

REGD. A/D

ACL/EMD/F-16/2017/

29.11.2017

The Director (s),

Ministry of Environment & Forest (MoEF),
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 TPP.

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'17 to September'17) of Environmental Clearance Order No. 13012/20/2004.I(A)-II (T) granted by MoEF to 90 MW **Thermal Power Plant** of Ambuja Cements Ltd., located at Ambujanagar, Taluka - Kodinar, District – Gir Somnath (Gujarat). We are also enclosing here with CD containing soft copy of the same.

In case of further clarification/information require, we shall be please to provide the same.

Thanking you,

Yours Faithfully,
For **Ambuja Cements Ltd.**

Dr. Anand K. Rai
HOD (Environment)

Encl.: As above.

CC:

- 1) Central Pollution Control Board
Privesh Bhavan, Atmajyoti Ashram Rd,
Opp. VMC Ward Office No. 10, Subhanpura,
Vadodara – 390023 (Gujarat)

- 2) Member Secretary,
Gujarat Pollution Control Board,
Sector 10A, Paryavaran Bhavan, Gandhinagar-382010
- 3) Regional Officer
Gujarat Pollution Control Board,
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

Date: 29.11.2017

- | | | | |
|----|--|---|--|
| 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 ⁰ 00' N |
| | d) Longitude | : | 70 ⁰ 30' E |
| 05 | Address for correspondence | : | |
| | a) Address of concerned Project Chief Engineer (with pincode & telephone / telex / fax numbers). | : | Shri S Ramarao
(Unit Head)
Ambuja Cements Ltd.
PO Ambujanagar-362715
Taluka- Kodinar
District- Gir Somnath (Gujarat)
Tel: 02795-221136/237200
Fax: 02795-220328/222032 |
| | b) Address of Executive Project Engineer / Manager (with pincode / fax numbers). | : | Shri Pravin Varotaria
(Head -TPP)
Ambuja Cements Ltd.
PO Ambujanagar-362715
Taluka- Kodinar
District- Gir Somnath (Gujarat)
Tel: 02795-221136/237230
Fax: 02795-220328/222032 |

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 515⁰c
- Air cooled Condenser (ACC)

b) of the environmental management plans :

a) Construction Phase

Proper disposal construction waste
Adequate erosion control plan to minimize soil erosion.

Minimize noise by using appropriate noise control measure.

Spraying suppression at regular intervals

b) Operation Phase

- Separate 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, SO₂ & NO_x have been installed at boiler stack.
- Ambient Air Quality Monitoring is being regularly carried out at three locations for PM 10, PM 2.5, SO₂, NO_x and the monitoring report is being regularly submitted to SPCB & MoEF.
- 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** – It involves regular monitoring of waste water from RO plant. Waste water from RO plant is being stored in closed Water tank and used for cooling process in cement plant.
- A green belt in available area has been created which gives aesthetic look to the plant and also helps in dust level abatement.
- **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 Break up of the project area.

a) Submergence area (forest & non-forest) : Not applicable

b) Others : 4.8 ha (excluding cement plant).

08 Break up 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

a) SC, ST / Adivasis : ---

b) Others	:	---
09 Financial details	:	
a) Project 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
b) Allocation made for environmental management plans with item wise and year wise breakup	:	Rs. 11.39 Crore were allocated for Environment Management Plan and it included in Project cost
c) 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 Crore
f) Actual expenditure incurred on the environmental management plans so far.	:	11.39 Crore April-Sept. 2008 Rs. 5.39 Crore Oct.-March 2009 Rs. 0.05 Crore April – Sept.2009 Rs. 0.16 Crore Oct.'09 – March'10 Rs. 0.22 Crore April'10 –Sept.'10 Rs. 0.32 Crore Oct.'10 – March'11 Rs. 0.67 Crore April'11 – Sept.'11 Rs. 0.23 Crore Oct.'11 - March'12 Rs. 0.36 Crore April '12 – Sept.'12 Rs. 0.19 Crore Oct'12 – March'13 Rs. 0.20 Crore April'13-Sept.'13 Rs. 0.34 Crore Oct'13.-March'14 Rs. 0.35 Crore April'14 – Sept.'14 Rs. 0.29 Crore Oct.'14 – March'15 Rs. 0.29 Crore April'15 –Sept.'15 Rs. 0.39 Crore Oct.'15 – March'16 Rs. 0.40 Crore April'16-Sept.'16 Rs. 0.45 Crore Oct.'16 – March'17 Rs. 0.44 Crore April'17-Sep'17 Rs. 0.51 Crore

Total = Rs. 11.39 Crore

- 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 resorted to
- 12 Status of construction. :
- a) Date of commencement (Actual and / or planned) :
- 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 :
- a) The dates on which the project was monitored by the Regional Office on previous occasions, if any. : 12.10.10 to 13.10.10 (by Dr. A. Mehrotra Regional Office, Bhopal),
- b) Date of site visit for this monitoring report : 17.08.2016

- 15 Details of correspondence with project : Half yearly compliance status report is
authorities for obtaining action plans / being regularly submitted and last
information on status of compliance to submission was on 30.05.2017 vide letter
safeguards other than the routine letters no.ACL/EMD/F-16/2017
for logistic support for site visits).

Compliance Status of Environmental Clearance issued to 90 MW Captive Thermal Power Plant
(EC vide MoEF letter No. J – 13012/20/2004. IA –II (T) dated 15th March and 18th March, 2005)

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.	<ul style="list-style-type: none"> Gujarat Pollution Control Board vide their letter no. PC/NOC/CCA-49/11712 dated 15.04.2004 stipulated seventeen conditions & PC/CCA –JNG-49/32287 dated 11.10.2004 stipulated two conditions. All this conditions are complied with and strictly implemented. <p style="text-align: center;">Hence condition complied.</p>
3 (ii)	DG set shall be discontinued after commissioning of captive power plant	<ul style="list-style-type: none"> 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 continued for emergency purposes during preventive maintenance of 2x30 MW & 1x30 MW captive thermal power plant. MoEF 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 vide our letter no. ACL/EMD/F-16/2010/55928 dated 25.12.2010 Copy of the same is enclosed as Annexure 1 <p style="text-align: center;">Hence, Condition complied.</p>
3 (iii)	Coal requirement is estimated at 1180 TPD (Indian/Imported Coal) of 25 – 35% / 15% ash content and 0.9% / 0.5% Sulphur content.	<ul style="list-style-type: none"> Total Coal requirement is 1180 TPD (Indian/Imported Coal) quality is being complied for Indian/Imported coal. <p style="text-align: center;">Hence, Condition complied.</p>
3 (iv)	Any change in fuel shall be referred to the committee.	<ul style="list-style-type: none"> MoEF 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. Copy of the same are enclosed as Annexure 2a and Annexure 2b respectively. <p style="text-align: center;">Hence condition is complied.</p>
3 (v)	Copy of coal linkage duly approved by SLC Ministry of coal should be submitted before starting commissioning at the site.	<ul style="list-style-type: none"> 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 Annexure 3

Compliance Status of Environmental Clearance issued to 90 MW Captive Thermal Power Plant
(EC vide MoEF letter No. J – 13012/20/2004. IA –II (T) dated 15th March and 18th March, 2005)

		Hence condition is complied.
3 (vi)	Water requirement shall not exceed 1460 m ³ /day. No discharge of waste water should be done outside the plant boundary / natural drain and all the waste water should be recycled and reused in the plant.	<ul style="list-style-type: none"> Average Industrial Water consumption is 400 m³/day and average domestic water consumption is 40 m³/day. Total Average water consumption is 440 m³/day which is less than 1460 m³/day. Our Thermal power plant is Zero Liquid Discharge unit, waste water (RO reject water) generated from thermal power plant is being re-used for cooling at cement plant. <p style="text-align: center;">Hence Condition is complied.</p>
3 (vii)	Ground water will not be extracted/purchased for any purpose / use in captive power plant. Only recycled water and / or stored water in Mine pit reservoirs shall be used.	<ul style="list-style-type: none"> 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. <p style="text-align: center;">Hence condition is complied.</p>
3 (viii)	A regular auditing of ground water availability and use by an independent agency should be put in place.	<ul style="list-style-type: none"> 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. Hence, regular ground water auditing is not required. 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, Rajasthan. <p style="text-align: center;">Hence condition is complied.</p>
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.	<ul style="list-style-type: none"> The company 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 these area is reduced and ground water level is augmented The company has also well qualified and experienced in-house hydrogeologist. These in house experts are competent to design & develop rainwater harvesting structure.

Compliance Status of Environmental Clearance issued to 90 MW Captive Thermal Power Plant
(EC vide MoEF letter No. J – 13012/20/2004. IA –II (T) dated 15th March and 18th March, 2005)

		<p>However, as directed, we have consulted CGWA/CGWB for finalization of appropriate water harvesting technology. Officials from – Central Ground Water Board, Ahmedabad has visited our site.</p> <ul style="list-style-type: none"> Water conservation measures to augment ground water resources in the area are being done by our CSR arm “Ambuja Cement Foundation” (ACF). A brief about ACF & community development work done by ACF in surrounding areas is enclosed as Annexure 4a and rain water harvesting measures are enclosed as 4b. <p align="center">Hence Condition is complied</p>
3 (x)	Two stacks of 94 m height each shall be provided with continuous online monitoring system with exit velocity of 20-25m/sec should be maintained.	<ul style="list-style-type: none"> Two stacks are provided with height 95 m each. Continuous online emission monitoring systems for particulate matter, SO₂ and NO_x have been installed at both stacks and exit velocity of 20-25 m/sec is being maintained. <p align="center">Hence Condition is complied</p>
3 (xi)	High efficiency Electrostatic Precipitator (ESP) having efficiency of 99.8% should be installed to limit outlet SPM emission at 100 mg/Nm ³	<ul style="list-style-type: none"> 03 ESP's have been Installed and designed to restrict the PM emission below 100 mg/Nm³. Average concentration of SPM is found to be 35.5 mg/Nm³ against specified limit of 100 mg/Nm³. Stack monitoring results for the period April'17 to September'17 is enclosed as Annexure 5. <p align="center">Hence Condition is complied</p>
3 (xii)	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.	<ul style="list-style-type: none"> 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'17 to September'17 are enclosed as Annexure 6. <p align="center">Hence Condition is complied</p>
3 (xiii)	Space for FGD installation shall be kept in the plant premises.	<ul style="list-style-type: none"> Space for FGD installation has been kept in the plant premises itself. <p align="center">Hence Condition is complied</p>
3 (xiv)	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.	<ul style="list-style-type: none"> Total average ash generation including bottom ash is 77 TPD which is less than 630 TPD. Fly ash is stored in Silo and bottom ash directly (100%) utilized in cement manufacturing along with

Compliance Status of Environmental Clearance issued to 90 MW Captive Thermal Power Plant
(EC vide MoEF letter No. J – 13012/20/2004. IA –II (T) dated 15th March and 18th March, 2005)

		<p>fly ash at our own cement plant.</p> <ul style="list-style-type: none"> • There is no open storage space as Fly ash is stored in silo. • Total quantity of ash generated along with photograph during April'17 to September'17 is enclosed as Annexure 7. <p style="text-align: center;">Hence Condition is complied</p>
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.	<ul style="list-style-type: none"> • Not applicable as there is no ash ponds. Fly ash generated is being stored at fly ash silo. <p style="text-align: center;">Hence condition is complied.</p>
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.	<ul style="list-style-type: none"> • 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. <p style="text-align: center;">Hence condition is complied.</p>
3 (xvii)	Greenbelt of 20-25 m along the plant boundary should be developed covering an area of 0.5 ha.	<ul style="list-style-type: none"> • 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 Annexure 8. <p style="text-align: center;">Hence condition is complied.</p>
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.	<ul style="list-style-type: none"> • 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'17 to September'17 is enclosed as Annexure 6. <p style="text-align: center;">Hence condition is complied.</p>
3 (xix)	For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant should be ensured.	<ul style="list-style-type: none"> • 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

Compliance Status of Environmental Clearance issued to 90 MW Captive Thermal Power Plant
(EC vide MoEF letter No. J – 13012/20/2004. IA –II (T) dated 15th March and 18th March, 2005)

		<p>from all the sources. Regular monitoring of fugitive dust emission is carried out at the prescribed intervals.</p> <ul style="list-style-type: none"> Photographs of fugitive dust control measures are enclosed as Annexure 9 <p style="text-align: center;">Hence Condition is complied.</p>
3 (xx)	All other mitigative measures shall be taken as enumerated in Chapter 5 of the REIA report.	<ul style="list-style-type: none"> The main mitigation measures suggested in REIA chapter -5 are as follows. <ul style="list-style-type: none"> ➤ 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 vide our letter no.ACL/EMD/F-16/2010/55928 dated 25.12.2010. <p style="text-align: center;">Hence condition is complied.</p>
3 (xxi)	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 .	<ul style="list-style-type: none"> 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 vide our letter no.ACL/EMD/F-16/2010/55928 dated 25.12.2010. Copy of the same is enclosed as Annexure 10 <p style="text-align: center;">Hence condition is complied.</p>
3 (xxii)	A separate environmental monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.	<ul style="list-style-type: none"> A well established Environmental Management Division (EMD) with suitable qualified personnel is in place. 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 Annexure 11. <p style="text-align: center;">Hence condition is complied.</p>
3	Half yearly report on the status of	<ul style="list-style-type: none"> Half yearly compliance status report along with the

Compliance Status of Environmental Clearance issued to 90 MW Captive Thermal Power Plant
(EC vide MoEF letter No. J – 13012/20/2004. IA –II (T) dated 15th March and 18th March, 2005)

(xxiii)	implementation of the conditions stipulated and environmental safeguards should be submitted to this Ministry / Regional office / CPCB / SPCB.	monitored data are regularly submitted to MoEF/CPCB/SPCB in hard and soft copies, our last submission was on 30.05.2017 vide letter no.ACL/EMD/F-16/2017. Hence condition is complied.
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.	<ul style="list-style-type: none"> EIA report and management plan have been submitted vide our letter no. GACL/EMD/44/2005/30623 dated 09/04/2005. Hence condition is complied.
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.	<ul style="list-style-type: none"> Capital investment for environment monitoring Rs 57.08 lakhs. Recurring expenditure for period of April'17 to September'17 is 51.45 lakhs. Details of capital and recurring expenditure for environmental protection measures are enclosed as Annexure 12. Hence condition is complied.
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.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Not applicable to project proponent.
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.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> The company has applied for type of fuel change to MOEF for amendment of EC condition and same has been amended as per MOEF 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	<ul style="list-style-type: none"> All stipulations under Water (Prevention and Control of pollution)Act, 1974, the Air (Prevention and control of Pollution) Act 1981, the Environment

Compliance Status of Environmental Clearance issued to 90 MW Captive Thermal Power Plant

(EC vide MoEF letter No. J – 13012/20/2004. IA –II (T) dated 15th March and 18th March, 2005)

	(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.	<p>Protection Act , 1986, Hazardous waste Rules, 1989 are being complied.</p> <ul style="list-style-type: none"> For Hazardous waste being stored at designated place and collection and transportation is being done by state pollution control board authorized recyclers for recycling purpose. <p>Hence condition is complied.</p>
Compliance Status of Environmental Clearance No. J-13012/20/2004- IA. II (T) dated 03.06.2009 issued to Thermal Power Plant [EC 1st amendment]		
(i)	The Pet coke shall be blended with imported coal and the blended fuel shall be used instead of imported/indigenous coal.	<ul style="list-style-type: none"> Petcoke is blended with imported coal and being used as fuel. <p>Hence condition is complied.</p>
(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 %.	<ul style="list-style-type: none"> 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. <p>Hence condition is complied.</p>
(iii)	All the waste generated from sulphur quenching shall be used in a cement plant.	<ul style="list-style-type: none"> All the waste generated from sulphur quenching is being used in cement plant. <p>Hence condition is complied.</p>
(iv)	First aid and sanitation arrangement shall be made for the drivers and the contract workers during construction phase.	<ul style="list-style-type: none"> 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. <p>Hence condition is complied.</p>
(v)	Regular monitoring of ground level concentration of SO ₂ , NO _x , 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.	<ul style="list-style-type: none"> 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'17 to September'17 enclosed as Annexure 6. <p>Hence condition is complied.</p>
(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	<ul style="list-style-type: none"> 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.

Compliance Status of Environmental Clearance issued to 90 MW Captive Thermal Power Plant
(EC vide MoEF letter No. J – 13012/20/2004. IA –II (T) dated 15th March and 18th March, 2005)

	care, creche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	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, SO ₂ , NO _x (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.	<ul style="list-style-type: none"> • 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/CPCB/SPCB both in hard and soft copies, our last submission was on 30.05.2017 vide letter no. ACL/EMD/F-16/2017. Pollutants level is being uploaded on website and also being displayed on board at main gate of the power plant. <p align="center">Hence Condition is complied.</p>
(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 update the same from time to time at least on six monthly basis. Criteria pollutants level (Stack & ambient level of NO _x) will be displayed at the main gate of the power plant.	<ul style="list-style-type: none"> • 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. <p align="center">Hence, Condition is complied</p>

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.	<ul style="list-style-type: none"> • Not applicable to project proponent.
(i)	CFBC Boiler shall be installed along with air cooled condenser and ESP having at least 99.8% efficiency.	<ul style="list-style-type: none"> • CFBC Boilers are installed along with air cooled condensers and highly efficient ESP's to control emission. <p align="center">Hence Condition is complied.</p>
(ii)	Sulphur content in blending fuel shall not exceed 3.5% and 90% SO ₂ removal shall be achieved by lime dosing or any other suitable mechanism.	<ul style="list-style-type: none"> • 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. <p align="center">Hence Condition is complied.</p>
(iii)	100% Fly Ash utilization shall be achieved from the date of commissioning of the plants of total capacity.	<ul style="list-style-type: none"> • 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. <p align="center">Hence Condition is complied.</p>

Compliance Status of Environmental Clearance issued to 90 MW Captive Thermal Power Plant

(EC vide MoEF letter No. J – 13012/20/2004. IA –II (T) dated 15th March and 18th March, 2005)

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.	<ul style="list-style-type: none">• Complied as all above condition.
---	--	--



J-13012/20/2004- IA. II (T)
Government of India
Ministry of Environment & Forests

Telephone: 011-2436 7257
 e-mail: w.bharat@nic.in
 Paryavaran Bhavan, C.G.O. Complex,
 Lodi Road, New Delhi - 110003.
 Dated: August 04, 2010.

OFFICE ORDER

Sub: Retention of 30 MW DG Set installed at Cement Plant at village Vadnagar, in Junagarh Distt., in Gujarat - reg.

Sir,

The undersigned is directed to refer to your letter dated 22.03.2010 requesting for allowing retention of 30 MW DG Set installed within the premises of Cement and Captive Power Plants at village Vadnagar, in Junagarh Distt., in Gujarat

2. In this regard it is to inform you that the request has been considered and permission is hereby granted for retaining 30 MW DG Set out of the total installed capacity of 58 MW subject to strict compliance of the following:

- i) The 30 MW DG Set retained shall be used only for emergency purpose during preventive maintenance of any one of the 3x30 MW Lignite/Coal/Petcoke Based Captive TPP.
- ii) Sulphur content in fuel for 30 MW DG Set shall not exceed the permissible limits as prescribed under this Ministry's notification issued vide GSR 489 (E), dated 09.07.2002.

3. It is accordingly informed that in the Ministry's letter of even no. dated 15.03.2005, the condition no. (ii) under para no. 3 shall be now substituted as under:

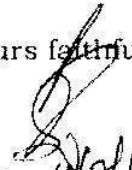
"30 MW DG Set only shall be retained strictly as stand-by arrangement for power requirement during preventive maintenance of any one of the 3x30 MW Captive TPP".

Cont'd.....

4. 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 remain the same.

This issues with the approval of the Competent Authority.

Yours faithfully,


(W. Bharat Singh)
Deputy Director

✓ M/s Gujarat Ambuja Cements Ltd.
P.O Ambuja Nagar - 362715
Taluk: Kodinar, Distt: Junagarh
Gujarat.

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi - 110 001.
2. The Secretary, Deptt. Of Forests & Environment, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar - 382010.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi - 110 066.
4. The Chairman, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector-10A, Gandhi Nagar - 382010.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110032.
6. The Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office (WZ), Kendriya Paryavaran Bhawan, E-5 Arera Colony, Ravishankar Nagar, Bhopal - 462016.
7. Director (EI), MoEF
8. Guard file.
9. Monitoring file.


(W. Bharat Singh)
Deputy Director

By Speed Post

No.J-13012/20 /2004-IA.II(T)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan,
CGO Complex, Lodi Road,
New Delhi- 110003.

Dated : 3rd June, 2009

To

M/s Gujarat Ambuja Cements Ltd
P.O.Ambujanagar- 362 715
Taluka -Kodinar, Distt. Junagarh
Gujarat

Subject: Change in fuel in 3x30 MW CPP at vill. Vadnagar, Distt. Junagarh,
Gujarat by M/s Gujarat Ambuja Cements Ltd – Environmental clearance
regarding.

Sir,

Reference is invited to your letter no. Nil dated 24th March, 2009 regarding
change in fuel in respect of the above mentioned project.

2. 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 .

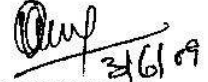
3. The proposal has been considered and in accordance with the recommendation
of the EAC, the Ministry of Environment & Forests has no objection for change in fuel
from imported/indigenous coal to Pet coke blended with imported coal subject to strict
implementation of all the conditions contained in the environment clearance letter of
even no. dated 15th March, 2005 and additional conditions stipulated as follows:

- (i) The Pet coke shall be blended with imported coal and the blended
fuel shall be used instead of imported / indigenous coal.
- (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 %.

- (iii) All waste generated from sulphur quenching shall be used in a cement plant.
- (iv) First aid and sanitation arrangements shall be made for the drivers and the contract workers during construction phase.
- (v) Regular monitoring of ground level concentration of SO₂, NO_x, Hg, SPM and RSPM shall be carried out in the impact zone and records 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 decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.
- (vi) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- (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 pollutant levels namely; SPM, RSPM, SO₂, NO_x (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.
- (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 in their website and up-date the same from time to time at least six monthly bases. Criteria pollutants levels (Stack & ambient levels of NO_x) will be displayed at the main gate of the power plant.

This issues with the approval of the Competent Authority.

Yours faithfully,



(OM PRAKASH)
DEPUTY DIRECTOR

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001.
2. The Secretary, Environment & Forests Deptt., Government of Gujarat, Sachivalaya, 8th floor, Gandhi Nagar-382010 (Gujarat).
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chairman, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector 10-A, Gandhi Nagar-382010.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
6. The Chief Conservator of Forests, Western Regional Office, Ministry of Environment & Forests, Kendriya Parayavaran Bhawan, E- 5, Arera Colony, Link Road -3, Ravishankar Nagar, Bhopal-462016.
7. Director (EI), MOEF.
8. Guard file.
9. Monitoring file.

(OM PRAKASH)
DEPUTY DIRECTOR



J-13012/20/2004- IA. II (T)
Government of India
Ministry of Environment & Forests

Paryavaran Bhavan, C.G.O. Complex,
Lodi Road, New Delhi -110003.
Dated: December 03, 2009.

13

OFFICE ORDER

Sub: 90 MW Captive Power Plant at Ambuja Nagar, in Gujarat -reg.

Sir,

The undersigned is directed to refer to your letters dated 18.09.2009 requesting for allowing domestic coal and lignite along with pet coke blended with imported coal.

2. In this regard it is to inform you that the matter has been examined in consultation with the Expert Appraisal Committee (Thermal), it is to inform that this 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 atleast 99.8% efficiency.
- ii) Sulphur content in blended fuel shall not exceed 3.5 % and 90% SO₂ removal shall be achieved by lime dosing or any other suitable mechanism.
- iii) 100 % Fly Ash utilization shall be achieved from the date of commissioning of the plants of total capacity.

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.

This issues with the approval of the Competent Authority.

Yours faithfully,


(W. Bharat Singh)
Deputy Director

M/sGujarat Ambuja Cements Ltd.
P.O Ambuja Nagar – 362715
Taluk: Kodinar, Distt: Junagarh
Gujarat.

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi – 110 001.
2. The Secretary, Deptt. Of Forests & Environment, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar – 382010.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi – 110 066.

4. The Chairman, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector-10A, Gandhi Nagar – 382010.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 110032.
6. The Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office (WZ), Kendriya Paryavaran Bhawan, E-5 Arera Colony, Ravishankar Nagar, Bhopal - 462016.
7. Director (EI), MoEF
8. Guard file.
9. Monitoring file.

(W.Bharat Singh)
Deputy Director



South Eastern Coalfields Limited

MINIRATNA CATEGORY-I COMPANY

(A Subsidiary of Coal India Limited)

Seepat Road, P.O. SECL,
Bilaspur-495 006 (Chhattisgarh)

Tel. 07752-246322

Fax. 07752-246472

Sales & Mktg. Deptt.

SECL/BSP/S&M/COMML/31/ACL CPP (LOA)/ 2803

Dtd: 24.09.2008

To,
Ambuja Cements Limited,
P. O. Ambujanagar,
Taluka-Kodinar, Dist.-Junagadh,
Gujrat-362715

Speed Post

Dear Sir,

Subject: Letter of Assurance

Preamble

In consideration of the request by **Ambuja Cements Limited, P. O. Ambujanagar, Taluka-Kodinar, Dist.-Junagadh, Gujrat-362715** (hereinafter referred to as "**the Assured**") for issuance of Letter of Assurance (hereinafter referred to as "**LOA**") requiring **4,94,000** tonnes per annum (tpa) of **F Grade** coal for its **90 MW** Captive Power Plant located at **P. O. Ambujanagar, Taluka-Kodinar, Dist.-Junagadh, Gujrat-362715** (hereinafter referred to as "**CPP**"), from about **October'2008**, as requested by the Assured, **SECL** (hereinafter referred to as "**the Assurer**") hereby provisionally assures that it would endeavour to supply coal to the Assured subject to the following terms and conditions:

1. Scope of Assurance

1.1 Quantity & 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, as per the normative requirement of the CPP, **4,94,000** tonnes per annum (tpa) 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 availability of coal from 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 meeting out the commitments already made) is less than the incremental coal demand, such incremental availability shall be distributed on pro-rata basis and the balance quantity of coal requirement shall be met through imported coal available with the Seller, which too shall be distributed on pro-rata basis.

** Parameters in case of imported coal shall be as specified by CIL/Assurer.*

1.2 Price of coal

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 shall 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, shall 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 levies.

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.

1.4 Force-Majeure affecting the Assurer

In the event that development of the coal block identified by the Assurer for the purpose of meeting the normative 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-Majeure event affecting the source(s) of imported coal or logistical bottlenecks faced in transportation and unloading; which are not within the control of and not caused by the negligence 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.

2. Fulfillment of Assured's obligations

2.1 Time-bound achievement of milestones

The Assured shall undertake to complete all the activities, as mentioned in Annexure 1 to this LOA, within twenty four (24) months from the date of issue of LOA and each activity within the time-period mentioned against it. For the avoidance of any doubt, the time-period of twenty-four (24) months, as aforesaid, shall include any Force Majeure Act that may occur during the validity of the LOA.

2.2 Reporting Requirement

The Assured shall submit the status of each activity/milestone including the documentary evidence in relation to such status within the time-period as mentioned in Annexure 1.

2.3 Verification by the Assurer

The Assurer reserves the right to independently verify the status of each milestone, as mentioned in Annexure 1, and satisfy itself of its authenticity; and in the event of any significant or reasonable discrepancy found by the Assurer in respect of the status reported /documentary evidence submitted by the Assured, the Assurer shall notify the Assured forthwith upon which the Assured shall correct the discrepancy so noted by the Assurer within seven (7) days. Further, in the event that the Assured fails to correct the discrepancy as provided herein the Assured shall be liable to submit additional Commitment Guarantee, as per Clause 3.3.

3. Commitment Guarantee by the Assured

3.1 Amount of Commitment Guarantee

Prior to the date of issue of this LOA, the Assured have provided to the Assurer, a Commitment Guarantee (CG), in cash / bank guarantee, for a sum of Rs. **2,81,58,000 (Rs. Two Crore Eighty One Lakhs Fifty Eight Thousand)** equivalent to ten percent (10%) of base price of Grade F* Run-of-Mine (ROM) coal of the Assurer prevalent on the date of application for issue of LOA, multiplied by the quantity of coal mentioned in the Preamble, {Note: in no case shall the CG be less than Rs.3,00,000/- (Indian Rupees Three lakhs only) or be more than Rs.6,00,00,000/- (Indian Rupees Sixty Million only) per mtpa of coal quantities requested by the Assured or part thereof.} Such CG shall be non-interest bearing, and in case of it being deposited in the form of bank guarantee it

should comply with the format specified by the Assurer and issued by a scheduled bank acceptable to the Assurer.

** In case of multiple grades mentioned in Clause 1.1, grade with the highest useful heat value (UHV) shall be considered for the purpose of calculation of commitment advance.*

3.2 Validity & Conversion of Commitment Guarantee

The Commitment Guarantee (CG) shall remain valid until four (4) months after the expiry of the LOA period of twenty-four (24) months. Thereafter, the CG shall stand converted into the Contract Performance Guarantee (CPG) that would be the condition precedent to signing of the FSA, in which case validity of the CG shall be extended in accordance with the terms of the FSA. For the avoidance of any doubt, the Assured shall be liable to submit the guarantee for such further amount that may result from the difference between the CPG under FSA and the CG under this LOA.

3.3 Additional Commitment Guarantee

If any activity/milestone is not duly performed or completed by the Assured within the time stipulated against each such activity/milestone, as specified in Annexure 1, then the Assured shall be liable to furnish to the Assurer one tenth (1/10th) of the amount of CG for each such non-performed or incomplete milestone, as additional Commitment Guarantee, within fifteen (15) days from the date such activity/milestone is falling due for completion. For the avoidance of any doubt, such additional CG may need to be deposited multiple times subject to partial/non-fulfillment of each activity/milestone at the end of each half-yearly interval, as mentioned in Annexure 1. The aggregate of additional CG(s) in no case shall exceed the amount of CG, as specified in Clause 3.1 above. Further, such additional CG(s) shall at all times be deemed to be a part of the CG and all related provisions of this LOA shall be equally applicable for additional CG.

3.4 Encashment of Commitment Guarantee

3.4.1 Cancellation or withdrawal of LOA

In the event that any of the activities/milestones is delayed beyond the period specified against each such activity/milestone in Annexure 1 and the Assured fails to furnish the additional CG to the Assurer in accordance with Clause 3.3 hereof, or the Assured furnishes additional CG to the Assurer in accordance with Clause 3.3 hereof but fails to fulfill all the activities/milestones within the total period of twenty-four (24) months, as specified in Annexure 1, the Assurer shall

have the right to cancel or withdraw this LOA after duly notifying the Assured in writing at least seven (7) days in advance. For the avoidance of doubt, all the milestones, as specified in Annexure 1, shall need to be fully completed and any partial completion of any activity/milestone at the end of validity of LOA shall entitle the Assurer to cancel or withdraw this LOA. Upon such cancellation/ withdrawal of this LOA, the Assurer shall encash the CG including any additional CG submitted by the Assured. It is clarified for removal of doubt that this Clause shall survive the cancellation/ withdrawal of this LOA.

3.4.2 Failure to sign the FSA

The Assurer shall have the right to encash the CG in the event of failure by the Assured to sign the FSA within three (3) months from the expiry of validity of the LOA or the satisfactory achievement of all the milestones, as shown in Annexure 1, whichever is earlier. It is also clarified to the Assured that the percentage of annual contracted quantity fixed with respect to Take or Pay obligations in the FSA may be reviewed by the Seller in light of its coal availability and coal commitments, and amended on year-to-year basis during the term of the FSA.

4. Validity of the LOA


The LOA shall remain valid for a period of twenty-four (24) months from the date of issue of this LOA, and shall stand annulled upon expiry of such period.

5. Assignment of the LOA

The Assured shall not, without the express prior written consent of the Assurer, assign to any third person the LOA, or any right, benefit, obligation or interest therein or thereunder.

6. End-use of coal

The total quantity of coal assured pursuant to this LOA is for use at the CPP, and the Assured shall not re-sell or trade the coal assured or supplied hereunder to any third party. If at any time in the reasonable opinion of the Assurer, the Assured has entered into an arrangement for such resale or trade of such coal supplies, the Assurer shall cancel/withdraw this LOA without incurring any liability whatsoever, including the liability for payment of damages to the Assured.


GENERAL MANAGER(S&M)

SOUTH EASTERN COALFIELDS LIMITED

BILASPUR (CG)

Copy for kind information:

- 1) CMD, SECL
- 2) DT(O), SECL
- 3) DT(P&P), SECL
- 4) CGM(S&M), CIL, Kolkata

Annexure 4(a)

Ambuja Cement Foundation - Ambujanagar Details for programme wise expenditure for the year April 2017 to Sept. 2017

(Rs. In lakhs)

Sr.No	Programme	ACF - ACL	received	other Donors /	Contribution	Funding to	Total Exp.
	GUJARAT - Kodinar						-
1	Water Resource Mangement & Drinking Water Projects						
	a. Water Resource Devlopment	33.55					33.55
	B .Drinking Water Programme	6.28	4.17		64.84	95.76	171.05
	C. Salinity Prevention (KVY III)	7.47		34.49	32.97	43.33	118.26
2	Agriculture Development(Farm Forestry &Afforesation)	7.03	3.08		31.70	47.48	89.29
3	BCI	1.65		33.43	15.98	27.63	78.69
4	Krishi Vigyan Kendra (KVK) - Agriculture	0.18	52.77				52.95
5	Health & Sanitation	3.38			2.84	2.76	8.98
6	Women / Youth Development	3.46					3.46
7	Skill and Enterprunership Development Programme	31.39	10.40				41.79
8	Integrated Community Development Programme	73.21					73.21
9	Co-ordination & Administration Expenses	47.07					47.07
10	Capital Expenditure						0.00
	TOTAL	214.67	70.42	67.92	148.33	216.96	718.30

Ambuja Cement Foundation (Unit: Ambujanagar, Kodinar, Gujarat)

Key Performance Indicators up to 2017 (Sept. 2017)

Sr. No	Details of Work/activities	Unit	Up to 2016-17	Achievements during 2017-18 (Sept. 2017)	Cummulative up to 2017-18 (Sept. 2017)
1A	Water Resources Management and Drinking Water Projects				
	a. Checkdam construction / Renovation	No	212	5	217
	c. Well Recharging / Percolation well	No	1235	27	1262
	d. Ponds Construction / Renovation	No	114	0	114
	e. Link Channels / Canals construction	Km	66.64	0.05	66.69
	f. Water Storage Tank / Farm Ponds	No	734	0	734
	g. Total surface water harvested	MCM	36.07	0.81	36.88
B	Drinking Water Projects				
	a. RRWHS Construction	No	3773	1	3774
	b. Drinking water wells / Bore wells / Renovation of Saline Wells / Bouris	No	115	0	115
	c. Overhead / Cistern Tank construction/underground sump	No	24	1	25
	d. Community Based Drinking Water Project	No	56	0	56
C	Soil and Water Conservation				
	a. Area Treated (Gully Control / Gabion / loose boulder structure / weir crates / Khadine	Ha	11876	0	11876
2A	Agriculture Development				
	a. Micro Irrigation system, Drip and Sprinklers	Acre	10367.66	508.8	10876.46
	No. of units	No	326		
	No of families		299		
	d. Training & Exposure visits	No	2529	507	3036
	Farmers trained	No	65293	15880	81173
	e. Vermi / NADEP Composting	No	158	0	158
	g. Aquaculture	No	120	0	120
	i. Seed Production programme	Acre	1007	159	1166
	j. Better Cotton Initiative - Area covered	Acre	17337.5	1617	36292
	- Farmers covered	No	19553	379	19932
	k. Farmer producer organization	No	1	0	1
	l. No of members	No	2145	0	2145
B	Farm Forestry and Afforestation				
	a. Horticulture Plantation	Acre	10768.8	962.65	11731.45
	No of plants	nos	813132	64873	878005
	b. Agro-Farm Forestry	Acre	5353.74	0	5353.74
	c Afforestation	Acre	17.77	0	17.77
	d. Avenue plantation / Roadside plantation	Km	8.68	0	8.68
3	Animal Husbandry Programme				
	a. Cattle Health Camps	No	208	9	217
	Cattles Treated	No	159754	9335	169089
	Cattle Immunised	No	26066	0	26066
	b. Fodder Demonstrations	Acre	2349.1	120	2469.1
	c. Artificial Insemination	No	49123	0	49123
	d. Integrated cattle feeding system	No	800	0	800
	e. Dairy co-operatives formed	No	1	0	1
	g. No of families benefited by AH programme		7797	428	8225
4	Non Conventional Energy				
	a. Biogas Plants	No	526	0	526
	b. Smokeless Chullahs	No	4107	0	4107
5	Education Development				
	b. School / Anganwadi (Balwadi)Support Programme	No	18	1	19
	h. Village / School Library	No	3	0	3
	i. Village Knowledge Centre / Computer education	No	3	0	3
	j. Adolescent Education Programme	No	4	0	4
	l. Students training / exposure visits	No	137	4	141
	n. Schools benefited	No	32	3	35
	o.No of students benefited under Education Development		7445	213	7658
7	Health and sanitation Programme				
	a. No of camps organised (include all general and speciality health camps)	No	308	12	320
	Patients benefited	No	53947	2206	56153
	b. Villages benefited under mobile & weekly dispensary	No	22	0	22

	Patients treated	No	350102	0	350102
	c. Sakhis (Village Health Functionaries)	No	19	0	19
	d. Villages covered by <i>Sakhis</i> / Patients treated by <i>Sakhis</i>	No	14/28459	1075	29534
	No of Patients treaded				
	e. Khelwadi sessions conducted by <i>Sakhis</i>	No	3240	93	3333
	f. Health intervention trainings done (include trainings of Sakhis / Govt. health fucntioneries)	No	23	3	26
	Participants in trainings	No	678	19	
	g. Construction of Toilet Blocks / Sulabh Sauchalaya / Soak Pits	No	8174/0/128	923	9097
	h. Villages where Total Sanitation Campaign initiated	No	175	33	208
	i. No of Village Health Sanitation Committees activated	No	73	0	73
8A	HIV/AIDS Awareness Programme (Community)				
	h. No of people benefited	No	136268	0	136268
B	Workplace Programme				
	a. Awareness session for Staff / Families / contract staff / laboures / Truckers / Students / Rural community	No	8833	0	8833
	b. Master Trainers / peer educators		64	0	64
9	Skill and Entrepreneurship Development Programme				
	a. No of institute		1	0	1
	b. No of batches / courses	No	143	15	158
	c. Entrepreneurs trained under SEDI / ITI	No	2694	261	2955
	d. No of trainees placed	No	2193	216	2409
	e. No of trainees persuing (Continuation)		278	337	337
10	Women and Youth Development				
	a. No of SHG formed		471	0	470
	No of members		6027	0	6027
	b. Training & Exposure (women)	No	740	89	829
	No of participants	No	24167	3296	27463
	c. Training & Exposure (Youth)		63	7	70
	No of participants	No	4128	296	4424
	d. No of Federations Formed	No	1	0	1
11	Rural Infrastructure Development Programme				
	a. Construction of Common Pathways / Village Roads	No / Mtrs	45802.4	7048	52850.4
	b. Street Light installation	No	1	0	1
	c. Drainage construction	Mtrs	1075	0	1075
	d. Crematorium / Ghats construction/ Drinking water facilities	No	28	1	29
	e. Community Centre construction / School classroom	No	112	2	114
	f. Support for Social and Cultural Events	No	272	15	287
	g. House repairing	No	0		
	h. Construction of culverts / bridge	No	7	1	8
	j. Construction of new School	No	2	0	2
	k. No of villages covered	No	69	0	69
	l.const.of compoundwall for common area	Rmt	444	50	494
12	Gir Forest Conservation project				
	a. Construction of Parapet wall around wells to protect wild animals	No	1515	0	1515
13	Krishi Vigyan Kendra - Kodinar				
	a. No of villages covered	No	304	0	304
	b. No of farmers trained	No	104374	3909	108283
	c. No of technology transfered	No	155	16	171
	d. No of technology tested	No	65	7	73
14	Over all coverage				
	a.No of villages		361	47	408
	a.Approx No of People benefited		787622	87466	875088
15	KVY III programmes				
	a. IPM,INM&IDM practice adopted	Acre	52644	13843	66487
	b.Soil testing	Farmers	2434	519	2953
	c.Village information centre	Villages	36	0	36
	d. SMS base agri. information system 3 SMS/month	Farmers	18445	2077	20522
16	Community safety awarness programmes				
	Community Safety	No	420	115	535
	Total participant in community safety	No	12091	2658	14749

Stack Monitoring Results)
(April 2017-September 2017)

Month	Stack attached to					
	Boiler I & II			Boiler III		
	PM	SOx	NOx	PM	SOx	NOx
	mg/Nm ³	ppm	ppm	mg/Nm ³	ppm	ppm
Apr-17	36.00	39.50	21.70	33.00	41.90	19.40
May-17	38.00	37.60	22.50	35.00	40.10	20.90
Jun-17	36.00	39.90	23.60	32.00	41.70	19.80
Jul-17	34.00	37.20	22.00	29.0	40.90	18.40
Aug-17	32.00	38.60	23.90	26.0	41.70	17.50
Sep-17	30.00	40.90	22.50	24.0	43.60	18.90
Minimum	30.0	37.2	21.7	24.0	40.1	17.5
Maximum	38.0	40.9	23.9	35.0	43.6	20.9
Average	34.3	39.0	22.7	29.8	41.7	19.2
Permissible Limit	100.0	100.0	50.0	100.0	100.0	50.0

Ambient Air Quality Monitoring Results
(April 2017 - September 2017)

Month	Average Ambient Air Quality Monitoring Results (in µg/m ³)											
	Inside TPP				Navapara				Devalpara			
	PM2.5	PM10	SO ₂	NO _x	PM2.5	PM10	SO ₂	NO _x	PM2.5	PM10	SO ₂	NO _x
Apr-17	32.8	54.8	12.6	16.8	24.6	44.6	11.8	16.0	26.0	46.4	11.8	16.1
May-17	30.7	52.7	11.7	16.0	23.0	43.1	11.6	15.7	24.5	44.0	12.0	15.8
Jun-17	28.0	50.3	11.9	15.8	21.5	42.5	11.7	15.6	22.4	45.2	11.4	15.4
Jul-17	26.0	48.4	12.4	16.2	20.9	41.4	11.9	16.3	21.4	43.6	11.2	15.8
Aug-17	26.8	51.3	11.7	15.9	21.9	43.4	11.3	15.7	23.4	46.5	11.3	15.6
Sep-17	28.0	53.3	11.6	15.6	22.9	44.0	11.4	15.4	20.4	43.9	11.4	15.5
Minimum	26.0	48.4	11.6	15.6	20.9	41.4	11.3	15.4	20.4	43.6	11.2	15.4
Maximum	32.8	54.8	12.6	16.8	24.6	44.6	11.9	16.3	26.0	46.5	12.0	16.1
Average	28.7	51.8	12.0	16.1	22.5	43.2	11.6	15.8	23.0	44.9	11.5	15.7

Fly Ash generation at 3*30 TPP
(April'17 to September'17)

Month	Quantity (MT)
April	5009.07
May	5065.34
June	4657.97
July	4203.92
August	4274.47
September	4442.64

ANNEXURE – 8

Green belt around periphery of Thermal Power Plant





Greenary inside Thermal Power Plant



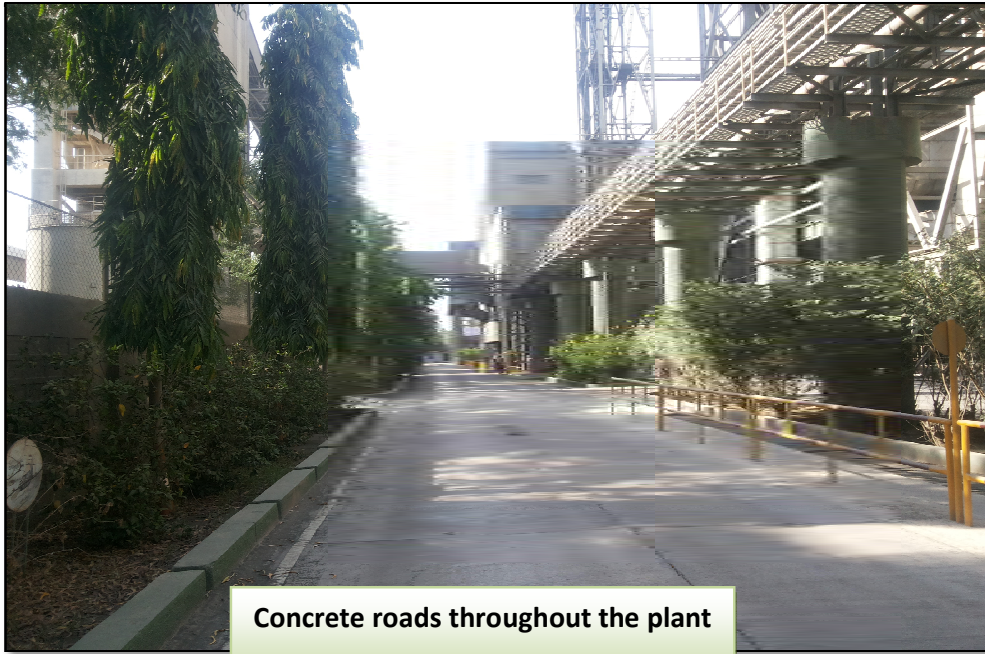




ESP to control Dust emission at source



Dust Sweeping Machine



Concrete roads throughout the plant

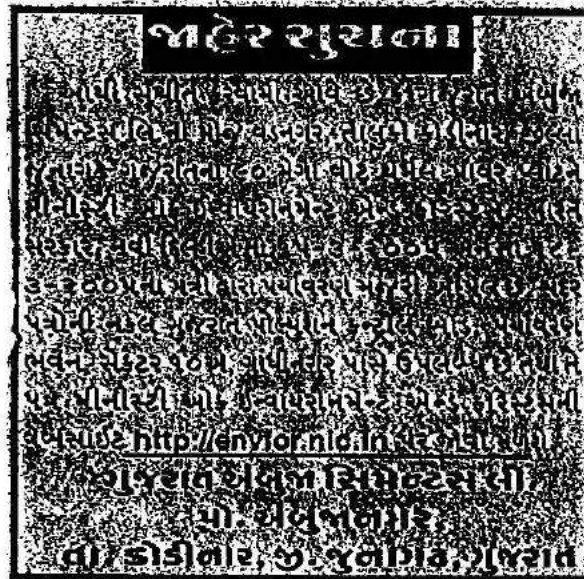


Properly covered Fly ash storage silo

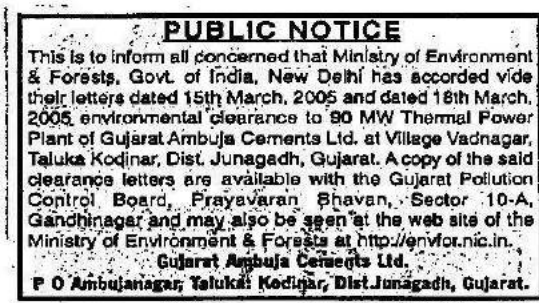


**Covered belt conveyor from Coal
storage area to Boiler**

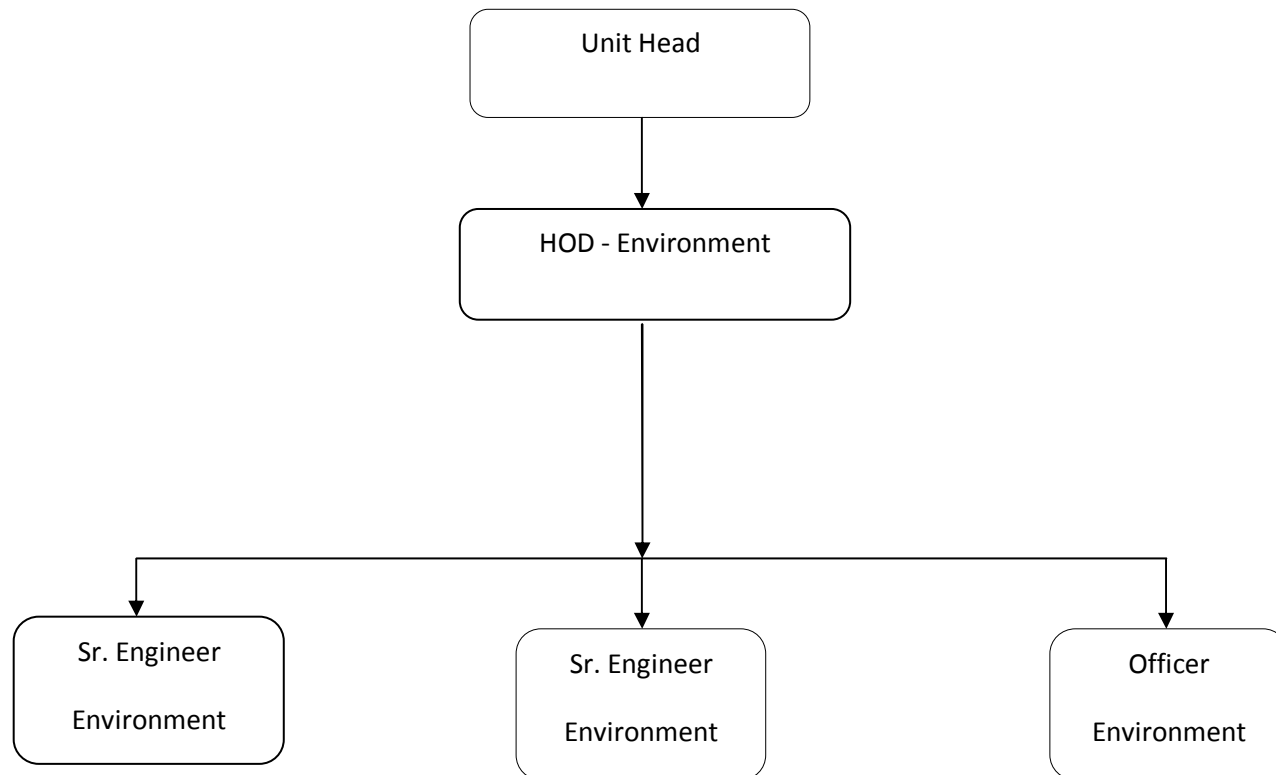
"JAI HIND" DATED-24-03-2005



"INDIAN EXPRESS" DATED 24-03-05



Annexure 11 [ORGANISATION CHART]



(A) Capital Investment for Environmental Monitoring :

(1) Monitoring Equipments	: 37.08 Lakh
(2) Environmental Laboratory	: 10.00 Lakh
(3) Others (Monitoring Van & DG sets)	: 10.00 Lakh

Total : Rs. 57.08 Lakh**(B) Recurring expenditure for the period of April'17 to September'17 :**

(1) Green belt development	: 1.30 Lakh
(2) Manpower Cost*	: 15.15 Lakh
(3) House Keeping	: 9.79 Lakh
(4) Maintenance of Pollution Control Equipments	: 21.85 Lakh
(5) Other Env. Protection (Environmental Monitoring)	: 2.41 Lakh
(6) Environmental Awareness*	: 0.95 Lakh

Total : Rs. 51.45 Lakh

*Expenditures common for all plants & mines

**(C) Community Development expenditure by Ambuja : Rs. 718.30 lakh
Cement Foundation****

** Community development expenditure is common for all plant & mines at Ambujanagar for the period of April'17 to September'17. Programme Wise Expenditure Details is as below:

Ambuja Cement Foundation - Ambujanagar							
Details for programme wise expenditure for the year April 2017 to Sept. 2017							
							(Rs. In lakhs)
Sr.No	Programme	ACF - ACL	*Funds received through Government	** Funds from other Donors / Donor Agencies	***People's Contribution	****Direct Funding to Communities	Total Exp.
	GUJARAT - Kodinar						-
1	Water Resource Mangement & Drinking Water Projects						
	a.Water Resource Devlopment	33.55					33.55
	B .Drinking Water Programme	6.28	4.17		64.84	95.76	171.05
	C. Salinity Prevention (KVV III)	7.47		34.49	32.97	43.33	118.26
2	Agriculture Development(Farm Forestry &Afforesation)	7.03	3.08		31.70	47.48	89.29
3	BCI	1.65		33.43	15.98	27.63	78.69
4	Krishi Vigyan Kendra (KVK) - Agriculture	0.18	52.77				52.95
5	Health & Sanitation	3.38			2.84	2.76	8.98
6	Women / Youth Development	3.46					3.46
7	Skill and Enterprunership Development Programme	31.39	10.40				41.79
8	Integrated Community Development Programme	73.21					73.21
9	Co-ordination & Administration Expenses	47.07					47.07
10	Capital Expenditure						0.00
	TOTAL	214.67	70.42	67.92	148.33	216.96	718.30