

hRef. No.: MCL/BA/PO/KOCPE&F/2022-23/74

Date: 03.10.2022

To

The Divisional Forest Officer,  
Sundargarh Division,  
Sundargarh

**Subject: Submission of reply to the Essential Details Sought in respect of diversion proposal of 134.69 Ha of forest land for Kulda Expansion OCP of Basundhara Area, MCL.**

Ref – 1.) Our letter No. – MCL/GM/BA/E&F/2021-22/ES-45b/190, date – 29.11.2021.

2.) Your Letter No. – 6422/4F (Misc)-2021, Date – 16.12.2021.

Respected Sir,

With reference to the letter cited above, the short coming found in the diversion proposal has been complied herewith. The details furnished are given below:

**1. Tree enumeration list of both forest & non-forest land has not submitted.**

The tree enumerated is in land of tropical dry deciduous Forest in degraded condition. The report comprises of (Sal) Shorea robusta (Asan) Terminalia tomentosa (Kendu) Diospyros melanoxylon (Char) Buchanania lanzan (Mahul) Madhuca indica (Bheru) Chloroxylon swietenia (Palas) Butea monosperma (Kurei) Holarrhena antidysenterica (Dhatki) Woodfordia fruticosa (Khakada) Casearia elliptica/tomentosa (Sidha) Lagerstroemia parviflora (Amla) Emblica officinalis (Kochila) Strychnos nux-vomica (Dharua) Anogeissus Latifolia and others. The density is 0.2 for both Reseve and Revenue Forest. A total of 23635 nos. of trees in Forest Area and 363 nos. of trees in Govt. Non-Forest Area have to be felled during the commencement of the project in a phased manner. In compliance to the above, the duly authenticated tree enumeration list of both forest & non-forest land is being submitted in **Annexure-I** in Hard & Soft copy.

**2. Cost Benefit analysis as per latest guideline has not submitted.**

The Cost Benefit analysis report as per the latest guideline has been prepared. The cost benefit ratio for the proposed Kulda Expansion OCP (21.00 MTPA) comes to an estimate of 1:76.04. The report is hereby submitted in **Annexure-II** in Hard & Soft copy.

**3. Compensatory afforestation land along with DGPS survey with KML file has not submitted.**

The land for Compensatory Afforestation was issued by the DFO, Sundargarh, vide no.-1663, Date – 28.03.2022, where the area of 305.59 Ha of Punjipahad RF (131.54 Ha), Pandripani RF (64.10 Ha), Panikholia RF (56.39Ha), & Sidarmunda RF (53.56 Ha) of Gaplapur range was allocated for CA against the diversion proposal of 134.69 Ha of Forest Land for Kulda Expansion OCP. The actual area after DGPS is 311.848 Ha which has been communicated by ORSAC to DFO Sundargarh vide letter no. – ORSAC/DGPS-ED/1084/2022/3421(2), Date- 15.09.2022. The copy of authenticated DGPS Survey with KML file has been attached in **Annexure-III** in hard & soft copy. It is requested to provide the CA Scheme for the allotted land for further course of action.

**4. As per land schedule the total area of forest, non-forest & tenancy land is not correct.**

The details of area under existing land use of Kulda OCP (21.00 MTPA) in a total area of 634.205 Ha is given below:



Table-1

EXISTING LAND USE OF KULDA OCP (21MTy), REVISION -3 MINING PLAN_694.605 Ha					
Kulda OCP	S.No.	Particulars	Forest (Ha.)	Govt Non-Forest (Ha.)	Total (Ha)
A. Mine Lease Area	1	Excavation Area	187.155	134.755	321.910
	2	OB Dump Area	4.120	156.382	160.502
	3	Infrastructure	21.837	104.320	126.157
	4	Embankment	10.408	7.151	17.559
	5	Other area incl Safety Zone & Road/Nallah Diversion	4.370	3.707	8.077
<b>Total Mine Lease Area (A)</b>			<b>227.89</b>	<b>406.315</b>	<b>634.205</b>
B. Outside Mine Lease Area	1	Residential colony	0	37.5	37.5
	2	Rehabilitation Site	0	22.9	22.9
<b>Total outside mine lease area (B)</b>			<b>0</b>	<b>60.4</b>	<b>60.4</b>
<b>Total Project Area (A+B)</b>			<b>227.89</b>	<b>466.715</b>	<b>694.605</b>

The details of additional land required for Kulda Expansion OCP (21.00 MTPA) in an additional area of 295.62 Ha is given below:

Table-2

ADDL. LAND REQD. FOR KULDA EXPN. OCP (21MTy), REV-4 MINING PLAN_295.62 Ha					
Kulda Expn. OCP	S.No.	Particulars	Forest (Ha)	Govt. Non Forest (Ha)	Total (Ha)
A. Mine Lease Area	1	Quarry excavation area	110.92	107.15	218.07
	2	Infrastructure including Safety Zone (7.5m around mine boundary) and Embankment	9.84	49.28	59.12
	3	External Ob Dump	13.93	4.5	18.43
<b>Total mine lease area required (A)</b>			<b>134.69</b>	<b>160.93</b>	<b>295.62</b>
B. Outside Mine Lease Area	1	Residential colony	0	0	0
	2	Rehabilitation site	0	0	0
<b>Total outside mine lease area (B)</b>			<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Project Area (A+B)</b>			<b>134.69</b>	<b>160.93</b>	<b>295.62</b>

The land schedule has already been submitted with the forest diversion application in six copies. The summary of land schedule for the proposed additional land requirement for Kulda Expansion OCP is as given below:

Table-3

S.No.	Village	Forest	Govt. Non-Forest	Tenancy	Grand Total
1	Kulda	21.97	71.36	110.90	204.23
2	Bankibahal	12.71	26.69	52.61	92.01



3	Balinga	0.00	21.24	2.83	24.07
4	Tumulia	88.49	40.56	71.48	200.53
5	Siarmal	3.97	0.00	0.00	3.97
6	Lalma	205.69	0.00	0.00	205.69
Total Area in Ac.		332.83	159.85	237.82	730.50
Total Area in Ha.		134.69	64.69	96.24	295.62

The land schedule of 295.62Ha has been further bifurcated component wise for mining and related activities. The component wise break up of the proposed additional land is as given below:

Table-4

S.No.	Component	Forest	Govt. Non-Forest	Tenancy	Grand Total
1	Mining	274.09	105.36	159.42	538.87
2	Safety Zone	24.16	43.36	77.99	145.51
3	Embankment	0.16	11.13	0.41	11.70
4	OB Dump	34.42	0.00	0.00	34.42
Total in Ac		332.83	159.85	237.82	730.50
Total in Ha		134.69	64.69	96.24	295.62

It is to inform that 8.52 Ha forest land has been re-diverted from existing Kulda OCP to Basundhara Washery. Hence, 8.52 Ha has to be subtracted from the infrastructure area of existing lease. The details of the total required area including existing & proposed after removal of area re-diverted to Basundhara Washery has been provided below:

Table-5

		APPROVED LAND OF KULDA OCP 21 MTY, REVISION-3			INCREMENTAL LAND REQUIRED FOR KULDA EXPN OCP, 21 MTY			APPROVED LAND OF KULDA OCP 21 MTY, (REVISION-3) + INCREMENTAL LAND REQUIRED FOR KULDA EXPN OCP, 21 MTY			TOTAL LAND AS PER MP&MCP OF KULDA EXPANSION OCP (REVISION-4) = APPROVED LAND OF KULDA OCP 21 MTY(REVISION-3) + INCREMENTAL LAND REQUIRED FOR KULDA EXPN OCP 21 MTY - 8.52 HA REDIVERTED FOREST LAND FROM INFRASTRUCTURE AREA OF KULDA		
Sl. No.	Particulars	A			B			A + B			(A + B) - 8.52		
		Land in ha			Land in ha			Land in ha			Land in ha		
		Forest	Non-forest	Total	Forest	Non-forest	Total	Forest	Non-forest	Total	Forest	Non-forest	Total
<b>A. MINE LEASE AREA</b>													
1	Quarry excavation area	187.16	134.755	321.91	110.92	107.15	218.07	298.075	241.905	539.98	298.075	241.905	539.98
2	Infrastructure including Safety zone (7.5m around mine boundary), road/nallah diversion, Embankment.	36.615	115.178	151.793	9.84	49.28	59.12	46.455	164.458	210.913	(46.455-8.52) = 37.935	164.458	202.393
3	External OB dump	4.12	156.382	160.502	13.93	4.5	18.43	18.05	160.882	178.932	18.05	160.882	178.932
	<b>Total Mine Lease area required</b>	<b>227.89</b>	<b>406.315</b>	<b>634.205</b>	<b>134.69</b>	<b>160.93</b>	<b>295.62</b>	<b>362.58</b>	<b>567.245</b>	<b>929.825</b>	<b>354.06</b>	<b>567.245</b>	<b>921.305</b>
<b>B. OUTSIDE M.L AREA</b>													
1	Residential colony	0	37.5	37.5	0	0	0	0	37.5	37.5	0	37.5	37.5
2	Rehabilitation site	0	22.9	22.9	0	0	0	0	22.9	22.9	0	22.9	22.9
	<b>Total Outside Mine Lease Area</b>	<b>0</b>	<b>60.4</b>	<b>60.4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60.4</b>	<b>60.4</b>	<b>0</b>	<b>60.4</b>	<b>60.4</b>
	<b>Total Project area</b>	<b>227.89</b>	<b>466.715</b>	<b>694.605</b>	<b>134.69</b>	<b>160.93</b>	<b>295.62</b>	<b>362.58</b>	<b>627.645</b>	<b>990.225</b>	<b>354.06</b>	<b>627.645</b>	<b>981.705</b>



The diversion proposal is based on the land requirement as shown in table no. – 2, 3 & 4. This clearly shows that there is no difference in the land schedule and the proposed additional land requirement. Hence, it is submitted that there is no difference in the proposal and the land schedule regarding land requirement. The only difference that is arising, is because of diversion of 8.52 Ha out of 227.89 Ha in the existing land use of Kulda OCP to Basundhar Washery which has been clarified in table no.-5. Hence, the total Land (including the existing land) required for Kulda Expansion OCP (21 MTPA) as per approved Mining Plan in Revision – 4 is as given below:

**Table-6**

<b>TOTAL LAND REQUIRED FOR KULDA EXPN. OCP (21MTy) , MINING PLAN REV -4_981.705Ha</b>					
Kulda Expn. OCP	S.No.	Particulars	Forest (Ha)	Govt. Non Forest (Ha)	Total (Ha)
A. Mine Lease Area	1	Quarry excavation area	298.075	241.905	539.98
	2	Infrastructure including Safety Zone (7.5m around mine boundary) and Embankment.**	37.935	164.458	202.393
	3	External Ob Dump	18.05	160.882	178.932
	<b>Total mine lease area required (A)</b>		<b>354.06</b>	<b>567.245</b>	<b>921.305</b>
B. Outside Mine Lease Area	1	Residential colony	0	37.50	37.50
	2	Rehabilitation site	0	22.90	22.90
	<b>Total outside mine lease area (B)</b>		<b>0</b>	<b>60.40</b>	<b>60.40</b>
	<b>Total Project Area (A+B)</b>		<b>354.06</b>	<b>627.645</b>	<b>981.705</b>

\*\* 8.52 Ha forest land re-diverted from existing Kulda OCP to Basundhara washery. Hence, 8.52 ha have been subtracted from infrastructure area.

The present diversion proposal is for 134.69 Ha which is fresh in nature and there is no difference in the land schedule (attached in **Annexure-V**) and the proposal. Hence, it is submitted to consider the forest diversion proposal of 134.69Ha for Kulda Expansion OCP (21.00 MTPA) for further onward processing.

#### **5. Additional Documents submitted by PP w.r.t. the Diversion Proposal**

##### **a. Mining Plan:**

The Mining Plan has been revised from 18.75 MTPA to 21.00 MTPA, as Kulda OCP has obtained an Environmental Clearance for a capacity of 21.00 MTPA, issued by MoEF&CC vide no. – F No. J-11015/10/1995-IA-II(M), Date – 24.05.2022, (copy enclosed in **Annexure-IV**). Hence the revised and authenticated Mining Plan (21.00 MTPA\_Revision-4) with respect to Kulda Expansion OCP is being submitted in **Annexure-VI**.

##### **b. Authorization Certificate:**

The Project Officer of Kulda OCP has changed. The present authorized Project Officer of Kulda OCP is Shri. Manoranjan Das. The Authorization Certificate has been attached in **Annexure-VII** and now onwards Shri Manoranjan Das, the Project Officer of Kulda OCP will make all applications related to Forest Clearance on behalf of MCL.



**c. Existing Land use Details:**

The Existing land use of 227.89 Ha, which was diverted vide no. – F.No.-8-176/1997-FC, Date – 08.08.2007 is as provided below:

Purpose	Break up of existing land use (Ha)				Break up of diverted forest land after re-diversion (change in land use) (Ha)			
	Revenue Forest	Classified Forest	Reserve Forest	Total	Revenue Forest	Classified Forest	Reserve Forest	Total
Mining	136.435	45.71	5.01	187.155	136.435	45.71	5.01	187.155
OB Dump	4.12	0	0	4.12	4.12	0	0	4.12
Infrastructure	21.837	0	0	21.837	13.317	0	0	13.317
Embankment	10.408	0	0	10.408	10.408	0	0	10.408
Road	3.436	0	0	3.436	3.436	0	0	3.436
Diversion								
Nallah	0.935	0	0	0.935	0.935	0	0	0.935
Diversion								
<b>Total</b>	<b>177.171</b>	<b>45.71</b>	<b>5.01</b>	<b>227.891</b>	<b>168.651</b>	<b>45.71</b>	<b>5.01</b>	<b>219.371</b>

The 8.52 Ha out of already diverted 227.89 Ha forest area for Kulda OCP (existing) has been re-diverted to Basundhara Washery, vide no.- 8-176/1997-FC (Vol.), date – 11.03.2019 (Copy enclosed in **Annexure-VIII**). The mine has not totally de-coaled its existing land. The mine has uppermost Lajkura seam which is being excavated leaving Rampur and Ib seam in the lower.

Excavation is under progress in all the three seams, but backfilling is concurrently being done on the de-coaled area as well as used to increase the existing dump height as per the approved Mining Plan. Therefore after final decoaling, backfilling and biological reclamation will be carried out as per the approved Mining Plan of 21 MTPA (including 134.69 Ha of Forest Land) and then the process to handover the reclaimed area to Forest Department will be started. Further the status of reclamation as on date – 03.10.2022 is as follows:

S.No.	Description of land use	Area (Ha)
1	Area Excavated	277.91
2	Area Decoaled	128.06
3	Backfilled Area	128.06
4	Biologically reclaimed Backfilled Area	13.65

**d. The status of compliance of Stage-II Forest Clearance of 227.89 Ha:**

The area of 8.52 Ha which was re-diverted out of 227.89 Ha has only the Stage-I clearance, and stage –II clearance is yet to be obtained, hence the status of stage-II compliance of 227.89 (F.No.- 8-176/1997-FC, Date – 08.08.2007) Ha is being submitted in **Annexure-IX**.

**e. Status of maintenance of Safety Zone:**

Infrastructure including Safety Zone (7.5m around mine boundary) and Embankment excluding 8.52 Ha is in an area of 28.095 (provided in table-6). The safety zone area is retained for future expansion. A total of 18414 nos. of plants have been planted over safety zone area and thick lush green belt has been developed which is being maintained as green cover over the safety zone area (7.5m around the mine boundary).



Besides this, compensatory afforestation has already been raised in 459.01 Ha at the project cost for Kulda OCP in Kumkani R.F. (455.78Ha) & Dhangergudi R.F. (3.23Ha) including Safety Zone.

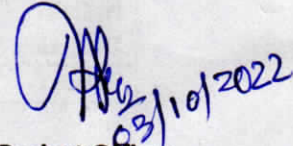
**f. Coal Evacuation Plan:**

The undersigned hereby submits the coal evacuation plan (in **Annexure – X**) for mining activity as proposed for 21.00 MTPA in 295.62 Ha, as per the approved Mining Plan attached in **Annexure-VI**. The mine has already obtained Environmental Clearance for a production capacity of 21.00 MTPA and the proposed area shall be utilized for a production capacity of 21.00 MTPA for 11 years. It is undertaken that the environmental pollution control measures will be taken as per the EIA/EMP report for the 21.00 MTPA capacity.

Encl. As Above. (Six sets of hard & soft copy (DVD))

Thanking you.

Yours faithfully,



Project Officer  
Kulda OCP, Basundhara Area  
Mahanadi Coalfields Limited

**Copy to:**

1. General Manager (E&F), MCL HQ – For kind information.
2. GM, Basundhara Area – For kind information.
3. Staff Officer (E&F), Basundhara Area.
4. Office Copy