



Energy Conservation Measure implemented in 2006-2007



(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure Elimination of Belt Press System		Sector MINING			
Year to be filled by BEE			Technology IN HOUSE			
Description of the energy conservation measure: <p style="color: blue;">Some portion of Raw Coal from mines contains less than 150 micron size coal fines, which is screened and sent to a settling tank before washing. This fine coal was then pumped on to a system where the material was squeezed between two belts to dewater it and then it was transported by trucks to a settling pond. This was a costly affair. So to eliminate the system a pipe line was laid upto the pond and the fines is directly pumped into the pond. This has saved the power cost to run the belt press system and the transportation cost.</p>						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
			 <b style="color: red;">Eliminated Belt Press System			
Agency that executed the project (with complete address and email): IN HOUSE (Departmental)						
Total investment, Rs.: 15 Lakh			Year of implementation: 2006-07			
First year energy cost savings, Rs.: 54.61 Lakhs						
First year other savings, Rs.:						
On annual basis	kWh 000'	HSD (Ltrs)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before	240400	110000			Rs. 20	
Energy consumption after	0	0			Rs. 10	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...(In Lakh Rs.)	Rs. 6.01	Rs. 39.60			Rs. 10	
Company complete address: JINDALOPEN CAST COAL MINES, PO: DHAURABHATTA; Via - TAMNAR, Dist RAIGARH, CHATTISGARH. Pin - 496107.				We authorise Bureau to use this information for dissemination Signature Date		
Contact person who could be contacted for more information: Mr. P. S. DHILLON, V.P (COAL),						

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ID to be filled by BEE	Title of the measure Modification of Middling Belt Conveyor		Sector MINING		
Year to be filled by BEE			Technology IN HOUSE		
Description of the energy conservation measure: At the discharge end of the Middling belt conveyor a small belt was running (7.5 KW), it was modified and a chute was designed, which directly delivered the discharge to the main conveyor.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): IN HOUSE (Departmental)					
Total investment, Rs.: 0.6 Lakhs			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 2.625 Lakh					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	105000				
Energy consumption after	0				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ... (In Lakhs Rs.)	Rs. 2.625				
Company complete address: JINDALOPEN CAST COAL MINES, PO: DHAURABHATTA; Via - TAMNAR, Dist RAIGARH, CHATTISGARH. Pin - 496107.				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. P. S. DHILLON, V.P (COAL),				Signature	
				Date	

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ID to be filled by BEE	Title of the measure Power Cost Reduction (Thickner – II overflow pump Motor modification)		Sector MINING		
Year to be filled by BEE			Technology IN HOUSE		
Description of the energy conservation measure: The Thickner No. –2 (Settling tank for the fine coal) was having two pumps with 160 KW & 185 KW Motors. In the year 2006-07 both the motors were replaced by a single pump & motor of 225 KW, by which a great amount of power was saved.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Picture Showing 2 Pumps			Picture Showing only 1 Pump		
Agency that executed the project (with complete address and email): IN HOUSE (Departmental)					
Total investment, Rs.: 15 Lakhs			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 26.28 Lakh					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	3022200				
Energy consumption after	1971000				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ... (In Lakhs Rs.)	Rs. 26.28				
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Contact person who could be contacted for more information: Mr. P. S. DHILLON, V.P (COAL),				Signature	
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ID to be filled by BEE	Title of the measure PGP Production (Modification in Production of PGP)		Sector MINING		
Year to be filled by BEE			Technology IN HOUSE		
Description of the energy conservation measure: Earlier in the year 2005, "Production Gas Plant" Coal was taken out from the washed coal bunker. Then it was thought to reduce the cost of PGP coal production. The existing circuit was modified for supply of PGP coal without washing. 1) A belt conveyor was installed. 2) Screen discharge chute modified. 3) A bunker was constructed.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
			 <b style="color: red;">New PGP Raw Coal Bunker		
Agency that executed the project (with complete address and email): IN HOUSE (Departmental)					
Total investment, Rs.: 40 Lakhs			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 16.25 Lakh					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	1300000				
Energy consumption after	650000				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ... (In Lakhs Rs.)	Rs. 16.25				
Company complete address: JINDALOPEN CAST COAL MINES, PO: DHAURABHATTA; Via - TAMNAR, Dist RAIGARH, CHATTISGARH. Pin - 496107.				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. P. S. DHILLON, V.P (COAL),				Signature	
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ID to be filled by BEE	Title of the measure Washery –II deshale clean coal (Modification in Process Circuit)	Sector MINING			
Year to be filled by BEE		Technology IN HOUSE			
Description of the energy conservation measure: The clean coal after deshaling was routed through 5 belt conveyors, 600 meters long and 2 deshliming screens to the crushed coal bunker and finally it was fed to the “Heavy Media Cyclone” tank. This circuit was modified and a small belt conveyor of about 30 Mtrs length was installed and the material is directly fed to the “Heavy Media Cyclone” tank.. This saved the operation cost of so many belt conveyors and magnetite consumption was also reduced.					
Picture/ sketch/ drawing before modification <small>(if available)</small>			Picture/ sketch/ drawing after modification		
Agency that executed the project (with complete address and email): IN HOUSE (Departmental)					
Total investment, Rs.: 0.6 Lakhs			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 7.225 Lakh					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	578000				
Energy consumption after	289000				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ... (In Lakhs Rs.)	Rs. 7.225				
Company complete address: JINDALOPEN CAST COAL MINES, PO: DHAURABHATTA; Via - TAMNAR, Dist RAIGARH, CHATTISGARH. Pin - 496107.				We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr. P. S. DHILLON, V.P (COAL),				Signature	
				Date	

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ID to be filled by BEE	Title of the measure Reducing Duping Lead & Lift		Sector MINING		
Year to be filled by BEE			Technology IN HOUSE		
Description of the energy conservation measure: Overburden from the mine is dumped on to the dumping ground whose distance (Lead) is gradually increases as the coal face progresses forward. At the same time the height (Lift) of the dumper also increases day by day. To reduce this 'lead' and 'lift' in pit dumping started and that is the regular practice now.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Picture Showing Mining & outside Duping			Picture Showing Inpit Duping		
Agency that executed the project (with complete address and email): IN HOUSE (Departmental)					
Total investment, Rs.: NIL			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 908.53 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	HSD Oil (kL)	Other
Energy consumption before				5246622	
Energy consumption after				2623000	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ... (In Lakhs Rs.)				908.53	
Company complete address: JINDALOPEN CAST COAL MINES, PO: DHAURABHATTA; Via - TAMNAR, Dist RAIGARH, CHATTISGARH. Pin - 496107.				We authorise Bureau to use this information for dissemination	
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ID to be filled by BEE	Title of the measure Replacing diesel pumps by Electrical driven Pumps		Sector MINING		
Year to be filled by BEE			Technology IN HOUSE		
Description of the energy conservation measure: To drain mine water Diesel Pumps were used. Now Electrical driven pumps are used to drain out huge quantity of water from mine.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): IN HOUSE (Departmental)					
Total investment, Rs.: 15 Lakhs			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 36.01 Lakhs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	HSD Oil (kL)	Other
Energy consumption before				100	
Energy consumption after				0	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ... (In Lakhs Rs.)				36.01	
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