

UPDATED FORM -1

FOR

Amendment in EC

(EC Granted :**J-11011/36/2007-IA II(I)** dated **18th May, 2007**)
(2.5 MTPA Cement Plant, 30 MW Captive Power Plant and 100 TPH Coal washery)

**FOR USE
OF PET COKE AND RICE HUSK IN ADDITION TO COAL IN
CEMENT PLANT AND CAPTIVE POWER PLANT**

Submitted under Clause 7 (II)

AT

ACC

ACC Limited

BARGARH CEMENTWORKS

Cement Nagar, PO- Bardol, Dist.-Bargarh State - Odisha.

Prepared By



B.S. ENVI-TECH (P) LTD

Secunderabad – 500 017

NABET Accreditation No: NABET/EIA/1316/RA002

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(I) Basic Information

1	Name of the Project	ACC Ltd Bargarh Cement Works
2	S. No. in the Schedule	3 (b) – Column 3 (Cement Plants)
3	Proposed Capacity	Amendment in EC (J-11011/36/2007-IA II(I) dated 18th May, 2007) for use of Petcoke and Rice Husk (in proportion based on the availability) in addition to Coal in Existing Plant -2.5 MTPA Cement and 2x15 MW CPP of ACC Bargarh Cement Works
4	New/Expansion/Modernization	Amendment in the EC (J-11011/36/2007-IA II(I) dated 18th May, 2007) under clause 7(ii)
5	Existing Capacity/Area etc.	EC obtained Existing Plant Cement Production – 2.5 MTPA 2x15 MW Coal Based Power Plant
6	Category of Project	A under clause 7(ii)
7	Does it attract General Condition?	No
8	Does it attract Special Condition?	No
9	Location	
	Plot/Survey/Khasra No.	Enclosed as Exhibit -1
	Village	Cement Nagar
	Tehsil	Bargarh
	District	Bargarh
	State	Odisha
10	Nearest Railway Station and Distance	Bargarh Road, 8 KM
	Nearest Airport and Distance	Raipur – 224km
11	Nearest Town(Village)& Distance	Bargarh 4 km
	Nearest City & Distance	Sambalpur – 50 km
	Nearest District HQ and Distance	Bhubaneswar– 322km
12	Village Panchayat	Bargarh
	ZillaParishad	
	Municipal Corporation/ Local Body	
13	Name of the applicant	ACC Limited
14	Registered Address	ACC Limited,

		Cement House, 121, MaharshiKarve Road, Mumbai, Maharashtra, Pin – 400 020
	Address for Correspondence	ACC Limited, Bargarh Cement Works, Village : Cement Nagar, PO: Bardol, Dist – Bargarh, State – Odisha, Pin – 768038
15	Name	Anil Singewar
	Designation (Owner/Partner/CEO)	Director Plant
	Address	ACC Limited, Bargarh Cement Works, Village : Cement Nagar, PO: Bardol, Dist – Bargarh, State – Odisha,
	Pin Code	768038
	Email	anil.singewar@acclimited.com
	Telephone No.	+ 91 6646 247161
	Fax No.	+ 91 6646 246430
16	Details of Alternative Sites examined, if any.	<p>Bargarh Cement Works (BCW) is in operation since 1968. The present production capacity of the plant is 2.5 Million TPA Cement and 2x15 MW Captive Power Plant.</p> <p>Bargarh Cement Works (BCW) have been granted Environmental Clearance for cement production of 2.5 MTPA & 2x15 MW Captive power plant</p> <p>Proposal is for amendment in EC for Fuel change in the existing plant - 2.5 MTPA Cement and 2x15 MW CPP hence not applicable.</p>
17	Interlinked Projects	Not applicable
18	Whether separate application for interlinked projects has been submitted?	Not Applicable
19	If yes, date of submission	Not Applicable
20	If no, reason	Not Applicable
21	Whether the proposal involves approval/ clearance under: if yes, details of the same and their status to be given. a. The Forest (Conservation) Act, 1980?	Not Applicable

	b. The Wildlife (Protection) Act, 1972? c. The C.R.Z. Notification, 1991?	
22	Whether there is any Government Order/ Policy relevant/ relating to the site?	No
23	Forest Land involved (Hectares)	No
24	Whether there is any litigation pending against the project and/or land in which the project is proposed to be set up? a. Name of Court b. Case No. c. Orders/directions of the Court, if any, and its relevance with the proposed project.	There is no litigation pending

(II)Activity

1. Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
1.1	Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan)	No	Proposal is for amendment in EC (MoEF letter no. J-11011/36/2007 - IA. II (I) dt. 18th May 2007) granted for 2.5 MTPA cement and 2x15 MW CPP for use of Petcoke (0.207 MTPA max) and Rice Husk (in proportion with petcoke or coal based on the availability) in addition to Coal in cement - plant and captive power plant. Use of Petcoke as an additional

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
			fuel with coal up to 100% maximum in existing Plant of 2.5 MTPA Cement and 2x15 MW CPP units is proposed within the existing operating plant premises. Hence there will not be any change in the existing land use/land cover or topography.
1.2	Clearance of existing land, vegetation and buildings?	No	Not Applicable
1.3	Creation of new land uses	No	Not Applicable
1.4	Pre-construction investigations e.g. bore holes, soil testing	No	Not Applicable
1.5	Construction works	No	Not Applicable
1.6	Demolition works	No	Not Applicable
1.7	Temporary sites used for construction works or housing of construction workers	No	No additional manpower is required
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	No	No construction is involved
1.9	Underground works including mining or tunneling	No	Not Applicable,
1.10	Reclamation works	No	Not Applicable
1.11	Dredging	No	Not Applicable
1.12	Offshore structures	No	Not Applicable
1.13	Production and manufacturing processes	No	There is no change proposed in the production & manufacturing process/capacities. Only use of pet coke (Max.0.207 MTPA) in addition to coal in the proportionate depending upon the availability.
1.14	Facilities for storage of goods or materials	No	Existing facilities are sufficient

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
1.15	Facilities for treatment or disposal of solid waste or liquid effluents	No	Additional solid waste generated as bottom ash from Limestone injection in boiler will be used in cement manufacturing process.
1.16	Facilities for long term housing of operational workers	No	No additional manpower is required, therefore no long term plan for housing construction.
1.17	New road, rail or sea traffic during construction or operation	No	Existing road/rail will be utilized.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc	No	Existing road/rail will be utilized.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements	No	There is no closure or diversion of existing transport of routes or infrastructure leading to changes in traffic movements
1.20	New or diverted transmission lines or pipelines	No	Not Applicable
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers	No	Not Required
1.22	Stream crossings	No	Not applicable
1.23	Abstraction or transfers of water from ground or surface waters	No	There will not be any change in water requirement
1.24	Changes in water bodies or the land surface affecting drainage or run-off	No	Not applicable
1.25	Transport of personnel or materials for construction, operation or decommissioning	No	Not applicable
1.26	Long-term dismantling or	No	Not Applicable

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
	decommissioning or restoration works		
1.27	Ongoing activity during decommissioning which could have an impact on the environment	No	Not Applicable
1.28	Influx of people to an area in either temporarily or permanently	No	No additional manpower required
1.29	Introduction of alien species	No	Nil
1.30	Loss of native species or genetic diversity	No	Nil
1.31	Any other actions	No	Nil

2. Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply):

S.No.	Information/checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
2.1	Land especially undeveloped or agricultural land (ha)	No	Not Applicable
2.2	Water (expected source & competing users) unit: KLD	No	No additional water will be required; hence there will not be any change in water requirement due to use of petcoke, rice husk. Permitted water requirement is (8130 KLD) is being met from the canal, harvested rainwater collected and used from rain water harvesting structure available at factory colony.
2.3	Minerals (MT)	Yes	0.038 MTPA of Limestone will be used for injection in boilers. Source : Cement Plant
2.4	Construction material – stone, aggregates, sand / soil (expected source – MT)	No	Not Applicable

S.No.	Information/checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
2.5	Forests and timber (source – MT)	No	Not Applicable
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	<p>Pet coke would be used to the maximum extent possible in addition to coal depending upon it's availability. Approx. Max quantity of pet coke usage would be 0.207 MTPA (max).</p> <p>Source of Pet coke: The source of Petcoke will be either imported or indigenous.</p>
2.7	Any other natural resources (use appropriate standard units)	No	Not Applicable

3. Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
3.1	Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)	No	No hazardous material will be used in construction which falls under MSIHC rules
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	Not Applicable
3.3	Affect the welfare of people e.g. by changing living conditions	No	No change in living conditions of the existing people is anticipated
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	Not applicable
3.5	Any other causes	No	-

4. Production of solid wastes during construction or operation or decommissioning (MT/month)

S.No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
4.1	Spoil, overburden or mine wastes	No	Not applicable, as the proposal is for use of petcoke, rice husk along with coal in Kiln and Captive Power plant
4.2	Municipal waste (domestic and or commercial wastes)	No	No additional municipal waste would be generated
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	No	No additional hazardous waste will be generated in the cement plant and captive power plant due to usage of petcoke, rice husk.
4.4	Other industrial process wastes	No	Not Applicable. There will not be any generation of other industrial process waste.
4.6	Sewage sludge or other sludge from effluent treatment	No	There will not be any change
4.7	Construction or demolition wastes	No	No construction or demolition are involved
4.8	Redundant machinery or equipment	No	Not Applicable
4.9	Contaminated soils or other materials	No	Not Applicable
4.10	Agricultural wastes	No	Not Applicable
4.11	Other solid wastes	No	Not Applicable

5. Release of pollutants or any hazardous, toxic or noxious substances to air (Kg/hr)

S.No .	Information/Checklist confirmation	Yes / No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data								
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	Yes	<p>Overall Emissions Due To Use Of 100% Pet coke in addition to Coal In Kiln Of Cement Plant And Boiler Of Captive Power Plant</p> <table border="1"> <tr> <th>Parameters</th><th>Existing Environmental Clearance</th><th>Proposed EC Amendmen</th><th>Change remark</th></tr> <tr> <td> </td><td> </td><td> </td><td> </td></tr> </table>	Parameters	Existing Environmental Clearance	Proposed EC Amendmen	Change remark				
Parameters	Existing Environmental Clearance	Proposed EC Amendmen	Change remark								

S.No .	Information/Checklist confirmation	Yes / No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data			
				(EC)	t	
			Particulate Matter	32.68	25.99	↓ decrease In overall emission
			Sulphur Dioxide	212.29	151.27	
			Oxides of Nitrogen	629.06	363.24	
5.2	Emissions from production processes	Yes	Details given in 5.1			
5.3	Emissions from materials handling including storage or transport	No	No additional emissions from material handling, storage or transport are anticipated due to amendment in the EC.			
5.4	Emissions from construction activities including plant and equipment	No	No construction activities are involved due to fuel change			
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	No	Not Applicable			
5.6	Emissions from incineration of waste	No	Not Applicable			
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	Not Applicable			
5.8	Emissions from any other sources	No	Not Applicable			

6. Generation of Noise and Vibration, and Emissions of Light and Heat:

S.No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	No	There will not be any change due to amendment in the EC due to proposed fuel mix change.
6.2	From industrial or similar processes	No	No additional noise generation due to change of fuel as no additional machinery is proposed.

S.No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
6.3	From construction or demolition	No	No additional construction or demolition are involved due to fuel mix change
6.4	From blasting or piling	No	Not envisaged
6.5	From construction or operational traffic	No	No additional construction or operational traffic is involved. Coal /petcoke transport is by rail/road.
6.6	From lighting or cooling systems	No	Not applicable
6.7	From any other sources	No	Not applicable

7. Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea:

S.No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
7.1	From handling, storage, use or spillage of hazardous materials	No	There will not be any change
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No	No discharge of sewage or other effluents to water or the land
7.3	By deposition of pollutants emitted to air into the land or into water	No	There will not be any change due to amendment in the EC.
7.4	From any other sources	No	No change is anticipated due to use of pet coke, rice husk in addition to coal
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	Not applicable

8. Risk of accidents during construction or operation of the Project, which could affect human health or the environment

S.No	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
8.1	From explosions, spillages,	No	There will not be any change

	fires etc from storage, handling, use or production of hazardous substances		due to use of petcoke, rice husk in addition to coal.
8.2	From any other causes	No	Not envisaged
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	No	-----

9. Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
9.1	Lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g. <ul style="list-style-type: none"> Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) housing development extractive industries supply industries other 	No No No No No	Not Applicable Not applicable Not applicable Not envisaged Not envisaged
9.2	Lead to after-use of the site, which could have an impact on the environment	No	Not Applicable
9.3	Set a precedent for later developments	No	Not Applicable
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	Not envisaged

(III) Environmental Sensitivity

S.No.	Areas	Name/ Identity	Aerial distance(Within 15 km.)Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	None	none within 10 Km radius
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Jira River Bargarh Canal	Jira River – 2.5 km - SW Bargarh Canal - 0.1 km – N
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	None	none within 10 km radius
4	Inland, coastal, marine or underground waters	None	Not applicable
5	State, National boundaries	None	Not Applicable
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	None	Not Applicable
7	Defense installations	Nil	Not Applicable
8	Densely populated or built-up area	Bardol	0.5 km – NNW
9	Areas occupied by sensitive man-made land uses (<i>hospitals, schools, places of worship, community facilities</i>)	Bardol	0.5 km – NNW
10	Areas containing important, high quality or scarce resources(<i>ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals</i>)	None	Not Applicable
11	Areas already subjected to pollution or environmental damage. (<i>those where existing legal environmental standards are exceeded</i>)	None	Not Applicable
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (<i>earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions</i>)	None	Area falls under Seismically least active zone. i.e., Zone – III.

"I hereby give under taking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Date : 29-09-2016
Place : Bargarh, Odisha


Signature of the Applicant (Project proponent/ Authorized signatory)	 Anil Singewar DIRECTOR PLANT ACC Limited BARGARH CEMENT WORKS
Name	Anil Singewar
Designation	Director Plant
Address	ACC Limited, Bargarh Cement Works, Village : Cement Nagar, PO: Bardol, Dist - Bargarh, State - Odisha,

Exhibit -1**Factory Land particulars**

Sl.No.	Village / Mouza Name	Khata No	Plot No	Area in Acres
1	Khaliapali	25	10	0.03
2		61	45	0.65
3		135	47	0.05
4		191	8	2.72
5			9	0.19
6			12	3.60
7			30	4.06
8			32	4.00
9			36	2.18
10			37	1.20
11			38	0.46
12			40	5.56
13			48	24.41
14		203/54	11	1.08
15		203/55	22	0.04
16			31	4.73
17			33	5.31
18			39	1.17
19			41	0.85
20			44	5.55
21			46	1.82
22			73	1.80
23		205	42	47.52
53	Bardol	525	1744	2.24
54		529/35	1745	0.17
55		531	1746	0.34

Sl.No.	Village / Mouza Name	Khata No	Plot No	Area in Acres
65	Bargaon	774	904	0.99
66			905	0.44
67			906	0.35
68			907	0.10
69			908	0.18
70			909	0.34
71			910	0.03
72			911	0.62

