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REGD. A/D

ACL/EMD/F-16/2020/2226

03.11.2020

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.

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 (April'2020 to September'2020) 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).

Thanking you,

Yours Faithfully,

For Ambuja Cements Ltd.

Dingh

Anand Prakash
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.

Regd. Office:

PO : Ambujanagar - 362 715, Tal : Kodinar, Dist. : Gir Somnath (Gujarat) Phone : (02795) 221137, 232009,

Fax: (02795) 220328

Ambuja Cements Limited (Unit : Ambujanagar)

CIN No.: L26942GJ1981PLC004717 www.ambujacement.com Corporate Office : Elegant Business Park, MIDC Cross Road 'B'

Off Andheri - Kurla Road, Andheri (E) Mumbai - 400 059. Phone: (022) 4066700

MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS

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

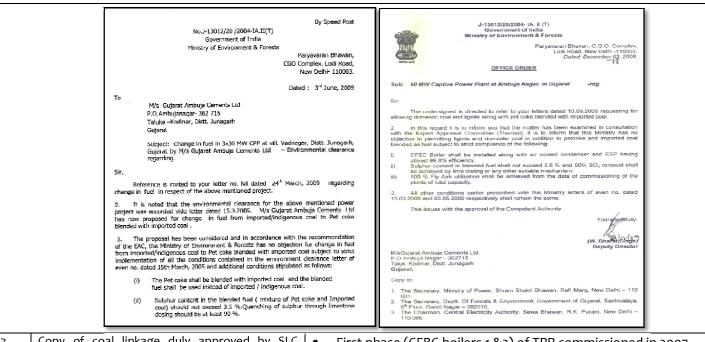
DATA SHEET

			DATA SHEET
01	Project type	:	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
	Address for correspondence	:	-
	a) Address of concerned Project Chief Engineer (with pincode & telephone / telex / fax numbers). b) Address of Executive Project Engineer / Manager (with pincode / fax numbers.	:	Sh. Anupam Agrawal Unit Head Ambuja Cements Ltd. PO Ambujanagar, Taluka: Kodinar, Pin- 362715 District: Gir Somnath (Gujarat). Tel: 02795-221137/ 232009/237403 Fax: 02795-220328/232032 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		
	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 plans	:	 a) Construction Phase ➢ Proper disposal of construction waste done during constriction 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. b) 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.
			>	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
			ĺ	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.
			>	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-	:		Not applicable
	forest)			
	b) Others	:		4.8 ha (excluding cement plant).
08	Breakup of the project affected	:		Not applicable
	population with enumeration of those			As CPP is built on the already land occupied for cement
	losing houses / dwelling unit's only			plant .
	agricultural land only, both dwelling units			
	& agricultural land & landless labourers /			
	artisan.			
	a) SC, ST / Adivasis	:		
	b) Others	:		
09	Financial details	:		
	a) roject cost as originally planned and	:		Rs. 300 Crore, Year 2005
	subsequent revised estimates and the			Rs. 226.90 Crore for Steam Turbine Generator 1 & 2 in 2007
	year of price reference.			and 106.21 Crore for Steam Turbine Generator 3 in 2010
	b) Allocation made for environmental	:		Rs. 14.49 Crore were allocated for Environment Management
	management plans with item wise and			Plan and it included in Project cost
	year wise breakup			
	,			
	c) Benefit cost ratio / Internal rate of return	:		Approx. 8% in 2015-16
	c) Benefit cost ratio / Internal rate of return and the year of assessment.	:		Approx. 8% in 2015-16
	c) Benefit cost ratio / Internal rate of return			Approx. 8% in 2015-16 Yes

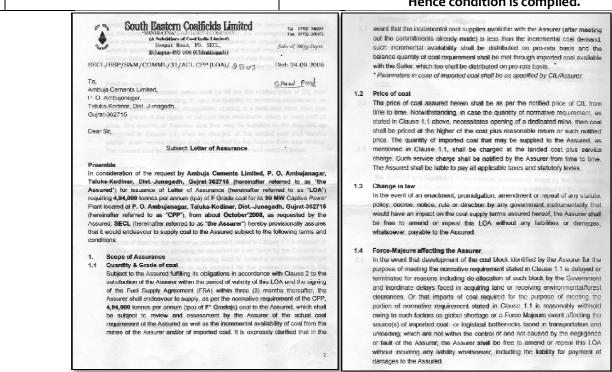
	•		·
	the above.		
	e) Actual expenditure incurred on the	:	Rs. 336.11 Cr.
	project so far.		
	f) Actual expenditure incurred on the	:	Rs. 14.49 Cr.
	environmental management plans so far.		
10	Forest land requirement.	:	
	a) The status of approval for diversion of	:	Not applicable.
	forest land for non-forestry use		
	b) The status of clearing felling	:	No clearing felling
	c) The status of compensatory	:	Not Applicable
	afforestation, if any		
	d) Comments on the viability &	:	Not Applicable
	sustainability of compensatory		
	afforestation programme in the light of		
	actual field experience so far.		
11	The status of clear felling in non-forest	:	No Clearing felling
	areas (such as submergence area of		
	reservoir, approach roads), if any with		
	quantitative information.		
12	Status of construction.	:	
	a. Date of commencement (Actual and / or	:	Not applicable.
	planned)		
	b. Date of completion (Actual and / or	:	60 MW commissioned in November 2007
	planned).		30 MW commissioned in January 2010
13	Reasons for the delay if the project is yet	:	Not applicable.
	to start.		
14	Dates of site visits	:	
	a) The dates on which the project was	:	17.8.2016 (by Dr. B.B. Burman Regional Office, Bhopal),
	monitored by the Regional Office on		
	previous occasions, if any.		
	b) Date of site visit for this monitoring	:	17.08.2016
	report		
15	Details of correspondence with project	:	Half yearly compliance status report is being regularly
	authorities for obtaining action plans /		submitted and last submission was on 15.05.2020 vide
	information on status of compliance to		letter no. ACL/EMD/F-16/2020/2108/87300
	safeguards other than the routine letters		
	for logistic support for site visits).		

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.	•						
3 (ii)	DG set shall be discontinued after commissioning of captive power plant	28 MW DG sets (3 DG sets of 6 MW & 1 DG set of 10 MW) have been discontinued. 30 MW DG sets has been retained and shall be utilized for emergency purposes during preventive maintenance of 2x30 MW & 1x30 MW captive thermal power plant. MoEF&CC has granted permission for retention of 30 MW DG set (3 x 10 MW). A Copy of the approval letter 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: Hence, Condition complied.						
	Paryavaran Bha Loth Roat De OFFICE ORDER Sub: Retention of 30 MW DG Set installed at Cen	## All other conditions earlier prescribed vide this Ministry letters of even no. dated 15.03.2005 and 03.05.2009 and 13.012.2009 respectively shall aways. C.G.O. Complex. **This issues with the approval of the Competent Authority.** **This issues with the approval of the Competent Authority.** **This issues with the approval of the Competent Authority.** **This issues with the approval of the Competent Authority.** **This issues with the approval of the Competent Authority.** **This issues with the approval of the Competent Authority.** **This issues with the approval of the Competent Authority.** **This issues with the approval of the Competent Authority.** **P O Ambuja Nagar – 362715 **Talok Kodinor, Distr. Junsgarh.** **Opt to: **St. has been considered MY DG Set our of the compliance of the Sax30 MY. **St. has been considered MY DG Set our of the compliance of the Competent Authority.** **St. has been considered MY DG Set our of the compliance of the Competent Authority.** **St. has been considered MY DG Set our of the compliance of the Competent Authority.** **St. has been considered MY DG Set our of the compliance of the Competent Authority.** **St. has been considered MY DG Set our of the compliance of the Competent Authority.** **St. has been considered MY DG Set our of the Competent Authority.** **St. has been considered MY DG Set our of the Competent Authority.** **St. has been considered MY DG Set our of the Competent Authority.** **St. has been considered MY DG Set our of the Competent Authority.** **St. has been considered MY DG Set our of the Competent Authority.** **St. has been considered MY DG Set our of the Competent Authority.** **St. has been considered MY DG Set our of the Competent Authority.** **St. has been considered MY DG Set our of the Competent Authority.** **St. has been considered MY DG Set our of the Competent Authority.** **St. has been considered MY DG Set our of						
3 (iii)	Coal requirement is estimated at 1180 (Indian/Imported Coal) of 25 – 35% / 15% content and 0.9% / 0.5% Sulphur content.							
3 (iv)	Any change in fuel shall be referred to committee.							



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

Hence condition is complied.



	•		•	`	,	, ,,			
3 (vi)	Water requirement shall No discharge of waste outside the plant bounda the waste water should the the plant.	water should be done ary / natural drain and all	•	and average domestic water consumption is 26.61 m3/day. Total Average water consumption is 283.35 m3/day which is within the permissible quantity 1460 m3/day.					
3 (vii)	Ground water will not be any purpose / use in carecycled water and / or reservoirs shall be used.	ptive power plant. Only	•	•					
3 (viii)	A regular auditing of grouse by an independent applace.		•	harve CSR Ceme harve Minis of th level How pote carrie Invest Rene grou	rested rain water is being us arm i.e. Ambuja Cemer lents Limited has constructing structures around to stry of Water Resources (Conis, Salinity of the area is lis augmented. Livever preliminary scientification in 1 km radius zone controlled out in Aug-2004 jointly stigation Consultancy Centrewed audit agency M/S DN	nt Foundation of Ambuja ructed various rain water the area in association with Govt. of Gujarat). As a result reduced and ground water of Captive power plant was by Ground Water & Mineral re (P) Ltd. Jaipur, Rajasthan. V is engaged for auditing of e year 2019 report reveals sitive.			
Instrudention Nev G. Neutro New G. Neutro Ne	DNV-GL NDEPENDENT VERIFICATION STATEMENT med. Accuracy India Places Limited (CWV-G-) has been commissioned by the of Accuracy Extenses Limited (CWV-G-) has been commissioned by the of Accuracy Extenses Limited (CWV-G-) has been commissioned by the of Accuracy Limited (CWV-G-) has been commissioned by the Accuracy Limited (CWV-G-) has been commissioned by the official CWV-G-) and the limited (CWV-G-) has been commissioned by the proposed to the second of the Accuracy Limited (CWV-G-) has been proposed to official CWV-G-) and the official CWV-G-) and the CWV-G-) and the official CWV-G-) and the order of the Accuracy Limited (CWV-G-) and the order of the Accuracy Limited (CWV-G-) and order of the Accuracy	The water debit data is accounted beard on metered water withdrawal aif the shift for frantmatter trails. The water credit data is based on recoprishmate, groundheater rechange and water aways extended across various water have becomes a contract of the water aways extended across various water have become a contract of the water aways extended across various water have beared in the contract of	relational bridge productions of the control of the	when the state of	Devinged pile 3000 4700 3200 2003 0 5000 15	DNV GL during the sample site wids at operational plants and relineater horiesting structures were add ested and isosporated in the Water Date. **Reliability and Accuracy** **Reliabili			

3 (ix)	Rain water harvesting should be adopted. Central Ground Water Authority / Board shall be consulted for finalization of appropriate water harvesting technology within a period of three months from the date of clearance.	ha Mi of lev Th ho co str CC ha Wi Wi Co are	e company rvesting strong strong strong strong selection of the company use hydrompetent to the cucture. Howevesting tender conserves in mbuja Cemmunity de eas is encleasures are	ructures a ater Resord of these ented has also ageologist. The contrology. Ahmedabay vation methe area agent Found evelopmer osed as a ater agent agen	round the urces (Govarea is rewell qual These & develors directed as directed as directed as ures to are being dation" (Ant work downder and as under.	e area in a vt. of Gujan duced and in house op rainwared, we hof approximated our site of augment of augment of ACF). A bridene by ACF	ssociation rat). As a rad ground vexperience experts ave consopriate value consopriate value es ground value con CSR ef about As in surroure eter harve	with result water are esting ulted water round water arm ACF & nding	
	Details for programme wise ex		tion - Ambujans or the year Apr *Funds received through Government	** Funds from other Donors /	***People's Contribution	****Direct Funding to Communities	(Rs. In lakhs)		
	Sr.No Programme GUJARAT - Kodinar 1 Water Resource Mangement & Drinking Water Projects a.Water Resource Devlopment	2,16	1.92	Agencies			Total Exp.		
	B .Drinking Water Programme	0.82				130.52	132.97		
	2 Agriculture Development(Farm Forestry & Afforesation)	4.83	3.65		35.53	49.01	93.02		
	3 BCI	8.11		85.69	76.54	112.44	282.78		
	4 Krishi Vigyan Kendra (KVK) - Agriculture	0.66	57.81				58.47		
	5 Health & Sanitation	3.10			2.95		6.05		
	Education Programme						0.00		
	6 Women / Youth Development	1.62					1.62	Н	
	7 Skill and Enterprunership Development Programme 8 Integrated Community Development Programme	25.68 11.22	8.50		5.86		40.04 11.22	H	
	9 Co-ordination & Administration Expenses	44.03					44.03	Н	
	10 Capital Expenditure						0.00	H I	
	TOTAL	102.23	73.51	85.69	120.88	291.97	674.28	П	
3 (x)			 Continuous online emission monitoring systems for particulate matter, SO₂ and NO_x have been installed at both stack and data are continuously transmitted & reported to CPCB and GPCB 						
3 (xi)	High efficiency Electrostatic Precipitator (ESP) having efficiency of 99.8% should be installed to limit outlet SPM emission at 100 mg/Nm3	 Hence Condition is complied o3 ESP's have been Installed and designed to restrict the PM emission below 50 mg/Nm³. Average concentration of PM is found to be 18.2 mg/Nm³ against specified limit of 50 mg/Nm³. Stack monitoring results for the period April'2020 to September'2020 is enclosed as under: Hence Condition is complied 						/Nm3	

Stack Mo	Stack Monitoring Results (April'2020 to September'2020)											
	Stack attached to											
Month		Boiler	1&1			Bo	iler III					
Month	PM	SOx	NOx	Hg	PM	SOx	NOx	Hg				
	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³	mg/Nm ³				
Apr-20	Due	to COV	/ID-19 L	ockdown	, Monit	oring no	t conduc	cted				
May-20	14.1	162.0	121.2	0.0031	13.8	437.2	224.5	0.0045				
Jun-20	18.3	172.4	128.4	0.0037	17.4	452.4	229.4	0.0048				
Jul-20	20.3	183.6	124.5	0.0041	18.9	441.8	221.1	0.0052				
Aug-20	18.3	191.2	134.3	0.0037	21.6	431.6	208.5	0.0047				
Sep-20	17.9	199.6	145.8	0.0039	20.8	475.5	222.1	0.0045				
Average	17.8	181.8	130.8	0.0037	18.5	447.7	221.1	0.0047				
Permissible Limit	50.0	600.0	300.0	0.03	50.0	600.0	300.0	0.03				

- The downwind AAQM station is 5 Km to the East. A station in the SE sector at a distance of 1 Km able to capture the impact of the existing & proposed stacks should be set up.
 - We have already setup AAQM stations in 5 Km to the E and
 1 Km in SE direction as suggested.
 - Ambient air quality monitoring reports for the period April'2020 to September'2020 are enclosed as under: Hence Condition is complied

	AI	nbien	LAIFQ				results (April'2020 to September'2020)						
				A۱	erage A	mbient A	ir Quality	Monitor	ring Res	ults (µg/m	13)		
Month	h 📙		Inside	TPP			Nava	para		Devalpara			
		PM2.5	PM10	SO2	NOx	PM2.5	PM10	SO2	NOx	PM2.5	PM10	SO2	NOx
Apr-20	0				Due to C	OVID-19	Lockdow	n, Monito	ring not c	onducted			
May-2	0	28.4	53.4	13.7	16.1	26.5	53.2	13.5	15.7	27.3	52.6	12.7	15.9
Jun-20	0	24.2	46.6	12.7	14.8	23.4	48.1	12.6	13.2	23.2	47.5	12.2	15.0
Jul-20)	19.2	38.5	11.3	14.2	20.5	39.7	12.0	14.5	20.5	40.1	11.9	14.7
Aug-2	0	19.6	37.7	11.4	15.1	20.0	37.7	11.2	14.4	20.5	38.8	12.5	15.2
Sep-20	0	22.3	40.1	11.6	14.9	22.1	40.0	11.6	14.7	22.1	40.3	11.6	15.0
Averag	je	22.7	43.2	12.1	15.0	22.5	43.8	12.2	14.5	22.7	43.9	12.2	15.2
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.					stored	Fly a utilize ownThere	sh is sto ed in cer cement	ored in S ment ma plant. pen stora	ell 630 TP ilo and b nufacturii age pond	ottom a ng along	with fly a	ash at o	
							Total perio	quantit d April' 2 Fly ash (y of fly 2020 to S Hence Generation	Ash gene eptember Condition	r'2020 as is comp 0 to Septe	under : ied. nber'2020)
							Month	ı ∣Ap	r-20 Ma	y-20 │ Jun-	-20 │ Jul-2	0 Aug-20	Sep-20

3 (xv)	Regular monitoring of water quality including heavy metals should be undertaken around ash dyke and the project area to ascertain the change in water quality, if any, due to leaching of contaminants from ash disposal area.	 Not applicable as there is no ash ponds. Fly ash generated is being stored at fly ash silo. Hence condition is complied.
3 (xvi)	Noise level should be limited to 75 dB (A) and regular maintenance of equipment will be undertaken. For people working in the area of generator and other high noise area, earplug should be provided.	 Monitoring of Ambient noise level is done on regular basis and the noise level around thermal power plant is maintained well below 75 dB (A). People working in the area of generator and other high noise areas are provided with necessary PPE's like earplugs and ear muffs. Hence condition is complied.
3 (xvii)	Greenbelt of 20-25 m along the plant boundary should be developed covering an area of 0.5 ha.	 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: Hence condition is complied.
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.	 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
		April'2020 to September'2020 enclosed as under:

A	Ambient Air Quality Monitoring Results (April'2020 to September'2020)											
	Average Ambient Air Quality Monitoring Results (μg/m3)											
Month	th Inside TPP					Nava	para			Deva	lpara	
	PM2.5	PM10	SO2	NOx	PM2.5	PM10	SO2	NOx	PM2.5	PM10	SO2	NOx
Apr-20	Due to COVID-19 Lockdown, Monitoring not conducted											
May-20	28.4	53.4	13.7	16.1	26.5	53.2	13.5	15.7	27.3	52.6	12.7	15.9
Jun-20	24.2	46.6	12.7	14.8	23.4	48.1	12.6	13.2	23.2	47.5	12.2	15.0
Jul-20	19.2	38.5	11.3	14.2	20.5	39.7	12.0	14.5	20.5	40.1	11.9	14.7
Aug-20	19.6	37.7	11.4	15.1	20.0	37.7	11.2	14.4	20.5	38.8	12.5	15.2
Sep-20	22.3	40.1	11.6	14.9	22.1	40.0	11.6	14.7	22.1	40.3	11.6	15.0
Average	22.7	43.2	12.1	15.0	22.5	43.8	12.2	14.5	22.7	43.9	12.2	15.2

- For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant should be ensured.
- 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.
- Photographs of fugitive dust control measures are enclosed as under.

Hence Condition is complied.











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

- 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 recommendation 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.

Hence condition is complied.

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 Forests in the http://envfor.nic.in.

- 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: **Hence condition is complied.**





3 (xxii)	suitable qualified	d staff sh	monitoring cell with nould be set up for ulated environmental	•	Dy. GM Deputy Manager - Envir	onnel is in place. nagement cell directly ration in order to oversoment protection measuronmental performance on chart is enclosed as unditation Chart Unit Head - Head Environment	report to the see effective ures and to e within the oder:		
3	Half yearly r	eport o	n the status of	•	Half yearly compliance stat		e monitored		
(xxiii)			ditions stipulated and		data are regularly submitte				
	environmental sa	afeguards	should be submitted		and soft copies, our last				
	to this Ministry /	Regional o	ffice / CPCB / SPCB.		Letter No . ACL/EMD/F-16/20				
						ition is complied.			
3	Regional office of	of the Mir	istry of Environment	•	EIA report and manageme	ent plan have been sub	mitted vide		
(xxiv)	and Forests located at Bhopal will monitor the				our letter no. GACL/EMD/4	-			
			tipulated conditions.			tion is complied.	,		
	Complete set					'			
	1	•	Management Plan						
			e Regional Office for						
	their use during r								
3 (xxv)	1		be allocated for	•	Capital investment for e	nvironment monitorin	g Rs 57.08		
(XXV)			onmental protection		Lakhs.				
			wise break-up. These s part of the project	•	Recurring expenditure		ril'2020 to		
			for the environment		September'2020 is 51.76 I	Lakhs.			
			d not be diverted for	•	Details of capital ar	nd recurring expen	diture for		
	1 .		-wise expenditure		environmental protection	measures are enclosed as under:			
	should be reporte			Hence condition is complied.					
			·			·			
					Environment Managem				
		-		r En	vironmental Monitoring				
		5.No	Particulars			Cost (In Lacs)			
	-	1	Monitoring Equipn Environment Labo			37.08 10.00			
		3	Others (Monitoring		•	10.00			
			(Total (In Lacs INR)	57.08			
		B. Rec	urring Expenditure f	or tl	ne period of April'2020 to Se				
		5.No			iculars	Cost			
		1		me	nt & Dust suppression	0.87			
		2	Manpower Cost *			25.42			
		3	House Keeping Maintenance of Po	lluti	on Control Equipments	8.76 12.99			
		<u>4</u> 5			(Environmental Monitoring)	3.52			
	6 Environment Awar					0.20			
					Total (In Lacs INR)	51.76			
		* Ex	penditures are Com	non	for All the Plants & Mines.				

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3 xxvi	Full cooperation should be extended to the Scientist/officer from the Ministry / Regional Office of the Ministry at Bhopal / the CPCB/The SPCB who would be monitoring the compliance of environmental stipulations and measures.	•	Full support and co-operation is being extended during the visit of officer from Ministry of Environment & Forest, CPCB as well as GPCB. Project was monitored by Director (Regional Office, Bhopal) during 12.10.10 to 13.10.10.& 17.08.2016 Hence condition is complied.
4	The ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the ministry.	•	Agreed.
5	The environmental clearance accorded shall be valid for a period of 5 years for construction/operation of the power plant. In case ,if the project authorities fails to do so within this stipulated period , this environmental clearance shall stand lapsed automatically.	•	The environment clearance was issued on Nov-2005 and first phase of project was commissioned in 2007 and second phase of project was commissioned in 2010. Hence condition is complied.
6	In case of any deviation or alteration in the project proposed from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition (s) imposed and to add additional environmental protection measures required, if any.	•	The company has applied for type of fuel change to MOEF&CC for amendment of EC condition and same has been amended as per MOEF&CC letter dated 03.06.2009 & 03.12.2009. Hence condition is complied.
7	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 Waste (Management & Handling)Rules, 1989 and its amendments, the Environment Impact assessment Notification of January, 1994 and its amendments.	•	All stipulations under Water (Prevention and Control of pollution)Act, 1974, the Air (Prevention and control of Pollution) Act 1981, the Environment Protection Act, 1986, Hazardous waste Rules, 1989 amendment 2003, 2008 2016 and EIA Notification 1994 are being complied. Hence condition is complied.
		1- IA	. II (T) dated 03.06.2009 issued to Thermal Power Plant [EC 1st
(i)	The Pet coke shall be blended with imported coal and the blended fuel shall be used instead of imported/indigenous coal.		As per further amendment in CPP EC dated 03.12.2009 we are blending lignite and domestic coal in addition to petcoke and imported coal and using as fuel details as under: Hence condition is complied.
(ii)	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 %.		Blending of fuels is done in a manner to restrict Sulphur percentage below 3.5% in blended fuel. Limestone dosing is done along with coal, in order to limit Sulphur dioxide emission. Hence condition is complied.
(iii)	All the waste generated from sulphur quenching shall be used in a cement plant.	•	
(iv)	First aid and sanitation arrangement shall be made for the drivers and the contract workers during construction phase.	•	All required facilities such as first aid, drinking water and sanitation arrangements were made for the drivers and the contract workmen during the construction phase. All these facilities are also available for workmen presently working in thermal power plant. A multispecialty hospital of 60 beds is established in 2015 at Ambujanagar. Hence condition is complied.

- (v) Regular monitoring of ground level concentration of SO2, NOx, Hg, SPM and RSPM shall be carried out in the impact zone and records should be maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be submitted to the regional office of the ministry. The data shall also be put on the website of the company.
- Ambient air quality is being regularly monitored at identified AAQM stations and report is being regularly submitted to SPCB on monthly basis and to MoEF on six monthly basis. Ambient air quality monitoring report for the period **April'2020** to **September'2020** enclosed as under:

Hence condition is complied.

Ambient Air Quality Monitoring Results (April'2020 to September'2020)												
	Average Ambient Air Quality Monitoring Results (µg/m3)											
Month	Inside TPP				Navapara				Devalpara			
	PM2.5	PM10	SO2	NOx	PM2.5	PM10	SO2	NOx	PM2.5	PM10	SO2	NOx
Apr-20	Due to COVID-19 Lockdown, Monitoring not conducted											
May-20	28.4	53.4	13.7	16.1	26.5	53.2	13.5	15.7	27.3	52.6	12.7	15.9
Jun-20	24.2	46.6	12.7	14.8	23.4	48.1	12.6	13.2	23.2	47.5	12.2	15.0
Jul-20	19.2	38.5	11.3	14.2	20.5	39.7	12.0	14.5	20.5	40.1	11.9	14.7
Aug-20	19.6	37.7	11.4	15.1	20.0	37.7	11.2	14.4	20.5	38.8	12.5	15.2
Sep-20	22.3	40.1	11.6	14.9	22.1	40.0	11.6	14.7	22.1	40.3	11.6	15.0
Average	22.7	43.2	12.1	15.0	22.5	43.8	12.2	14.5	22.7	43.9	12.2	15.2

- (vi) Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities 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.
- Project has already completed and plant is under operational stage.
- Presently, all our management staff and wage board employees are residing in company provided residential colony.

Hence Condition is complied.

- (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.
- 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 25.11.2019 vide letter no. ACL/EMD/F-16/2019/2048. Pollutants level is being uploaded on website and also being displayed on board at main gate of the power plant.

Hence Condition is complied.

(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.

Hence, Condition is complied

Со	Compliance Status of Environmental Clearance No. J-13012/20/2004- IA. II (T) dated 03.12.2009 issued to Thermal Power Plant [EC 2nd amendment]						
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.	•					
(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. Hence Condition is complied.					
(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.	 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. Hence Condition is complied. 					
(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. Hence Condition is complied.					
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.					