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Cement ACL/EMD/F-16/2023/ 2477

Dt.15.05.2023

The Director,

Ministry of Environment, Forest and Climate Change (MoEF&CC), Regional Office, Western Region, "Kendriya Paryavaran Bhavan" Link Road No.3, Ravi Shankar Nagar, Bhopal – 462016 (M.P.)

Sub.: Half Yearly Compliance Status Report of Environmental Clearance of *Thermal Power Plant* Unit of Ambuja Cements Ltd.

REGD. A/D

Ref.: Environmental Clearance Order No. J -13012/20/2004.I (A)-II (T) dated 15th March 2005 & amendment on 03rd June 2009 and 03rd December 2009.

Sir,

We are pleased to submit herewith half yearly compliance status report (i.e. for the period of (October'2022 to March'2023) of Environmental Clearance Order No. 13012/20/2004.I(A)-II (T) granted by MoEF&CC to 90 MW *Thermal Power Plant* Unit of Ambuja Cements Ltd., located at Ambujanagar, Taluka - Kodinar, District - Gir Somnath (Gujarat).

This is for your information and record please.

Thanking you,

Yours Faithfully,

For Ambuja Cements Ltd.

Devendra Singh Chauhan Head-Environment

Encl.: As above.

Copy to:

- The Central Pollution Control Board (CPCB) Parivesh Bhawan, Atmajyoti Ashram Rd, Opp. VMC Ward Office No. 10, Subhanpura, Vadodara – 390023 (Gujarat).
- The Member Secretary, Gujarat Pollution Control Board (GPCB), Paryavaran Bhavan, Sector-10-A, Gandhinagar-382010
- 3) The Regional Officer, Gujarat Pollution Control Board (GPCB), Opp. Saint Anne's Church Station Road, Junagadh.

MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS

Ministry of Environment & Forests Regional Office (W), Bhopal Monitoring Report Part-I

DATA SHEET

01	Project type	١.	UF	Thormal Davies Blant
02	Name of the project	:		Thermal Power Plant
02	Name of the project			Captive Thermal Power Plant (90 MW) for Cement Plant (5.7 MTPA capacity), Taulka Kodinar, Dist Gir Somnath & Bulk Cement Terminal, Village Muldwarka, Dist Gir Somnath
03	Clearance letter(s) / OM no. and date	:		Letter No. J – 13012/20/2004. IA –II (T) dated 15 th March and 18 th March, 2005, amended on 03 rd June 2009 & 3 rd December 2009.
04	Location	:		
	a) District(s)	:		Gir Somnath
	b) State(s)	:		Gujarat
	c) Latitude	:		21° 00' N
	d) Longitude	:		70° 30' E
05	Address for correspondence	;		
	 a) Address of concerned Project Chief Engineer (with pincode & telephone / telex / fax numbers). 			Sh. Devendra Singh Chauhan (Head - Environment) Ambuja Cements Ltd. PO Ambujanagar, Taluka : Kodinar, Pin- 362715 District: Gir Somnath (Gujarat). Tel: 02795-221137/232009/237403 Fax: 02795-220328/232032
	 b) Address of Executive Project Engineer / Manager (with pincode / fax numbers. 	:		Shri Rajesh Vadher (Head -TPP) PO Ambujanagar, Taluka : Kodinar, Pin- 362715 District: Gir Somnath (Gujarat). Tel: 02795-237220/237221 Fax: 02795-220328/232032
06	Salient features			1 48. 02/95 2205201252052
	a) of the project			This is a CPP Fuels are Indigenous Coal, Imported Coal, Petcoke, Lignite in Blend 3 nos. of CFBC Boilers each having capacity of 135 TPH, 87 kg/cm² temperature 515°c Air cooled Condenser (ACC)
	b) of the environmental management	:	a)	Construction Phase
	plans		A A b) A	Proper disposal of construction waste done during construction phase. Minimize noise by using acoustic enclosure for boiler, Low noise generation equipments viz boier and compressor area. Ear muffs & ear plugs are provided to workers engaged at high noise area. visuals for safe working in high noise are displayed at various location. Spraying suppression at regular intervals. Operation Phase An Environment Management Division (EMD) with suitable qualified staff has been set up as per company's policy with adequate monitoring instrument and other infrastructure for implementation of the stipulated environmental safeguards.



			A A A A	Continuous online monitoring systems for measurements of particulate matter, SO ₂ & NO _x have been installed at boiler stack and data are continuously uploading to CPCB website & GPCB website. Ambient Air Quality Monitoring is being regularly carried out at three locations for PM 10, PM 2.5, SO ₂ , NO _x and the monitoring report is being regularly submitted to SPCB & MoEF&CC Bhopal. Occupational Exposure Monitoring – Worker's exposure to coal dust, fly ash & noise is being regularly carried out in plant area. Meteorology - Wind speed, wind direction, temperature, relative humidity & rainfall is being regularly monitored and record maintained on daily basis. Water Quality Monitoring – Waste water quality monitoring of RO plant is ensured. Waste water from RO plant is being stored in closed Water tank and used for cooling process in cement plant after neutralization.
	Proglem of the project		A	cement plant after neutralization. Fly Ash Utilization Plan – Imported coal is being used as fuel in Power plant with low sulphur content. Fly ash generated from TPP is being stored in closed silos and 100% utilization in cement manufacturing in Cement plant in environment friendly manner. Adequate air pollution control equipments like ESP's and Bag filters have been installed for effective air pollution control.
07	Breakup of the project area.			
	a) Submergence area (forest & non-forest)	:		Not applicable
00	b) Others	:		4.8 ha (excluding cement plant).
08	Breakup of the project affected population with enumeration of those losing houses / dwelling unit's only agricultural land only, both dwelling units & agricultural land & landless labourers / artisan.	:		Not applicable As CPP is built on the already land occupied for cement plant .
	a) SC, ST / Adivasis	:		
	b) Others	:		-
09	Financial details	:		
	 a) roject cost as originally planned and subsequent revised estimates and the year of price reference. 	:		Rs. 300 Crore, Year 2005 Rs. 226.90 Crore for Steam Turbine Generator 1 & 2 in 2007 and 106.21 Crore for Steam Turbine Generator 3 in 2010
	 Allocation made for environmental management plans with item wise and year wise breakup 	:		Rs. 16.61 Crore were allocated for Environment Management Plan and it included in Project cost
	 Benefit cost ratio / Internal rate of return and the year of assessment. 	:		Approx. 8% in 2015-16
	 d) Whether (c) includes the cost of environmental management as shown in the above. 	:		Yes
	 e) Actual expenditure incurred on the project so far. 	•		Rs. 336.11 Cr.
	f) Actual expenditure incurred on the environmental management plans so far.	:		Rs. 17.523 Cr.



10	Forest land requirement.	: [
	a) The status of approval for diversion of forest land for non-forestry use	:	Not applicable.
	b) The status of clearing felling	:	No clearing felling
	c) The status of compensatory afforestation, if any	:	Not Applicable
	d) Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far.		Not Applicable
11	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information.		No Clearing felling
12	Status of construction.	:	
	a. Date of commencement (Actual and / or planned)	:	Not applicable.
	b. Date of completion (Actual and / or planned).		60 MW commissioned in November 2007 30 MW commissioned in January 2010
13	Reasons for the delay if the project is yet to start.	:	Not applicable.
14	Dates of site visits	:	
	 The dates on which the project was monitored by the Regional Office on previous occasions, if any. 	:	17.8.2016 (by Dr. B.B. Burman Regional Office, Bhopal),
	b) Date of site visit for this monitoring report	:	17.08.2016
15	Details of correspondence with project authorities for obtaining action plans / information on status of compliance to safeguards other than the routine letters for logistic support for site visits).	*	Half yearly compliance status report is being regularly submitted and last submission was on 18.11.2022 vide letter no. ACL/EMD/F-16/2022/2682



S No.	Condition	Compliance Status								
3 (i)	All the conditions stipulated by Gujarat Pollution Control Board letter No. PC/NOC/CCA-49/11712 dated 15.04.2004 & PC/CCA –JNG-49/32287 dated 11.10.2004 should be strictly implemented.	 Gujarat Pollution Control Board vide their letter no. PC/NOC/CC/49/11712 dated 15.04.2004 stipulated seventeen conditions PC/CCA –JNG-49/32287 dated 11.10.2004 stipulated two conditions 								
3 (ii)	DG set shall be discontinued after commissioning of captive power plant	All this conditions are complied with and strictly implemented. Complied. 28 MW DG sets (3 DG sets of 6 MW & 1 DG set of 10 MW) have beed discontinued. 30 MW DG sets has been retained and shall be utilized for emergency purposes during preventive maintenance 2x30 MW & 1x30 MW captive thermal power plant. MoEF&CC has granted permission for retention of 30 MW DG set x 10 MW). A Copy of the approval letter has already been submitted to MoEF&CC vide our letter no. ACL/EMD/16/2010/55928 dated 25.12.2010 Copy of the same is enclosed as under:								
	OFFICE ORDER Sub: Retention of 30 MW DG Set installed at Comm.	All other conditions carlier prescribed vide this Ministry letters of even no dated 15.03.2005 and 03.05.2009 and 13.012.2009 respectively shall no dated 15.03.2005 and 03.05.2009 and 13.012.2009 respectively shall not detect August 04, 2010. This issues with the approval of the Computent Authority, Yourn toltifully, Yourn toltifully								
3 (iii)	Coal requirement is estimated at 1180 T (Indian/Imported Coal) of 25 – 35% / 15% a content and 0.9% / 0.5% Sulphur content.	Average Coal consumption is 390.43 TPD (Indian/Imported Coal) quality is being complied for Indian/Imported coal Coal Consumtion (October-2022 to March 2023) Month								
3 (iv)	Any change in fuel shall be referred to to committee.	the Complied MoEF&CC has amended EC vide letter dated 03.06.2009 & 03.12.2009 in respect of fuel change. Copy of letter has already been submitted to MoEF vide our letter no. ACL/EMD/F-16/2010/55928 dated 25.12.2010. No change proposed now & if it will be proposed then we will get prior permission from MoEF&CC.								

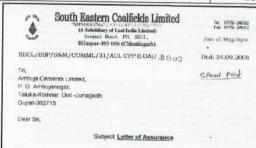


No.3-13012/20 /2004-IA.II(T) Government of India Ministry of Environment & Forests Parvayaran Shawan CGO Complex, Lodi Road, New Delhi- 110003. OFFICE ORDER Sub: 90 MW Captive Power Plant at Ambuja Nagar, in Gujarat M/s Guiarat Ambuja Cements Ltd P.O.Ambujanagar- 362 715 Taluka --Kodinar, Distt. Junagarh The undersigned is directed to refer to your latters dated 18.39,2000 requesting for allowing domestic cost and fignite along with pet pake blonded with imported opal. In this regard it is to inform you that the matter has been examined in the Expert Appraisal Committee (Thermal), it is to inform that this Mini-jocition in permitting lightle and disness coel in addition to peto-like and imiended as fuel subject to strict compliance of the following: Subject: Change in fuel in 3x30 MW CPP at vill. Vadnagar, Distt. Junagarti, Gujarat by M/s Gujarat Ambuja Cements Ltd. — Environmental clearance CFBC Boller shall be installed along with air cooled containaer and ESP having attensis 86.6% efficiency. Solightur contain in blanded fuel shall not exceed 3.5 % and 90% SO, removal shall 100 % Fly Ash utilization shell be advanced from the date of commissioning of the plants of foot appacity. Reference is invited to your letter no. Nil dated 24^h March, 2009 regarding change in fuel in respect of the above mentioned project. All office conditions earlier prescribed vide this Ministry le 15.03.2005 and 03.05.2009 respectively shall remain the same. It is noted that the environmental clearance for the above mentioned power project was accorded vide letter dated 15.3.2005. M/s Gujarat Ambuja Cements Ltd has now proposed for change in fuel from imported/indigenous coal to Pet coke blended with imported coal. This issues with the approval of the Competent Authority The proposal has been considered and in accordance with the recommend of the EAC, the Ministry of Environment & Forests has no objection for change in from imported/incigenous coal to Pet coke blended with imported coal subject to implementation of all the conditions contained in the environment clearance lett even no. deted 15th March, 2005 and additional conditions stipulated as follows: (W. Brankt Sleigh) The Pet coke shall be blended with imported coal and the blended fuel shall be used instead of imported / indigenous coal. etary, Ministry of Power, Shrain Shakti Bhawan, Rafi Merg, New Delbi - 110 Sulphur content in the blended fuel (mixture of Pet coke and Imported coal) should not exceed 3.5 %.Quenching of sulphur through limestone dosing should be at least 90 %. The Sections, Ministry of Power, Stramm Shakh Bhawan, Raft Marg, New Liebs = 110 051 The Secretary, Deptt. Of Forests & Environment, Government of Gujarat, Sachivalingur 07 Floor, Saodi Nagar - 382010. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-r

Copy of coal linkage duly approved by SLC Ministry of coal should be submitted before (v) starting commissioning at the site.

Complied

- First phase (CFBC boilers 1 &2) of TPP commissioned in 2007
- 2nd Phase (CFBC boiler 03) of TPP commissioned in 2010.
- Coal linkage has been approved by SLC, Ministry of Coal and CIL have issued letter of assurance dated 24.09.2008 for 90 MW captive thermal power plant. Copy of LoA has already been submitted to MoEF vide our letter no. ACL/EMD/F-16/2010/55928 dated 25.12.2010.
- Copy of the same is enclosed as below:



Preamble In consideration of the request by Ambuja Cements Limited, P. O. Ambujanagar, Taluka-Kodinar, Dist.-Junagadh, Gujrat-382716 (horenafter referred to its "the Assured") for issuance of Lotter of Assurance (horeinafter referred to as "LOA") requiring 4,94,000 torries per annun (tips) of Grade cool for its 90 MW Captive Power Plant located at P. O. Ambujanagar, Taluka-Kodinar, Dist.-Junagadh, Gujrat-382715 (hereinafter referred to as "CPP"), from about October 2008, as requested by the Assured, SECL (horeinafter referred to as "the Assured") hereby provisionally assured that it would endeavour to supply coal to the Assured subject to the following forms and conditions:

Cuantity & Grade of coal Subject to the Assured fulfilling its obligations in accordance with Clause 2 to the satisfaction of the Assurer within the period of validity of this LOA and the signing of the Fuel Supply Agreement (FSA) within three (3) months thereafter, the Assurer shall endeavour to supply, sap or the normative requirement of the CFP, 4,94,900 tennes per annum (tps) of F* Grade(s) coal to the Assured, which shall be subject to review and assessment by the Assurer of the actual coal requirement of the Assured as well as the incremental variability of coal from the mines of the Assurer and/or of imported coal. It is expressly clarified that in the mines of the Assurer and/or of imported coal. It is expressly clarified that in the

event that the incremental coal supplies available with the Assurer (after mee out the commitments already made) is less than the incremental coal demand, out the commitments already made) is less than the incremental coal demand, such incremental availability shall be destributed on pre-rate basis and the balance quarity of coal requirement shall be mot transph imported coal available with the delice, which to shall be destributed on pre-rate basis."

"Parameters in case of imported coal shall be as specified by Citi/Assumer."

1.2 Price of cost

The price of coal assured herein shall be as per the notified price of CIL from time to time. Notwithstanding, in case the quantity of normative requirement, as-stated in Clause 1,1 above, necessitates opening of a dedicated mine, then coal shell be included in above, inclusiones opining or a disclared mine, men coal shell be priced at the higher of the cost plus reasonable return or such notified price. The quantity of imported coal that may be supplied to the Assured, as mentioned in Clause 1.1, shell be charged at the landed cost plus service charge. Such service charge shall be notified by the Assurer from time to time. The Assured shall be liable to pay all applicable taxes and statutory lovies.

1.3 Change in law

in the event of an enactment, promulgation, amendment or repeal of any statute. policy, decree, notice, rule or direction by any government instrumentality that would have an impact on the coal supply terms assured hereof, the Assurer shall be free to amend or repeal this LOA without any liabilities or damages, whatsoever, payable to the Assured.

Force-Majeure affecting the Assured

In the event that development of the coal block identified by the Assurer for the purpose of meeting the normalive requirement stated in Clause 1.1 is delayed or terminated for reasons including de-allocation of such block by the Government and inordinate delays faced in acquiring land or receiving environmental/forest clearances. Or that imports of coal required for the purpose of meeting the portion of normative requirement stated in Clause 1.1 is reasonably withheld owing to such factors as global shortage or a Force-Majoure event effecting the source(s) of imported coal or logistical bottlenecks faced in transportation and unloading, which are not within the coatrol of and not caused by the negligence or fault of the Assumer that the Assumer that the Assumer the Assumer the Assumer than the Assumer that the Assumer the Assumer the Assumer that the Assumer the Assumer the Assumer than the Assumer that the Assumer than th or fault of the Assurer, the Assurer shall be free to amend or repeal this LOA without incurring any liability whatsoever, including the liability for payment of damages to the Assured.



			1 ar a (1) dated 1) difficilitation for March, 2005)						
3 (vi)	No discharge of wast outside the plant boun the waste water should the plant. Ground water will not be	Il not exceed 1460 m3/day. e water should be done dary / natural drain and all be recycled and reused in pe extracted/purchased for	Average Industrial Water consumption is 320.34 m3/da						
(*)	recycled water and / or reservoirs shall be used.	captive power plant. Only stored water in Mine pit	 No ground water is being extracted or purchased for power plant. Harvested rain water stored in our mined out pits/reservoirs are being used for captive power plant operation. 						
3 (viii)	A regular auditing of grouse by an independent place.	ound water availability and agency should be put in	 Complied. The ground water is not being used for TPP. Only harvested rain water is being used in operation of TPP. CSR arm i.e. Ambuja Cement Foundation of Ambuja Cements Limited has constructed various rain water harvesting structures around the area in association with Ministry of Water Resources (Govt. of Gujarat). As a result of this, Salinity of the area is reduced and ground water level is augmented. However preliminary scientific Study on ground water potential in 1 km radius zone of captive power plant was carried out in Aug-2004 jointly by Ground Water & Mineral Investigation Consultancy Centre (P) Ltd. Jaipur, Rajastham Renewed audit agency M/S DNV is engaged for auditing of groundwater availability & use year 2019 report reveal that we are 24.11 times water positive. 						
	DNV-GL		that we are 21.1 times water positive.						
Stocheckten TWY G. Salmin management of the TWY G. Salmin management of the TWY G. Salmin on the V. G. Salmin find the TWY G. Salmin TWY G. Salmin the TWY G. Salmin TWY	Infections on Water Infection Storics (Wayering) National Positions) for the sites. In Infection and water his overtron productions of the Common at Art buyerings of Columnia (Appendixed) and the Composite Office on Manufact, representing devices excellently of sensoring a minimum of 2006, of the art flowering water for this for 20 maps; why appear with the Composite The conflication was control out or Principles 2005— antimised students from a fact the collection of any of this world Columnia and the Columnia and Colu	Conducted continues in our to the feeding transported patter housed as independent on the Conducted of the other forms of the Conducted of the	Interior and provided of the p						
PRODUCES	Fags 1 of 6	The overage	Desired Basiness						



3 (ix)	for finaliz	/ater zatioi gy wi		The company has constructed various rain wat							
		Ambuja Details for programme wise Programme	e expen	nt Founda diture fo	*Funds received through	** Funds from other Donors /	***People's Contribution	****Direct Funding to Communities	(Rs. In lakhs) Total Exp.		
		1	GUJARAT - Kodinar Water Resource Mangement & Drinking Water Projects a.Water Resource Devlopment		11.05	0.00	Agencies			11.05	
		2	B .Drinking Water Programme Agriculture Development(Drip Irrigation, Farm Forestry & Afforesation)	&	2.75 37.03			3.30 191.35	233.95	11.05 6.05 462.33	
		3 4 5 6	BCI Krishi Vigyan Kendra (KVK) - Agriculture Health & Sanitation Education Programme		28.33 1.87 12.25 7.75	1.54 133.47	221.84	297.00 8.27	396.06	944.77 135.34 20.52	
		7 8 9	Women / Youth Development Skill and Enterprunership Development Programme Integrated Community Development Programme		21.15 38.78 81.21	38.83		26.74		7.75 21.15 104.35 81.21	
		10	Co-ordination & Administration Expenses Capital Expenditure TOTAL							0.00	
3 (x) 3 (xi)	with continue velocity of High effice having effi	94 m height each shall be provided sonline monitoring system with exit sm/sec should be maintained. 7 Electrostatic Precipitator (ESP) by of 99.8% should be installed to emission at 100 mg/Nm3									



					Stack (Octo	Monito ber 202	ring Re 2 - Marc	sh 2023)					
					Dalla		Stack at	tached to						
		Month	1	PM	SOX	NOx	l la	D00		ler III				
			m	g/Nm³	mg/Nm ³	mg/Nm ³	Hg	PM	SOx	NOX	Hg	· ·		
		Oct-22		5.90	342.60	139.50	mg/Nm ³ 0.0053	mg/Nm³	mg/Nm³		mg/Nr			
		Nov-22	2	7.60	355.20	140.20	0.0049	26.7 24.2	334.60 331.20	132.90	0.003			
		Dec-22		8.50	340.20	142.30	0.0044	25.6	355.40	133.20 139.30	0.003			
		Jan-23		6.40	559.80	238.50	0.0049	24.8	508.70	198.50	0.003			
		Feb-23 Mar-23		9.40	541.90	245.70	0.0053	24.4	524.20	207.40	0.004			
		issible Lir		6.30	554.30	251.30	0.0057	24.3	535.30	209.10	0.004			
3(xii)			The state of the s		600.0	450.0	0.03	50.0	600.0	450.0	0.03			
3(۸11)	station in	nwind AAQA the SE sect	or at a d	i is 5 Km istance (to the East of 1 Km able		A Complied.							
	capture	the impact	of the			ad We have already setup AAQIM stations in 5 km to the E a								
	stacks sh	ould be set ι	up.			1 Km in SE direction as suggested. Ambient air quality monitoring reports for the period from								
						A1	nbient air c	quality mon	itoring rep	orts for the	period f	fro		
		1	Ambien	Air Qu	ality Moni	toring Pes	ults (Octob	September	2022 are e	nclosed as	under:			
					Averag	e Ambient Air	Quality Monito	oring Results /	ug/m3)					
	Month			de TPP			Nava	para	Mg/III3)	D 1				
		PM2.5	PM10	SO	2 NOx	PM2.5	PM10	SO2	NOx PIV	Deval		***		
	Oct-22	26.99	38.28	12.5			35.78	13.99		12.5 PM10		NO.		
	Nov-22	25.71	37.19	15.0		24.73	36.54	13.95		37.50		15.3		
	Dec-22	26.39	37.70	14.1			35.29	15.78		30 37.40		15.2		
	Jan-23	24.79	36.34	13.7		26.89	38.10	14.31		.80 38.30		14.4		
	Feb-23	25.88	37.00	14.6	0 15.69	26.36	38.83	15.57		.90 34.40 .50 39.20		14.1		
	Mar-23	25.20	37.14	14.8	7 15.87	26.80	37.91	15.40				13.6		
	Average	25.8	37.3	14.2		26.0	37.1	14.8		.20 38.90 7.1 37.6		13.7		
3 (xiii)	Space plant	for FGD in	stallatio	n shall b	e kept in t									
3 (xiv)	ash ar in cen	Ash generation will be 630 TPD. 100% of the fly ash and bottom ash generated shall be utilized in cement manufacturing. Fly ash will be stored in silos only and there shall be no open storage pond.					Total average Ash generation including bottom ash							
(vv)	Possile					 Total quantity of fly Ash generation at 3*30 TPP for period from October 2022 to March 2023 as under: Fly Ash Generation (October-2022 to March 2023) Month Oct-22 Nov-22 Dec-22 Jan-23 Feb-23 Ma Fly Ash(MT) 2715 3286 4187 5733 3307 20 								
(xv)	heavy dyke chango of con	ar monitorin metals shou and the pr e in water q taminants fr	uld be ur oject ar uality, if om ash o	idertake ea to a any, du disposal	n around a ascertain the e to leachinarea.	is being stored at fly ash silo.								
(xvi)	Noise regula undert genera	level should r maintena aken. For p ator and otl be provided	l be limi nce of eople w ner high	ted to 7 equipm orking in	5 dB (A) ar ent will be the area	ore of Moore	nitoring of d the nois intained we der: ople workin	se level a ell below 7 ng in the a e provided	round the 5 dB (A).	s done on remal powereport are derator and sary PPE's li	er plant enclosed other h	t d a nie		







3 (xvii)

Greenbelt of 20-25 m along the plant boundary should be developed covering an area of 0.5 ha.

Complied.

 Greenbelt of 20-25 m has been established around the plant boundary wherever open space is available. However the company has done plantation where space is available inside the plant area. The company has already developed 2.10 hectares of greenbelt, more than the requirement.

Photographs of the same are enclosed as under:









3 (xviii)

Regular monitoring of the air quality should be carried out in and around the power plant and records should be maintained. Periodic six monthly reports should be submitted to this Ministry.

Complied.

- Ambient air quality is being regularly monitored at identified AAQM stations and report is being regularly submitted to GPCB on monthly basis and to MoEF on six monthly basis.
- Ambient air quality monitoring report for the period from October-2022 to March-2023 enclosed as under:



Month	JUNE COLUMN	mbient Air C			s (µg/m3)							
	Inside TPP PM2.5 PM10 SO2 NOx				7110 5		para		Devalpara			
Oct-22	26.99				PM2.5	PM10	SO2	NOx	PM2.5	PM10	SO2	NOx
Nov-22	25.71	38.28	12.56	15.18	25.16	35.78	13.99	13.90	26.00	37.50	15.20	15.30
Dec-22		37.19	15.08	15.51	24.73	36.54	13.95	13.75	28.30	37.40	13.50	15.20
	26.39	37.70	14.12	16.00	26.16	35.29	15.78	14.00	26.80	38.30	13.90	14.40
Jan-23	24.79	36.34	13.74	14.21	26.89	38.10	14.31	14.38	26.90	34.40	The state of the s	
Feb-23	25.88	37.00	14.60	15.69	26.36	38.83	15.57	16.76			12.50	14.10
Mar-23	25.20	37.14	14.87	15.87	26.80	37.91	15.40		27.50	39.20	12.60	13.60
Average	25.8	37.3	14.2	15.4	26.0			16.36	27.20	38.90	12.90	13.70
			1712	13.4	20.0	37.1	14.8	14.9	27.1	37.6	13.4	14.4

3 (xix)

For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant should be ensured.

Complied.

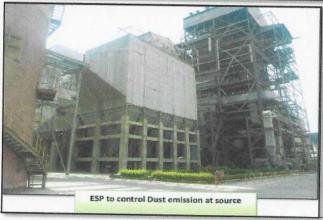
- Various measures are being taken to control fugitive emission like construction of RCC roads inside plant premises, closed conveying system for fly-ash handling. Transport roads and internal plant roads are being regularly cleaned using mechanized vacuum sweeping machines.
- Actions are being implemented in a time bound manner for controlling the fugitive dust emissions from all the sources.
 Regular monitoring of fugitive dust emission is carried out at the prescribed intervals.
- Fugitive Emission monitoring report (Average data) for the period October 2022 to March 2023 enclosed as under:

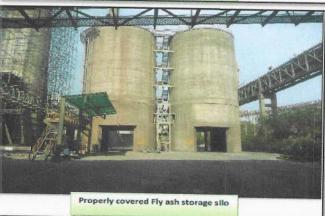
Fugitive	Emission Monitoring Res	ults October 2022 to	March 2023
Fly ash silo - TPP	Average Fugitive Emission Mc Bottom Ash Collection Area	Fly Ash Loading Area	
SPM (µg/m3)	SPM (µg/m3)	SPM (µg/m3)	SPM (µg/m3)
1367	1452	1625	1246

 Photographs of fugitive dust control measures are enclosed as under.

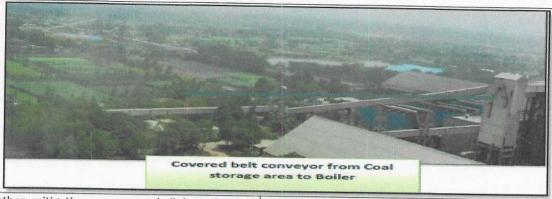












3 (xx) All other mitigative measures shall be taken as enumerated in Chapter 5 of the REIA report.

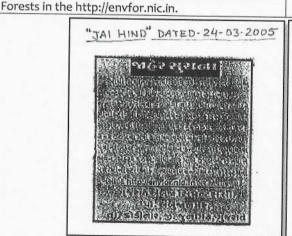
Complied.

- The main mitigation measures suggested in REIA chapter
 -5 are as follows.
 - Recycle and reuse of treated effluent for green belt development,
 - No adverse impact on flora -fauna
 - Land use pattern of area to be remain unchanged.
 - Upliftment of socio economic condition of surrounding area
 - Solid waste management by proper storage facilities.
- All of the above recommendations are being followed and detail Compliance status has already been submitted to MoEF&CC vide our letter no. ACL/EMD/F-16/2010/55928 dated 25.12.2010.

The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board / Committee and may also be seen at Website of Ministry of Environment and

Complied

- Advertisement has been published in local newspapers "Jai Hind" and "Indian Express" dated 24.03.2005. Copy of advertisement has already been submitted to MoEF&CC vide our letter no. ACL/EMD/F-16/2010/55928 dated 25.12.2010.
- Copy of the same is enclosed as under:



"INDIAN EXPRESS" DATED 24-03-05

PUBLIC NOTICE

This is to Initium all doncemed that Ministry of Endocrement & Foreste, Gost of India, New Delfs has accorded vide their learner desed tish March, 2005 and dance feet March, 2005, environment is beginned to 90 MeV Thermal Power Plant of Gujeral Anticya Comments Ltd. at Village Vadorgar, Taluka Kodiner, Dist. Junagedh, Gujeral, Accoy of the said Clearance letters are available with the Gujeral Pollution Control. Board, Praysavaran Shawan, Sector 10-A Candidinager and may also be seen fait the web also of the Ministry of Environment & Foreits at http://environment.com/ministry of Environment.com/ministry of Envir

A separate environmental monitoring cell with suitable qualified staff should be set up for

Complied.

A well established Environmental Management Dept. (EMD)



	implementation of the stipulated environmental safeguards.	having qualified staff to carry out environment compliance. Head of environmental management cell directly report to the Unit Head of the organization in order to oversee effective implementation of environment protection measures and to monitor the routine environmental performance within the premises. EMD organization chart is enclosed as under: Organization Chart Unit Head Head Environment Vacant
3 (xxiii)	Half yearly report on the status of implementation of the conditions stipulated and environmental safeguards should be submitted to this Ministry / Regional office / CPCB / SPCB.	 Complied. Half yearly compliance status report along with the monitored data are regularly submitted to MoEF&CC /CPCB/SPCB in hard and soft copies, our latest submission was vide Letter No . ACL/EMD/F-16/2022/2682 on dtd 18.11.2022.
3 (xxiv)	Regional office of the Ministry of Environment and Forests located at Bhopal will monitor the implementation of the stipulated conditions. Complete set of Environmental Impact Assessment Report and Management Plan should be forwarded to the Regional Office for their use during monitoring.	Complied. • EIA report and management plan have been submitted vide our letter no. GACL/EMD/44/2005/30623 dated 09/04/2005.
3 (xxv)	Separate funds should be allocated for implementation of environmental protection measures along with item wise break-up. These cost should be included as part of the project cost. The funds remarked for the environment protection measures should not be diverted for other purposes and year – wise expenditure should be reported to the Ministry.	 Capital investment for environment monitoring Rs 57.08 Lakhs. Recurring expenditure for period of from October 2022 to March 2023 is 45.49 Lakhs. Details of capital and recurring expenditure for environmental protection measures are enclosed as under:



		Expenditure incurred in	Environment Management F	Plan -TTP					
	A. C	apital Invesstment for Env							
	S.No	Particulars	9	Cost (In Lacs)					
	1	Monitoring Equipments		37.08					
	2	Environment Laborator	у	10.00					
	3	Others (Monitoring Van	, DG Sets etc.)	10.00					
			Total (In Lacs INR)	57.08					
	B. Rec	B. Recurring Expenditure for the period of October'2022 to I							
	S.No	Cost (In Lacs)							
	1	1 Green belt development & Dust suppression 2 Manpower Cost *							
	2		1.02						
	3	House Keeping		13.15 9.49					
	4	Maintenance of Pollutio	n Control Equipments	15.97					
	5								
	6	Environment Awareness	; *	4.43					
			Total (In Lacs INR)	1.43					
	*	Expenditures are Common		45.49					
3		should be extended to the	n for All the Plants & Mines.						
	would be m environmental sti	onitoring the compliance of pulations and measures.	the visit of officer from Min Forest, CPCB as well as GPCB. P Director (Regional Office, Bho	roject was monitored b					
1	environmental sti	pulations and measures. serves the right to revoke the	Forest, CPCB as well as GPCB. P	roject was monitored b					
	The ministry re	serves the right to revoke the	Forest, CPCB as well as GPCB. P Director (Regional Office, Bho 13.10.10 & 17.08.2016	roject was monitored b					
	The ministry re clearance if implemented to the original of the control of the co	serves the right to revoke the conditions stipulated are not ne satisfaction of the ministry.	Forest, CPCB as well as GPCB. P Director (Regional Office, Bho 13.10.10 & 17.08.2016	roject was monitored b					
	The ministry re clearance if implemented to the total three environments for a period of 5	serves the right to revoke the conditions stipulated are not ne satisfaction of the ministry. al clearance accorded shall be valid years for construction/operation of	Forest, CPCB as well as GPCB. P Director (Regional Office, Bho 13.10.10 & 17.08.2016 Agreed. Noted.	Project was monitored bopal) during 12.10.10 t					
	The ministry re clearance if implemented to the The environments for a period of 5 the power plant.	serves the right to revoke the conditions stipulated are not ne satisfaction of the ministry. al clearance accorded shall be valid years for construction/operation of In case, if the project authorities	Forest, CPCB as well as GPCB. P Director (Regional Office, Bho 13.10.10 & 17.08.2016 Agreed. Noted. The environment clearance w and first phase of project was	Project was monitored bopal) during 12.10.10 to					
	The ministry re clearance if complemented to the implemented of 5 the power plant. fails to do so we environmental	serves the right to revoke the conditions stipulated are not ne satisfaction of the ministry. al clearance accorded shall be valid years for construction/operation of	Forest, CPCB as well as GPCB. P Director (Regional Office, Bho 13.10.10 & 17.08.2016 Agreed. Noted. The environment clearance w and first phase of project was and second phase of project was	Project was monitored bopal) during 12.10.10 to					
	The ministry re clearance if complemented to the implemented to the complement of 5 the power plant. It is to do so we environmental automatically.	serves the right to revoke the conditions stipulated are not ne satisfaction of the ministry. al clearance accorded shall be valid years for construction/operation of In case ,if the project authorities rithin this stipulated period , this clearance shall stand lapsed	Forest, CPCB as well as GPCB. P Director (Regional Office, Bho 13.10.10 & 17.08.2016 Agreed. Noted. The environment clearance w and first phase of project was and second phase of project was Hence condition is complied.	Project was monitored bopal) during 12.10.10 to					
•	The ministry re clearance if complemented to the implemented to the complement of 5 the power plant. It is to do so we environmental automatically.	serves the right to revoke the conditions stipulated are not ne satisfaction of the ministry. al clearance accorded shall be valid years for construction/operation of In case ,if the project authorities rithin this stipulated period , this clearance shall stand lapsed eviation or alteration in the project	Forest, CPCB as well as GPCB. P Director (Regional Office, Bho 13.10.10 & 17.08.2016 Agreed. Noted. The environment clearance w and first phase of project was and second phase of project was and second phase of project. Hence condition is complied. Complied.	Project was monitored bopal) during 12.10.10 to the project was monitored by the project was issued on Nov-200 as commissioned in 2010 as commissioned as commissioned in 2010 as commissioned in 2010 as commissioned as commissioned in 2010 as commissioned as comm					
	The ministry re clearance if complemented to the implemented to the control of 5 the power plant. It is to do so we environmental automatically. In case of any deproposed from the clearance, a fresh	serves the right to revoke the conditions stipulated are not the satisfaction of the ministry. The construction of the ministry of the project authorities within this stipulated period, this clearance shall stand lapsed eviation or alteration in the project tose submitted to this Ministry for reference should be made to the	Forest, CPCB as well as GPCB. P Director (Regional Office, Bho 13.10.10 & 17.08.2016 Agreed. Noted. The environment clearance w and first phase of project was and second phase of project was and second phase of project was Complied. The company has applied for	vas issued on Nov-200 s commissioned in 2010 type of fuel change t					
	The ministry re clearance if of implemented to the control of 5 the power plant. fails to do so we environmental automatically. In case of any deproposed from the clearance, a fresh Ministry to assess	serves the right to revoke the conditions stipulated are not the satisfaction of the ministry. The construction of the satisfaction of the ministry. The construction of the satisfaction of the project authorities within this stipulated period, this clearance shall stand lapsed eviation or alteration in the project mose submitted to this Ministry for reference should be made to the the adequacy of the condition (s)	Forest, CPCB as well as GPCB. P Director (Regional Office, Bho 13.10.10 & 17.08.2016 Agreed. Noted. The environment clearance w and first phase of project was and second phase of project was and second phase of project was The complied. Complied. The company has applied for MOEF&CC for amendment of	vas issued on Nov-200 s commissioned in 2010 type of fuel change t EC condition and sam					
	The ministry re clearance if implemented to the control of 5 the power plant. fails to do so we environmental automatically. In case of any deproposed from the clearance, a fresh Ministry to assess imposed and to	serves the right to revoke the conditions stipulated are not ne satisfaction of the ministry. In clearance accorded shall be valid years for construction/operation of In case ,if the project authorities within this stipulated period , this clearance shall stand lapsed eviation or alteration in the project cose submitted to this Ministry for reference should be made to the the adequacy of the condition (s) add additional environmental	Forest, CPCB as well as GPCB. P Director (Regional Office, Bho 13.10.10 & 17.08.2016 Agreed. Noted. The environment clearance w and first phase of project was and second phase of project	vas issued on Nov-200 s commissioned in 2010 type of fuel change t EC condition and sam					
	The ministry re clearance if implemented to the control of 5 the power plant. fails to do so we environmental automatically. In case of any deproposed from the clearance, a fresh Ministry to assess imposed and to protection measure.	serves the right to revoke the conditions stipulated are not the satisfaction of the ministry. In clearance accorded shall be valid years for construction/operation of In case, if the project authorities within this stipulated period, this clearance shall stand lapsed eviation or alteration in the project authorities within the stipulated period, this clearance shall stand lapsed eviation or alteration in the project authorities within the project authorities within the stipulated period, this clearance should be made to the the adequacy of the condition (s) or add additional environmental are required, if any.	Forest, CPCB as well as GPCB. P Director (Regional Office, Bho 13.10.10 & 17.08.2016 Agreed. Noted. The environment clearance w and first phase of project was and second phase of project was and second phase of project was and second phase of project was The complied. Complied. The company has applied for MOEF&CC for amendment of has been amended as per 1 03.06.2009 & 03.12.2009.	vas issued on Nov-200 s commissioned in 2010 type of fuel change to EC condition and sam					
1	The ministry re clearance if implemented to the control of 5 the power plant. fails to do so we environmental automatically. In case of any deproposed from the clearance, a fresh Ministry to assess imposed and to protection measure. The above stipulation others under the pollution Act 198-1986 and rules (Management & amendments, the	serves the right to revoke the conditions stipulated are not ne satisfaction of the ministry. In clearance accorded shall be valid years for construction/operation of In case ,if the project authorities within this stipulated period , this clearance shall stand lapsed eviation or alteration in the project cose submitted to this Ministry for reference should be made to the the adequacy of the condition (s) add additional environmental	Forest, CPCB as well as GPCB. P Director (Regional Office, Bho 13.10.10 & 17.08.2016 Agreed. Noted. The environment clearance w and first phase of project was and second phase of project	respect was monitored to opal) during 12.10.10 to opal) during 12.10.10 to opal) during 12.10.10 to opal) during 12.10.10 to opal is seen in 2010 to opal in 2					



	ndment]														
(i)	The Pet blended coal.	coke shall to fuel shall b	pe blended be used ins	with impo tead of im	orted coal ar ported/indig	nd the enous	• As per		mendme	nt in CP	P EC da	ited 03.	12.200		
							 As per further amendment in CPP EC dated 03.12.200 we are blending lignite and domestic coal in addition to petcoke and imported coal. 								
(ii)	Sulphur	content in th	ne blended	fuel (mixtu	re of Pet col	ke and	d Complied								
	sulphur	d coal) sho through lime	ould not e estone dosii	exceed 3.5	%. Quenchi e at least 90	ng of	 Blending of fuels is done in a manner to restrict Sulphur percentage below 3.5%. Limestone dosing is being done along with coal, in order to limit Sulphur dioxide emission. 								
iii)	All the v	waste gener	ated from	sulphur qu	uenching sh	all be	Complied.	2 (111133101		7					
	used in a	cement plai	nt.				 The fly ash and bottom ash generated from sulphus quenching is being used in cement plant. 								
v)	NOx, Hg, zone and levels are control location monitorir	monitoring of SPM and R records sho efound to emeasures so of the mong shall be so the data sh	SPM shall I build be main exceed the shall be ponitoring s submitted t	oe carried on tained. If a prescribed provided in tations an to the region	out in the in it any stage limits, nece nmediately. id frequence onal office o	npact these ssary The y of	 All the present multisp at Amb Complied. Ambier identifit submitton six report 	on arrang stract work ese facilitity work ecialty ho ujanagar. Int air qualed AAQM ted to SPO monthly I for the peed as under the peed as	es are and	ing the calso averthermands beds eing regard reporthly be beds	onstructions on the construction of the constr	tion ph for w er pla blished monitorieing red to Mo	orkme ant. in 201 ored a egularl oEF&Co		
	company						CITCIOSC	ed as unde							
			Ambient .	Air Qualit	y Monitor	ing Re	sults (Octo	ber 2022	March 2	2023)					
					Average A	mbient /	ir Quality Moni	toring Resul	ts (µg/m3)						
	Month		Insid	e TPP				apara			Deva	alpara			
		PM2.5	PM10	SO2	NOx	PM2.	PM10	SO2	NOx	PM2.5	PM10	SO2	NOx		
	Oct-22	26.99	38.28	12.56	15.18	25.16	35.78	13.99	13.90	26.00	37.50	15.20	15.30		
	Nov-22	25.71	37.19	15.08	15.51	24.73		13.95	13.75	28.30	37.40	13.50	15.20		
	Dec-22	26.39	37.70	14.12	16.00	26.16		15.78	14.00	26.80	38.30	13.90	14.40		
	Jan-23	24.79	36.34	13.74	14.21	26.89		14.31	14.38	26.90	34.40	12.50	14.10		
	Feb-23	25.88	37.00	14.60	15.69	26.36	-	15.57	16.76	27.50	39.20	12.60			
	Ar-23 25.00 37.00 14.00 15.09						-	15.01	10.70	27.00	00.20	12.00	13.60		

Mar-23

Average

(vi)

25.20

25.8

37.14

37.3

Provision shall be made for the housing of construction labor

within the site with all necessary infrastructure and facilities

14.87

14.2

15.87

15.4

26.80

26.0



37.91

37.1

Complied.

15.40

14.8

16.36

14.9

27.20

27.1

38.90

37.6

12.90

13.4

13.70

14.4

	such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	. Tojece has already completed and plant is under
(vii)	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutants levels namely: SPM, RSPM, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	 Complied. Compliance status reports of the stipulated conditions, including results of monitoring data are being regularly uploaded on company website. Half yearly compliance status report including results of monitored data are being regularly submitted to MoEF&CC/CPCB/SPCB, our last submission was on dated 26.05.2022 vide letter no.
(viii)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	
(ix)	Project proponent will up-load the compliance status on their website and up-date the same from time to time at least on six monthly basis. Criteria pollutants level (Stack & ambient level of NOx) will be displayed at the main gate of the power plant.	Six monthly compliance status report and pollutants level (Stack & ambient) is being uploaded on website: www.ambujacement.com and also being displayed at main gate of the power plant.
Co	ompliance Status of Environmental Clearance No. J-13012/20/2 Plant [EC 2nd am	2004- IA. II (T) dated 03.12.2009 issued to Thermal Power
2	Ministry has no objection in permitting lignite and domestic coal in addition to petcoke and imported coal blended as fuel subject to strict compliance of the following.	Agreed
(i)	CFBC Boiler shall be installed along with air cooled condenser and ESP having at least 99.8% efficiency.	CFBC Boilers are installed along with air cooled condensers and highly efficient ESP's to control emission.
(ii)	Sulphur content in blending fuel shall not exceed 3.5% and 90% SO2 removal shall be achieved by lime dosing or any other suitable mechanism.	 Complied Blending of fuels is done in a manner to restrict % Sulphur below 3.5% in blended fuel. Limestone dosing is done along with coal, in order to limit sulphur dioxide emission.
(iii)	100% Fly Ash utilization shall be achieved from the date of commissioning of the plants of total capacity.	All the generated fly ash (including bottom ash) is being stored in Silo and being fully (100%) utilized in cement manufacturing at our own cement plant.
3	All other conditions earlier prescribed vide this Ministry letters of even no. dated 15.03.2005 and 03.05.2009 respectively shall remain the same.	Complied as all above condition.

