A). The noise level shall not exceed the limits 75 dB(A) during the daytime and 70 dB (A) during the nighttime within the factory premises. Project proponent shall take adequate measures for control of noise level below 80 dB (A) in the work environment. 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.	monitoring at different location of plant. Enclosed noise monitoring location map and report as Annexure-09. Already submitted to MoEF &CC, Raipur dated 26.04.2023. • Personal Protective Equipment's e.g Ear plug/ear muffs etc are provided to all personnel working in high noise level areas as Annexure-17. Already submitted to MoEF &CC, Raipur dated 26.04.2023. • We have ensured that the Leq of noise level is maintained within norms.
	Project proponent shall provide appropriate arrangements to avoid air pollution, water pollution, noise pollution etc. during construction phase and during transportation of plants/ machineries/ equipments/ construction materials etc. to the site for 30 megawatt units. For controlling fugitive dust during transportation and construction works, regular sprinkling of water in village roads and other vulnerable areas of the plant shall also be ensured. The emission from vehicles engaged for transportation of plants/ Machineries/ equipments/ construction materials etc. to the site shall be ensured within prescribed vehicle emission norms. First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	 ACBIL appointed third party NABL accredited lab for conducting air pollution, water pollution, noise pollution, fugitive dust monitoring, etc during construction and operation of plant at different location of plant. Regular sprinkling of water on transport roads is being done through 10 KLD truck. Enclosed photographs as Annexure-17.a. Already submitted to MoEF &CC, Raipur dated 26.04.2023. First aid and sanitation arrangements are made available.
2.4	The construction of effluent treatment plant and installation of air pollution control equipments shall be taken up simultaneously with other civil/mechanical works of 30 megawatt units. The progress of the activities related to the project shall be submitted periodically to SEIAA, CG and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal.	ACBIL already installed 1000 KLD capacity of Effluent treatment plant (ETP) and air pollution control equipment.
24	number of influent and effluent quality monitoring stations/points in consultation with Chhattisgarh Environment Conservation Board. Regular monitoring shall be carried out for relevant parameters. Regular monitoring of surface and ground water quality including heavy metals shall be undertuken around the project area to ascertain the change in the water quality, if any, due to leaching of contaminants from disposal	Online effluent quality monitoring station was installed for measurement for effluent quality continuously. System is already connected to server of CECB and CPCB as per guidelines. Enclosed online connectivity analyzer photographs as Annexure-17.b. Already submitted to MoEF &CC, Raipur dated 26.04.2023. Web. envisceeb.org/ User id: AcbIndia Password: Acb_india123

	Continuous monitoring of ground water level and quality shall be carried out by establishing	
	network of existing wells and constructing new piezometers at suitable locations at the	Board, Raipur, Regional Office.
	proponents cost in around project area in	Board Korba SELAA Chhatianal
	consultation with Regional Director, CGWB	Regional Office Ministry of Empire
	Central Region Bhopal. Project proponent shall install at least four observation wells around the	L & Foreste Government of India Diamit
	fly ash disposal area.	• Installation of piezometer around the as
	5 A.I	dyke area being established in consultation with CGWB within 6 months period
2	Adequate safety measures shall be provided in the plant area to check/wining	Adequate Safety measures are provided in
	the plant area to check/minimize spontaneous fires in fuel yard, especially during summer	
	season. Copy of the these measures with full	spontaneous fires in fuel yard.
	details along with location plant layout shall be	
	submitted to SEIAA, CG and Regional Office.	
	Ministry of Environment & Forests	
20	Government of India, Bhopal.	
2.	Storage facilities for auxiliary liquid fuel such as LDO and/HFO/LSHS shall be made in the plant	i i i i i i i i i i i i i i i i i i i
	area where risk is minimum to the storage	
	facilities.	norms in the plant area where risk is minimum to the storage facilities enclosed
		tank photographs as Amnormus 17
	Disaster Management plan shall be prepared to	Already submitted to Make &CC Date
	meet any eventuality in case of an accident taking place.	dated 26.04.2023.
	taking place.	Disaster Management plan is prepared to
	Mock drills shall be conducted regularly and	meet any eventuality details already
	based on the same, modifications required, If	submitted. Enclosed Onsite emergency
	any shall be incorporated in the DMP.	plan as Annexure-18 . Already submitted to MoEF &CC, Raipur dated 26.04.2023.
		Mock drills are conducted regularly, based
	Sulphur content in the liquid fuel will not exceed 0.5%.	on finding, modifications will be done if
	CACCEU 0.3%.	required. Recent mock drill report attached
	1.4	as Annexure-18a. Already submitted to
		MoEF &CC, Raipur dated 26.04.2023.
27	A wide groon belt of bread 1 C. I.	• Sulphur content in the liquid is less than 0.5%
2,	A wide green belt of broad leaf local species shall be developed in at least 35% of the project	• Green belt has been developed all along
	area. As for as possible maximum area of open	the boundary of the ash pond area.
	spaces shall be utilized for plantation purposes.	• Local broad leaf species are selected for plantation purposes
		• Plant has already achieved the target for
	Project proponent shall abide by the decisions	the development of green belt /plantation
	taken by Ministry of Environment and forests, Government of India/Central	to covers 35 % area of the plant premises.
	Government of India/Central Government/Central Pollution Control Board	• A thick green belt has been developed
	from time to time in this regard. Tree density of	along the peripheral boundary of the plant.
	1500-2000 trees per hectare with local broad	Regular plantation is carried out as per the
	leaf species should be maintained. At least 3.23	guidelines inside the plant with native plant species. Year wise plantation details
	ha (about one third of the total plant area) shall	enclosed as Annexure-19 & Doc 5.
	be used for green belt development.	Already submitted to MoEF &CC, Raipur
20		dated 26.04.2023.
28	Project proponent shall provide garland drains	ACBIL provided required garland drains
	with appropriate check dams all along the fuel, dust / ash storage areas etc. to avoid any	with check dam along the dust/ash storage
	possibility of erosion (wearing away) during	area and there will not be any crosion
		during rainy season.
		• Garland drain provided dimension details. Length Wide Depth
	Garland drain (size, gradient & length) and	Location Length Wide Depth Mtr. mm mm

	sump capacity shall be designed keeping 50% safety margin over and above the peak sudde rainfall and maximum discharge in the are adjoining the project site. Sump capacity shall	Generator building to	260	400	600 to 800
	also provide adequate retention period to allow proper settling of silt material. Sedimentation	Boner to ETP	340	400	600 to 800
	pits shall be constructed at the corners of the garland drains. Project proponent shall provide adequate	silo	480	600	600 to 1200
	Project proponent shall provide adequate collection and treatment arrangement for proper management of storm water. The surface run-of shall be de-silted through a series of check dams and drains.	Generator	810	600	400 to 1000
	and drains.	CHP area	340	400	400 to 800
29	Dain man	 We have provide m³ with proper Sedimentation corner of garlant ACBIL provide facility for standard run-off dams and drains 	settling prits also de drains, ed collectorm was de-siltenge.	orovision. o constru tion and ater and ed throug	cted eac treatmen separat gh chec
29	Rain water harvesting structures shall be provided to reduce load on ground water. Either rain water shall be properly stored and used for various processes. Project proponent shall adopt rainwater- harvesting technique in the project area and residential area for recharge of ground water. The rainwater-harvesting technique shall be incorporated right from the design stage of all structures. Project proponent shall develop rainwater-harvesting structures to harvest the rainwater for utilization in the lean season as well as to recharge the ground water table. A detailed scheme for rainwater harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/State Ground Water Board. A copy of the same shall be submitted within three months to the SEIAA, CG and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal. No ground water shall be used for any purpose.	ACBIL constructions pit a areas for ground rainwater rechards Already submitted dated 26.04.202 We have developmentally development with capasity of the control	icted roof lithe build water runge pit ded to M 3. opped rain poir for unacity of little lit	ildings, recharge. as Anno oEF &CO n water h utilization 200 cum. to rechatails subjected Environmendia, Raij	esidentia Enclose Exure-20 C, Raipu arvesting of lear irge the mitted to Regional ent and pur.
30	Project proponent shall establish an environmental management cell to carryout function relating to environmental management under the supervision of senior executive who will directly report to the head of organization. A full-fledged laboratory with qualified technical/scientific staffs to monitor the influent, effluent, ground water, surface water, soil, stack emission and ambient air quality etc. shall be provided.	A separate Environment with qualified supervision of the monitor compliant stipulated. Enclose submitted to Mo 26.04.2023. A full-fledged latechnical/scientific influent, effluent, water, soil, stack equality etc is provided.	personre Plant Frace of sed as EF &CC boratory staffs ground emission	hel und Head is so the condition to monimum water,	er the et up to inditions Already r dated qualified itor the surface
	Adequate funds shall be allocated for undertaking CSR activities (community welfare, environmental development activities apart from	Separate fund is implementation of Protection measures	s being of the s.	allocat Enviro	ed for nmental

	not be less than Rs. 11.0 lacs per year win 10% annual increase in subsequent years. Detai of activities shall also be submitted to SEIA. Chhattisgarh and Regional office. Ministry of environment & Forests, Government of India Bhopal. The funds earmarked for the environment protection measures shall not be diverted for the other purpose and year-wis expenditure should be reported to the SEIAA Chhattisgarh and Regional Office. Ministry of Environment & Forests, Government of India Bhopal.	drainage and sanitation, community halls, drinking water into the villages and skill development of the local communities around of project site villages. Enclosed CSR activities details as Annexure-21. Already submitted to MoEF &CC, Raipur dated 26.04.2023.
3	Project proponent shall also ensure the availability of adequate pastureland for cattle feed after acquisition of land for power plant Project proponent shall also facilities, the respective Gram Panchayats for development of alternative posture land for cattle feed in the villages as per demand of concerning Gram Panchayat.	project.
33	The issuance of the this environmental clearance does not convey any property rights in either real or personal property, or any exclusive privileges, nor does not authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local laws of regulations.	
34	in accordance with the norms of the State Government. Details of R&R plan with compensation package shall be submitted to SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal.	R & R plan is not applicable for this plant, since no person would be displaced.
35	SEIAA, Chhattisgarh reserves the right to amend/cancel any of the conditions and add new conditions and further Stringent the emission/	Agreed to comply
26	effluent limit as and when deemed necessary in the interests of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.	
36	To ensure the generation of employment in the local areas, recruitment shall be done by inviting applications first from the local residents of the Chhattisgarh State. In case of non-availability of suitable candidates for certain post in the first attempt, the project proponent may call the applications as second call, not only from local residents of the Chhattisgarh State but also from other State.	Local employment list enclosed as Annexure-22. Already submitted to MoEF &CC, Raipur dated 26.04.2023.
37	attempted as per priority. Roads transport should be attempted as per priority. Roads transport should be carried out only if the rail transport is totally unavoidable. In case of road transport, transportation should be in covered tucks.	At present we are ensuring to properly cover the trucks for transportation of coal.
38		During construction phase temporary cooking, mobile toilets, mobile STP, safe

	necessary infrastructure and facilities such a	drinking water, medical health care, crutch
	ruel for cooking, mobile toilets, mobile STE	facility provided and after and di
	safe drinking water, medical health care, crute	h construction activities tomporement
	etc. The housing may be in the form o	t are removed
1	temporary structure to be removed after the	e
	completion of the project.	
2	Occupational health surveillance of the workers	S Occupational health surveillance program is
	should be done on a regular basis and records	S Undertaken poriodically and t
	maintained as per the factories Act and records	s maintained as per Factories Act. Enclosed
	shall be maintained properly for the at-least 30-	report as Doc-13. Already submitted to
4	40 years.	I MOHE &CC Doining data 100 04 0000
1	policin shall also colliply with all	Point wice EIA/EMD and the
	the environmental protection measures and safe	complied.
4	guards recommended in the EIA/EMP report.	
	Project proponent shan advertise in at least	Already published.
	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	300
	copies of clearance letter are available with the	
	Chhattisgarh Environment Conservation Board	
	and may also seen at Website of the Ministry of	
	Environment and Forests at www.envfor.nic.in	
	and website of SEIAA, Chhattisgarh at	
	www.seiaacg.org.	
42		Half yearly compliance of CA: N
	implementation of the stipulated conditions,	Half yearly compliance report of Air, Water, Noise, fugitive emission, etc. submitted
	monitoring data along with statistical	regularly to Chhattisgarh Environment
	interpretation and environment safeguards shall	Conservation Board, Raipur, Integrated
	be submitted to the Chhattisgarh Environment	Regional Office, Chhattisgarh Environment
	Conservation Board, Raipur, Regional Office.	Conservation Board, Korba, SEIAA,
	Chhattisgarh Environment Conservation Board	Chhattisgarh and Regional Office, Ministry
	Korba, SEIAA, Chhattisgarh and Regional	of Environment and Forests, Government of
	Office, Ministry of Environment & Forests	India, Raipur.
1000	Government of India, Bhopal.	
43	Regional Office of the Ministry of Environment	We have submitted completed set of
	and Forests at Bhopal will monitor the	Environment Impact Assessment Report and
	implementation of the stipulated conditions. A	Environment Management Plan along with
	complete set of documents including	the additional information to Integrated
	Environment Impact Assessment Report and	Regional Office of Ministry of Environment
	Environment Management Plan along with the	and Forests, at Raipur on time.
	additional information submitted from time to	
	time shall be forwarded to the Regional Office	
4.4	for their use during monitoring.	
44	Full cooperation shall be extended to the	Agreed to comply
	Scientists/ Officers from the SEIAA,	
	Chhattisgarh, Ministry of Environment &	
	Forests, Government of India/ Regional Office,	
	Ministry of Environment & Forests,	
	Government of India, Bhopal/ the CECB/ the	
	Chhattisgarh Environment conservation Board,	
	who would be monitoring the compliance of	*
	environment status.	
45	The environment clearance accorded shall be	Agreed to comply
45		
45	valid for a period of 5 years to start of	
	production operations by the power plant	A
45	production operations by the power plant.	Agreed to comply
	production operations by the power plant	

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47	SEIAA, Chhattisgarh for clearance, a fresl reference should be made to the SEIAA Chhattisgarh to assess the adequacy of the condition (s) imposed and to add additiona environment protection measures required, it any. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests, Government of India/SEIAA, Chhattisgarh.	
47	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.	
48	The project authorities shall inform the Regional office, Ministry of Environment & Forest, Government of India, Bhopal and SEIAA Chhattisgarh about date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Agreed to comply
49	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) act, 1986 and rules there under, Hazardous Wastes (Management, Handling and Trans Boundary Movement) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.	Agreed to comply.
50	Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997	Agreed to comply