


Annexure – IX

(Compliance report of Forestry Clearance

**Compliance of conditions of stage-II clearance for 101.41 Ha forest land of KDH
OCP (F.NO. 8-79/90-FCdated 01.07.1996)**

S.No	Condition	Compliance									
i	Legal Status of forest land shall remain unchanged	No change in legal status of land has been done									
ii	The compensatory afforestation shall be raised equivalent non-forest land at project cost. The land identified for compensatory afforestation will be notified as protected forest under the Indian Forest Act 1927 and transfer of title of same in favour of Forest Department in revenue records will got done within a period of six months.	<p>The cost of Compensatory afforestation has been deposited as per details below :-</p> <table><tr><th>Item</th><th>Amount</th></tr><tr><td>Compensatory Afforestation</td><td>Rs1449300.36</td></tr></table> <p>The non forest land has been given in Gumla district by CCL as compensatory land. The land has already been notified as forest land vide forest office order no 7E dated 3.01.97.</p>	Item	Amount	Compensatory Afforestation	Rs1449300.36					
Item	Amount										
Compensatory Afforestation	Rs1449300.36										
iii	Fencing, protection and regeneration of the safety zone area shall be carried out at the project cost. Further enrichment plantation over degraded forest land equivalent to one and half times of safety zone area will be carried out at project cost.	<p>The cost of afforestation on degraded forest land including Fencing, Protection and regeneration of safety zone area and forest produce has been deposited as per details below :-</p> <table><tr><th>Item</th><th>Amount</th><th>details</th></tr><tr><td>Regeneration and fencing, protection of safety zone.</td><td>Rs1215000 + Rs<u>521416.47</u> Total Rs1736416.47</td><td>Cheque no 989961 dated 27.11.1993 and cheque no 450876 dated 21.05.1996</td></tr><tr><td>NPV</td><td>Rs14704450</td><td></td></tr></table>	Item	Amount	details	Regeneration and fencing, protection of safety zone.	Rs1215000 + Rs <u>521416.47</u> Total Rs1736416.47	Cheque no 989961 dated 27.11.1993 and cheque no 450876 dated 21.05.1996	NPV	Rs14704450	
Item	Amount	details									
Regeneration and fencing, protection of safety zone.	Rs1215000 + Rs <u>521416.47</u> Total Rs1736416.47	Cheque no 989961 dated 27.11.1993 and cheque no 450876 dated 21.05.1996									
NPV	Rs14704450										
iv	Mining over area is to be reclaimed/ restored after mining/quarrying is over as per the reclamation plan.	<p>The mined out area is being backfilled and reclaimed in such a manner to stabilize the dumps by proper benching, grading hence maintaining the angle of repose less than 28 degree.</p> <p>Project is carrying out mining /reclamation work as per EMP/mining plan.</p> <p>Land Broken = 353 ha</p> <p>Land used in infrastructure = 179.82 Ha</p> <p>Technically Reclaimed area = 198 Ha</p>									

		<p>(approximately) Biologically reclaimed area = 185.88 Ha No of plantation on OB dumps ~ 4,16,600</p>  <p>A view of ongoing reclamation in KDH Project</p>
v	Rehabilitation of the oustees shall be done as per the scheme and no forest land will be utilized for this purpose.	For rehabilitation no forest land had been used. 47 families affected by the project have already been shifted ad rehabilitation has been done providing facilities of school, drinking water, hospital etc
vi	Free fuelwood/alternate energy source will be provided to the labourers working at project site.	Previously free supply of coal was being made. Now keeping environmental view in lieu of coal, CCL monthly reimburses cost of one Domestic LPG to its labors and staff working on the project site.
vii	The forest shall not be used for any purpose other than that specified in the proposal.	The land is being used for mining and mining related activities only.

vii	This approval is subject to environmental clearance.	The project has obtained following EC from MOEF&CC. J-11015/35/84-Env.5/1A.II(M)dated 27/10/1993 J-11015/311/201-1A.II(M) dt.31/01/2015
ix	Any other condition that the state government may impose from time to time.	Any other condition that may be imposed from time to time will be complied to



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Project Officer
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Annexure Plantation Photographs













**Compliance of conditions of stage-II clearance for 28.95 Ha forest land of KDH
OCP (F.NO. 8-79/1990-FC(Vol I) dated 26th Oct 2009)**

S.No	Condition	Compliance												
1	Legal Status of forest land shall remain unchanged	No change in legal status of land has been done.												
2a	Compensatory Afforestation shall be raised and maintained by State Forest Department at project Cost	<div>The cost of Compensatory afforestation and cost of forest produce has been deposited as per details below :-</div> <table><tr><th>Item</th><th>Amount</th><th>Details</th></tr><tr><td>Compensatory Afforestation</td><td>Rs 42,83,572</td><td>DD no 079234 dated 23.10.2006</td></tr><tr><td>Cost of Forest Produce</td><td>Rs 4,22,961</td><td>DD no 593513 dated 23.10.2006</td></tr></table>	Item	Amount	Details	Compensatory Afforestation	Rs 42,83,572	DD no 079234 dated 23.10.2006	Cost of Forest Produce	Rs 4,22,961	DD no 593513 dated 23.10.2006			
Item	Amount	Details												
Compensatory Afforestation	Rs 42,83,572	DD no 079234 dated 23.10.2006												
Cost of Forest Produce	Rs 4,22,961	DD no 593513 dated 23.10.2006												
2b	Fencing, protection and regeneration of the safety zone area (100 m strip all along the outer boundary of the mining lease area as recommended by the state government) shall be done at the project cost. Besides this, Afforestation of the degraded forest land to be selected else where, measuring 1.5 times the area under safety zone shall also be done at project cost	<div>The cost of afforestation on degraded forest land including Fencing, Protection and regeneration of safety zone area has been deposited as per details below :-</div> <table><tr><th>Item</th><th>Area</th><th>Amount</th><th>Details</th></tr><tr><td>Regenerati on and fencing, protection of safety zone.</td><td>1.95 Ha.</td><td>14,76,932</td><td>DD no . 079235 dated 23.10.06</td></tr><tr><td>NPV</td><td>28.95 Ha.</td><td>2,20,40,592</td><td>DD no . 079236 dated 23.10.06</td></tr></table>	Item	Area	Amount	Details	Regenerati on and fencing, protection of safety zone.	1.95 Ha.	14,76,932	DD no . 079235 dated 23.10.06	NPV	28.95 Ha.	2,20,40,592	DD no . 079236 dated 23.10.06
Item	Area	Amount	Details											
Regenerati on and fencing, protection of safety zone.	1.95 Ha.	14,76,932	DD no . 079235 dated 23.10.06											
NPV	28.95 Ha.	2,20,40,592	DD no . 079236 dated 23.10.06											

2c	<p>where ever possible and technically feasible the user agency shall undertake the afforestation measures in the blanks within the lease area, as well as along the roads outside the lease areas diverted under this approval in consultation with the state forest department at the project cost</p>	<p>Project has done plantations at following places:</p> <p>Within mining lease :-</p> <ol style="list-style-type: none"> 1) In blanks: 28250 no. plants in 11.30 Ha 2) Haul roads: 6150 no. plants on 2 Km road <p>Outside mining lease :-</p> <ol style="list-style-type: none"> 1) Colony roads : 3600 plants (3.60 Km) 2) Along KDH railway track (siding) : 2000 plants (1 Km) <div data-bbox="699 522 1406 886" data-label="Image"> </div> <div data-bbox="690 900 1414 1354" data-label="Image"> </div> <div data-bbox="708 1367 1395 1766" data-label="Image"> </div>
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3 (i)	Proper mitigative measures to minimize soil erosion and choking of streams shall be prepared and implemented	<p>Project has taken mitigative measures to minimize soil erosion and choking of streams in accordance with the Scientific study of soil erosion and preventive measure by Environment Division, CMPDI.</p> <ol style="list-style-type: none"> 1) 4 numbers of sumps(total capacity 320000 m³) to serve as sedimentation ponds with high hydraulic retention time have been developed in mine to settle all the suspended particles. 2) Plantation on the OB dumps to prevent soil erosion. <div data-bbox="654 577 1378 1043" data-label="Image"> </div> <div data-bbox="654 1043 1378 1392" data-label="Image"> </div> <p>Sump and plantation on dumps to minimize choking of streams and soil erosion, respectively</p>
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3(ii)	Planting of adequate draught hardy plant species and sowing of seeds to arrest soil erosion.	<p>A total of approximately 4,16,000 draught and hardy plants have been planted in about 168 Ha of reclaimed area of KDH OCP. More details in Annexure 1.</p> 
3(iii)	Construction of check dams, retention/toe walls to arrest sliding down of the excavated material along the contour.	<p>Around 400 m of retention/toe walls have been constructed to arrest the sliding down of the excavated material along the toe of dump.</p>  <p>Retention/toe wall at bottom of the OB dumps/ excavated material</p>

3(iv)	<p>The area shall be reclaimed keeping in view the international practice of stabilizing the dumps by grading , benching so that angle of repose(normally less than 28 at any given place) are maintained.</p>	<p>The mined out area is being backfilled and reclaimed in such a manner to stabilize the dumps by proper benching, grading hence maintaining the angle of repose less than 28 degree.</p> <p>And the reclamation activity is being taken of as per the approved environment management plan prepared by CMPDI.</p>  <p>Plantation on slopes</p>
3(v)	<p>The soil management plan should be strictly adhered to.</p>	<p>1) Top soil is piled in 2m height stacks. 2) Grass will be planted on the top of the stacks once sufficient amount of top soil is collected.</p>  <p>Top soil Stacking site</p>
4	<p>The forest land shall not be used for any purpose other than that specified in the proposal.</p>	<p>The land is being used for mining and mining related activities only.</p>

5	The approval under the Forest (Conservation) Act, 1980 is subject to clearance under the Environment (protection) Act 1986 and any other requisite clearances under any Act, rules etc.	The project has obtained EC from MOEF&CC (J-11015/311/201-1A.II(M) dt.31/01/2015).
6	The user agency will make arrangement for free supply of coal to labourers and staff working on the project site as to avoid any pressure on the adjacent forest areas.	Previously free supply of coal was being made. Now keeping environmental view in lieu of coal, CCL monthly reimburses cost of one Domestic LPG to its labourers and staff working on the project site.
7	The period forest clearance under the Forest (Conservation) Act 1980 will be 20 years subject to possession of valid lease by User Agency under the MMDR Act, 1957 or co-terminus with the mining lease whichever is earlier.	The period of forest diversion under the forest (conservation) Act 1980 may be treated as 30 years.

8	<p>Demarcation of the mining lease will be done on the ground at project cost using four feet high reinforced cement concrete pillars with serial numbers. Forward & back bearings and distance from pillars to pillars.</p>	<p>User agency has demarcated the mining lease area with – 50 nos. of 4 feet high RCC pillars with serial nos., forward and back bearing and distance from pillar to pillar. Forest Range officer, Mandar inspected the demarcations of mining lease and found satisfactory and report submitted to the office of DFO Ranchi, in May 2015.</p>  <p>Concrete pillar for demarcation of mining lease</p>
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9	Mining /reclamation schedule shall be implemented by the user agency at their cost as per environmental management plan/phased programme.	<p>Project is carrying out mining /reclamation work as per EMP/mining plan.</p> <p>Land Broken = 353 ha</p> <p>Land used in infrastructure = 179.82 Ha</p> <p>Technically Reclaimed area = 198 Ha (approximately)</p> <p>Biologically reclaimed area = 185.88 Ha</p> <p>No of plantation on OB dumps ~ 4,16,600</p>  <p>A view of ongoing reclamation in KDH Project</p>
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The user agency shall also take up study on soil erosion / soil flow from the over burden areas with the help of GIS in consultation with the forest department.

Scientific studies of soil erosion and preventive measures for KDH OCP (4.5 MTPA) of CCL has been completed by Environment Division, CMPDI.

The report has been submitted in the office of DFO Ranchi.

CMPDI

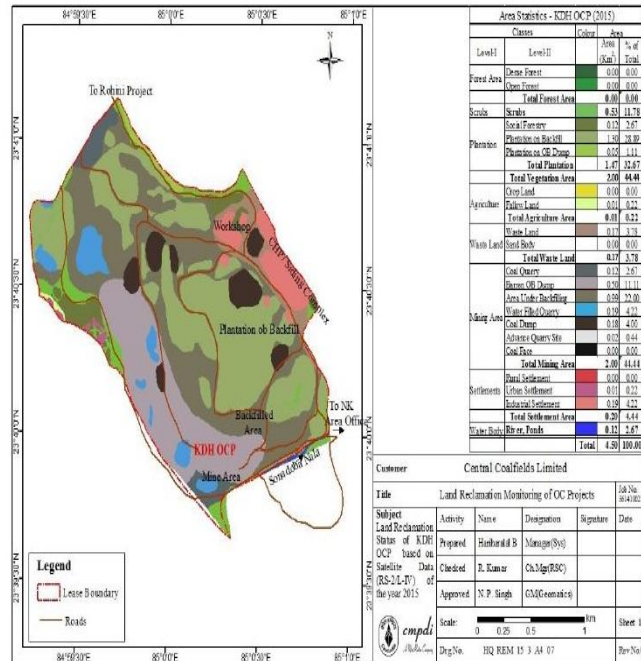



Plate - 3

11	<p>The user agency shall take up de-silting of the village tanks within five km area from the mine lease boundary as a CSR so as to mitigate the impact of siltation of such tanks if any.</p>	<p>Project has identified “Khalari Pond” located in Khalari for de-silting process. The de-silting and cleaning of pond has been done during summer 2017.</p>  <p>Khalari Pond, Station Road Khalari</p>
12	<p>Any other condition that the state government or the Chief Conservator of Forest 9(Central). Regional office, Bhubaneshwar may impose from time to time in the interest of conservation, protection or development of forests.</p>	<p>Any other condition that may be imposed from time to time will be complied to.</p>

Annexure-1

Name of Project	Year of plantation	Area	Category of land	Nos. of plants planted	Main species
KDH OCP	1992-'93	31.00 Ha.	O.B.Dump	72,975	Acacia, Gamhar, Sisham, Subabul, Karanj, Kathsagwan, Chakundi, Eucalyptus, Ber, Amla, Emli, Khair, Babul, Bamboo, Menzium, etc.
	1994-'95	1.00 Km.	Avenue (along railway track)	2,000	
	1998-'99	20.05 Ha. 2.00 Km.	O.B .Dump Avenue (along haul road)	51,125 6'510	
	2000-'01	18.00 Ha. 9.30 Ha. 0.60 Km.	O.B.Dump Plain land Avenue (colony)	45,000 23,250 2'400	
	2001-'02	4.00 Ha.	O.B.Dump	10'000	
	2002-'03	4.00 Ha.	O.B.Dump	10'000	
	2005-'06	20.00 Ha.	O.B.Dump	50,000	
	2006-'07	5.00 Ha.	O.B.Dump	12,500	
	2007-'08	4.00 Ha.	O.B.Dump	10,000	
	2008-'09	6.00 Ha.	O.B.Dump	15,000	
	2012-'13	33.00 Ha	O.B.Dump	82,500	
	2014-15	23.00 Ha	O.B Dump	57,500	
	2016-17	2.00 Ha 3.0 km	Colony + blanks Road side	5000 1200	
Total		168.05 Ha. + 11.30 Ha. + 6.60 Km.	O.B. Dump / Plain land / Avenue	4,56,960	



(Project officer)

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Annexure 2 Plantation Photographs







