

ANNEXURE – 1

**CONSIDERATION FOR ENVIRONMENTAL CLEARANCE IN THE
19th EAC (THERMAL & COAL MINING PROJECTS) MEETING
SCHEDULED ON 13th – 14th AUGUST, 2014**

MOHANPUR (EXPAN.) OCP 2.0 MTY
UNDER CLAUSE 7(ii) OF EIA NOTIFICATION, 2006

EASTERN COALFIELDS LTD

BASIC INFORMATION AS PER ANNEXURE – 1 OF AGENDA FOR 19TH EAC
(THERMAL & COAL MINING PROJECTS)

PROJECT DETAILS		
1	Name of the project	Mohanpur (Expn.) OCP 2.0 MTY
2	Name of the Company, Address Tele No. & E-mail	Eastern Coalfields Ltd., P.O.- Sanctoria, Burdwan, WB Phone No.- 0314-2254510, E-mail id: envecl@yahoo.com
3	Latitude and Longitude of the project	Latitude 23° 46' 40" to 23° 47' 29" North Longitude 86° 56' 20" to 86° 57' 37" East
4	If a Joint venture, the names & addresses of the JV partners including their share	No Joint Venture
5	Detail of coal linkage	Kolaghat thermal power station
6	Whether the project is in the Critically Polluted Area (CPA)	No
7	Cost of the project	Project cost at inception was about Rs. 60.00 crores. Capital spent so far is Rs. 92.67 crores.
8	Whether new or expansion project . If expansion:	Expansion project
	(i) from MT to MT	1.0 MTY to 2.0 MTY
	(ii) What is the % of expansion	100%
9	If for expansion, whether the application is under 7(ii) of the EIA Notification, 2006.	Yes
10	If expansion, please indicate the number and date of the certified Compliance Report of Regional Office of the MoEF	File No. 106-102/EPE dated 07-05-2014
11	No. and Date of the ToR /and revised ToR, if any, letter issued by the MoEF (if this is a case for EC)	TOR issued vide letter no. No. J-11015/1128/2007-IA.II(M) dated 13 – 01 – 2008
12	No. and Date of the EC and the revised EC letter issued by the MoEF (if this is a case for reconsideration. If so, what specific reconsideration(s) being sought by the proponent)	EC was granted vide letter no. J-11015/1128/2007-IA.II(M) dated 10-12-2009
13	If the project was considered in EAC, Pl. give dates of the meeting (s)	Not considered earlier
14	Type of Mine: (Open cast/Underground/mixed)	Open cast project
15	Capacity of the mine applied for	EC has been sought for peak capacity of 2.0 MTY
16	ML Area i. As per block allotment ii. As per approved mine plan	Total Leasehold area of the project is 164.91 ha. Please refer table below –

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	Sl. No.	Land use Type	Area (Ha)			
			Existing	To be acquired	Total	
	1	Excavated area including haul-road	60.34	-	60.34	
	2	External OB Dump	20.00	-	20.0	
	3	Colliery Infrastructure/Built-up	2.00	-	2.0	
	4	Coal depot	1.00	-	1.0	
	5	Road	0.50	-	0.5	
	6	Village	-	7.70	7.70	
	7	Cultivable	4.30	17.10	21.40	
	8	Barren/Vacant land	26.77	25.20	51.97	
Total		114.91	50.00	164.91		
17	Date of approval of mine plan, mine closure plan, status & date		. Mine Closure plan of the mine has been approved in December, 2013.			
18	Date of Board's approval		Dec'13 (Mine Closure Plan)			
19	Date of Ground water clearance		Application made to CGWA			
20	Date of mine closure approval		December, 2013			
21	Any river/Nallha flowing near or adjacent to the proposed mine. If yes, please give details		No river/nalla flow near the leasehold area.			
	Technical Details					
22	Geological Reserve:					
	i. Total geological reserve					
	ii. Mineable reserve		7.09 MT			
	iii. Extractable reserve		7.09 MT			
	iv. Per cent (%) of extraction		100 %			
	v. Range of ground water level		Pre – monsoon(2013) variation : 1.35 m to 10.20 m (average – 5.60 m) BGL Post – monsoon(2013) variation : 0.50 m to 1.40 m (average – 0.90 m) BGL			
	vi. Total estimated water requirement		680 m ³ /day (for all purposes) 465 (for Mining and other activities) 215 (for domestic- township)			
23	Details of Seams: i. No of seams ii. Thickness of seams to be worked on iii. Grade of coal iv. Stripping ratio v. Category of gaseousness vi. Average gradient vii. Maximum thickness of seams		Mine wise details are provided below in tabular form			
	Sl No	Name of Coal Seam	Effective Thickness Range	Net Net Geological Reserve	Quality	
	1	Salanpur-D (Bot)	1.0 -2.0	0.31	D-G	
	2	Salanpur-C (Top)	1.0-2.0	0.18	D-G	

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3	Salanpur-C (Bot)	1.0-3.0	0.40	D-G
4	Salanpur-B (Top)	1.5-3.0	0.42	E-G
5	Salanpur-B (Bot)	2.0-6.0	1.62	F-G
6	Salanpur-B (Comb)	4.0-9.0		F-G
7	Salanpur-A	15.0-21.0	7.38	E-G
8	Salanpur-Special (Top)	1.5-3.5	0.29	D-G
9	Salanpur-Special (Bot)	1.0-4.0	1.27	B-E
10	Salanpur-Special (Comb)	7.5-8.5		E-F

In general the dip of the seams varies from 10 Degree 15 Degree towards south. Strike direction is along East- West.

24	Method of mining	Method of mining is given below:
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Mining System

To facilitate the space for in-pit dumping the OCP has been planned in two quarries i.e. Quarry-1 and Quarry-2. Total area to be quarried within the project area considering both Quarries 1 & 2 is 92 Ha. Quarry-1 is within the existing area of operation which is restricted in the eastern part of the property on the downthrown side of fault F2 with Salanpur A seam as the floor of the quarry. Quarry 2 is proposed as an extension of the existing quarry on the western end for which land acquisition and village rehabilitation is in process. Only a small portion of reserves are left in Quarry – 1.

As the PR has been approved for partial outsourcing, removal of top OB is only done departmentally while remaining OB removal, coal production and dispatch are outsourced. The enhancement in capacity will require more OB removal while the present departmental capacity is 0.65 M. Cum / year. Thus, more outsourced machinery and manpower will be deployed to augment capacity for mining of both OB and Coal.

Dumping Strategy

Presently the overburden material is transported partly to the external dump and partly to the internal dump. External dumps have an area of 20 Ha and a volume of 3.08 Million Cum OB can be accommodated, whereas internal dump has an area of 16 Ha and accommodates a volume of 4.0 Million Cum of OB.

The total volume of OB material that will be removed from the proposed OCP is now estimated to be 28.30 M Cum including 15.20 M Cum from Quarry-1 and 13.10 M Cum from Quarry- 2. OB is proposed to be dumped in the existing internal OB dump. No additional external OB dump has been proposed. Overburden of Quarry-2 will be accommodated in the void of Quarry-1 and further by heightening the OB dump by around 35m above surface.

Quarry -2 cannot be backfilled during its operation for maintaining the haul road in the floor of Salanpur Special Bottom seam. It is proposed that after the quarry operation is over around 8.70 M Cum of OB from the external dump and the heightened part of internal dump will be rehandled to back fill partly the void of Quarry -2.

25	Life of mine	4 (Four) years
26	Whether ambient air quality seasonal data has been documented. If so, from which season to which season and whether the results are within the prescribed limits	Yes Pre Monsoon Season (1 st April, 2012 to 23 rd June, 2012) Results are within prescribed limit
27	Whether the certificate of compliance of earlier EC from MoEF Regional Office has been obtained, if the proposal is for expansion.	Yes, Please refer Sl. No. 10
28	Details of O.B. i. External OB dumps	

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	ii. No of OB dumps	1 (one)		
	iii. Area	20.0 ha		
	iv. Height	35 m (max)		
	v. Quantity (in MCm)	7.0 M Cum		
	vi. Year of back filling			
	29 Details of Internal Dumps			
	i. Number of internal dumps	1 (one)		
	ii. Area	43.0 Ha (including 1.0 Ha of Top Soil dump)		
	iii. Height	Not more than +/- 5 m from ground level		
	iv. Quantity	23.98 million cubic meters		
30	Details of final Mine Voids	49.0 Ha of final void will be converted to lagoon and depth of 20 m (max)		
	i. Area			
	ii. Depth			
31	Details of Quarry:			
	i. Total quarry area :	91.0 Ha		
	ii. Backfilled quarry area ofha shall be reclaimed with plantation	43.0 Ha (including 1.0 Ha of Top Soil dump)		
	iii. A void of ha at a depth of m which is proposed to be converted into a water body	49.0 Ha and depth of 20 m (max)		
32	Details of Land usage	Please refer table below -		
	i. Pre-mining			
	ii. Post- Mining			
	iii. Core area			
SI No	Landuse Type	Present	At the end of mining	At mine closure
1	Excavated area including haul-road	36.00	49.00	Converted to lagoon
2	Backfilled Area (Active)	24.34	42.00	Covered by plantation
3	External OB Dump (Active)	20.00	20.00	Rehandled & Backfilled; area covered by plantation
4	Undisturbed area	65.37	33.41	23.00
5	Colliery Infrastructure/Built-up	3.0	5.90	5.90
6	Topsoil Dump	-	1.00	Covered by plantation
7	Coal depot	1.00	-	-
8	Road	1.0	1.60	1.60
9	Village	7.70	-	-
10	Plantation/ Greenbelt/Safety Zone	6.50	12.00	85.41
11	Lagoon	-		49.00
Total		164.91	164.91	164.91
33	Details of Forest issues	Forest land not involved		

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	i. Total forest area involved (in ha) for mining	Not Applicable
	ii. Status of Forest Clearance	Not Applicable
	iii. Is there any National Park, eco-sensitive Zones, within 10 km radius? If so, give the details.	Not Applicable
	iv. If the project is within 10 KM of radius of the wild life sanctuary, whether the Wild Life Management Plan has been prepared and approved. If so, pl give the status, date of approval with the budgetary provision.	Not Applicable
	v. Extent of forest land in the project (including safety zone and all types of forest land)(in ha)	Not Applicable
	vi. Total forest land for which Stage-1 FC is available (give area in ha), provide break up of this area in following format:	Not Applicable
	vi. Balance forest land for which Stage-1 FC is not available (give area in ha)	Not Applicable
34	Costs of the project :	
	i) Total capital Cost:	Project cost at inception was about Rs. 60.00 crores. Capital spent so far is Rs. 92.67 crores.
	ii) Cost of Production:	
	iii) Sale Price:	
	iv) CSR cost:	Rs. 100.00 Lakh
	v) R&R Cost:	Rs. 854.00 Lakh
	vi) No of PAFs:	34 households
	vii) Environmental Management cost	Annual Cost : Rs 163.35 Lakh per annum
35	Details of transportation of coal	
	i. In pit:	Coal is loaded by shovels at face and transported to the surface coal depot by colliery dumpers
	ii. Surface to siding:	Road transportation by 15 te dumpers
	iii. Siding to loading:	Payloaders are used for loading of coal onto wagons
36	Details of reclamation:	Afforestation plan covers total 85.41 ha area. Beside this 6.5 ha area is already under plantation. At the end of mining total 85.41 ha area will be under plantation.
	a. Total Afforestation plan shall be implemented covering an area ofHa at the end of mining. This will include:	
	i. Reclaimed external OB dump (in ha) :	20.0 Ha
	ii. internal dump (in ha),	42.0 Ha
	iii. Green belt (in ha)	-
	iv. Density of tree plantation (in no of plants)	1600 samplings per ha
	v. void (in ha) at a depth of (in m)which is proposed to be converted into water body	Void of 49.0 ha will be left as water body

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	vi. Others in ha (such as excavation area along ML boundary, along roads and infrastructure, embankment area and in township located outside the lease etc).	Please refer complete details of plantation tabulated below -						
S No.	Description	Land-use (Ha)						
		Plantation	Water Body	Public use	Undisturbed	Total		
1	Top-soil Dump	1.0				1.0		
2	External Waste Dump	20.0				20.0		
3	Excavation	42.0	49.0			91.0		
4	Road			1.6		1.6		
5	Built-up			5.9		5.9		
6	Afforestation	12.0				12.0		
8	Nallah	-	-	-	-	-		
9	Undisturbed	10.41			23.00	33.41		
Total		85.41	49.0	7.5	23.00	164.91		
III Legal Issues								
37	PI give details , if the proposal is under any investigation	No						
38	Any court cases pending. If so, please provide a list with details as annexure	No						
39	Any violation cases pending. If so, please provide a list with details as annexure	No						
40	Give details of actual coal production vis-à-vis sanctioned capacity since the inception of mine in following format :							
	Year	EC sanctioned capacity (MTPA)	Actual production(MTPA)	Excess production beyond the EC sanctioned capacity				
	2008-09	1.0	0.39	-				
	2009-10		0.66	-				
	2010-11		0.98	-				
	2011-12		1.39	0.39				
	2012-13		1.07	0.07				
	2013-14		0.84	-				
IV Public Hearing issues								
41	Date and Place of public hearing:	18.11.2008 at 12:30 hrs in the meeting hall of Salanpur Panchayat Samity, Salanpur, District: Burdwan, West Bengal						
42	Issues raised during Public Hearing and assurance given along with the financial provisions, if any, by the project proponent. (Please attach as an annexure in a tabular form.)	Please refer Annexure A						
V Consultant								
43	Name of the consultant who prepared the EIA/EMP	CMPDIL (A subsidiary of Coal India						

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	report	Ltd)
44	Whether the consultant has been accredited by the QCI and NABL and whether it is accredited with Quality Council of India (QCI) /National Accreditation Board of Education and Training (NABET) as per the MoEF OM dated 2nd December, 2009.	Yes
VI		
VI. Whether the project was considered by the IMG of Ministry of Coal for any irregularities. If so the no. and date of the show cause notice and the response of the MoC.		No

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