



**OFFICE OF THE DIVISIONAL FOREST OFFICER,
SUNDARGARH FOREST DIVISION**

Phone No-06622-272243, E-Mail- dfo.sundargarh@odisha.gov.in



No. 6419 /4F (Misc) Dt. 29/10/2025.

To,

The Project Officer,
Kulda OCP Basundhara Area, (MCL)
Sundargarh, Odisha-770076.

Sub: - Proposal Diversion of 134.69 ha of forest land for Expansion of Kulda Open Cast Coal Mining Project of Basundhara Area of Mahanadi Coalfields Limited in Sundargarh district under Sundargarh Forest Division.

-Submission of technically approved scheme regarding.

Ref: - 1. In-Principal Approval Orders of MoEF & CC, Govt of India, New Delhi dated. 10.07.2025.
2. Your Letter No. MCL/BA/PO/KOCP/2024-25/431 dt. 25.08.2025.
3. Memo No. 5503/3F (Misc)-873/2025 dt. 23.10.2025 of RCCF Rourkela Circle Rourkela.

Sir,

With reference to the subject cited above, the following schemes in compliance with the specific conditions stipulated in Stage-I approval accorded in respect of the above diversion proposal at current wage rate have been technically approved by the Regional Chief Conservator of Forest Rourkela Circle Rourkela for the amount as indicated against each below.

Sl. No.	Name of the description of the Schemes	Technical approval by the RCCF, Rourkela Circle, Rourkela projected amount (in Rs.)
1	Schedule for surrender of the mined out and reclaimed forest land prepared in compliance with Condition No.5 without financial implication	Technically approved
2	The scheme for mitigative measures to minimize soil erosion and choking of streams prepared in compliance with Conditions No. 9 (a) with a total financial outlay of Rs. 63, 01, 556 /- .	Technically approved for Rs. 63,01,556/-
3	The scheme for planting of adequate drought hardy plant species and sowing of seeds in the appropriate area within the mining lease area to arrest soil erosion prepared in compliance with Condition No. 9 (b) with a total financial outlay of Rs. 8, 58, 44, 558 /-	Technically approved for Rs. 8,58,44,558/-
4	The scheme for construction of check dams, retention / toe walls to arrest sliding down of the excavated material along the contour prepared in compliance with Condition No. 9 (c) with a total financial outlay of Rs. 5, 92, 52, 400 /-	Technically approved for Rs. 5,92,52,400/-

5	The scheme to stabilize overburden dumps by grading / benching so as to ensure that angle of repose at any given place is less than 28° prepared in compliance with Condition No. 9 (d) with a total financial outlay of Rs. 37, 68, 720 /-	Technically approved for Rs. 37,68,720 /-
6	The scheme to maintain Safety Zone (7.5-meter strip all along the inner boundary of the Mining Lease area as green belt and ensure dense canopy on safety zone prepared in compliance with Condition No. 10 (c) with a total financial outlay of Rs. 1, 06, 95, 072 /-	Technically approved for Rs. 1,06,95,072 /-
7	The scheme for gap planting and soil & moisture conservation activities to restock and rejuvenate the degraded open forests located in the area within 100 meters from outer perimeter of the mining lease prepared in compliance with Condition No. 12 with a total financial outlay of Rs. 27, 62, 412 /-	Technically approved for Rs. 27,62,412 /-
8	The scheme for de-silting of the existing village tanks and other water bodies so as to mitigate the impact of siltation of such tanks/ water bodies located within 05 km from Mining Lease Boundary prepared in compliance with Condition No. 13 with a total financial outlay of Rs. 2, 03, 23, 195 /-	Technically approved for Rs. 2,03,23,195 /-
Total :-		Rs. 18,89,47,913 /-

Further, you are requested to deposit an amount of **Rs.27,62,412 /-** (**Rupus Twenty-seven lakhs sixty-two thousand four hundred twelve**) only towards scheme for Gap Planting and Soil & Moisture Conservation Activities (SMC) to restock and rejuvenate the degraded open forests located in the area within 100 meters from outer perimeter of the mining lease prepared in compliance with stipulated in Stage-I approval **Condition No.12, through 'E' payment mode by using web portal of <http://parivesh.nic.in> (Parivesh Portal) of MoEF & CC, CAMPA account** vide letter under reference and submit the original proof with seal and signature of the issuing bank to this Office for needful action.

This is for favour of your kind information and necessary action.

Yours faithfully


Divisional Forest Officer,
Sundargarh Forest Division.

Memo No. 6420 /4F (Misc.) /Dated 29 /10/2025.

Copy forwarded to the Principal Chief Conservator of Forests, (Forest Diversion & Nodal Officer, FC-Act), O/o the PCCF, Odisha for favour of kind information and necessary action Memo No. 5504 dt. 23.10.2025 of RCCF, Rourkela Circle Rourkela.


Divisional Forest Officer,
Sundargarh Forest Division.

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Memo No. 6421 /4F (Misc.) /Dated. 29 /10/2025

Copy forwarded to the Regional Chief Conservator of Forests Rourkela Circle Rourkela for kind information and necessary action with reference to his Memo No. 5503 dt. 23.10.2025.


Divisional Forest Officer,
Sundargarh Forest Division.



**OFFICE OF THE
REGIONAL CHIEF CONSERVATOR OF FORESTS, ROURKELA CIRCLE,
AT/P.O. PANPOSH, ROURKELA-769 004.**

Memo No. **5503** /3F(Misc)-873/2025

Date: **23.10.2025**

To

The Divisional Forest Officer,
Sundargarh Division.

Sub:

Proposal for diversion of 134.69 ha of forest land for Expansion of Kulda Open cast Coal Mining Project of Basundhara Area of Mahanadi Coalfields Limited in Sundargarh district of Sundargarh Forest Division.

Ref:

Your Memo No.5806 Dtd.03.10.2025.

The following schemes prepared in compliance with the conditions stipulated in the Stage-I approval accorded in respect of the above diversion proposal at the current wage rate and submitted vide your Memo under reference are hereby technically approved for the amount as indicated against each.

Sl. No.	Name of the scheme for which has been submitted by the DFO, Sundargarh	Technical approval by the RCCF, Rourkela Circle.
01	Schedule for surrender of the mined out and reclaimed forest land prepared in compliance with Condition No.5 without financial implication	Technically approved
02	The scheme for mitigative measures to minimize soil erosion and choking of streams prepared in compliance with Condition No. 9(a) with a total financial outlay of Rs.63,01,556/-.	Technically approved for Rs.63,01,556/-
03	The scheme for planting of adequate drought hardy plant species and sowing of seeds in the appropriate area within the mining lease area to arrest soil erosion prepared in compliance with Condition No. 9(b) with a total financial outlay of Rs.8,58,44,558/-.	Technically approved for Rs. 8,58,44,558/-
04	The scheme for construction of check dams, retention / toe walls to arrest sliding down of the excavated material along the contour prepared in compliance with Condition No. 9(c) with a total financial outlay of Rs.5,92,52,400/-	Technically approved for Rs. 5,92,52,400/-
05	The scheme to stabilize overburden dumps by grading/benching so as to ensure the angles of repose at any given place is less than 28° prepared in compliance with Condition No. 9(d) with a total financial outlay of Rs.37,68,720/-	Technically approved for Rs.37,68,720/-
06	The scheme to maintain Safety Zone (7.5 meter strip all along the inner boundary of the Mining Lease area) as green belt and ensure dense canopy on safety zone prepared in compliance with Condition No. 10(c) with a total financial outlay of Rs. 1,06,95,072/-	Technically approved for Rs.1,06,95,072/-

07	The Scheme for gap planting and soil & moisture conservation activities to restock and rejuvenate the degraded open forests located in the area within 100 meters from outer perimeter of the mining lease prepared in compliance with Condition No. 12 with a total financial outlay of Rs.27,62,412/-	Technically approved for Rs. 27,62,412/-
08	The scheme for de-silting of the existing village tanks and other water bodies so as to mitigate the impact of siltation of such tanks/water bodies located within 05 Km from Mining Lease Boundary prepared in compliance with Condition No. 13 with a total financial outlay of Rs.2,03,23,195/-.	Technically approved for Rs. 2,03,23,195/-

The technically approved schemes are returned herewith in triplicate for taking necessary action at your end.

Encl: As above.


**Regional Chief Conservator of Forests,
 Rourkela Circle**

Memo No.

Date:

Copy forwarded to the Additional Principal Chief Conservator of Forests (Forest Diversion & Nodal Officer, FC Act), O/o the Principal Chief Conservator of Forests & HoFF, Odisha for kind information and necessary action with reference to Memo No.5807 Dtd.03.10.2025.


**Regional Chief Conservator of Forests,
 Rourkela Circle**



Scheme

To undertake Gap Planting and Soil & Moisture Conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), if any, located in the area within 100 meter from outer perimeter of the mining lease of Kulda OCP of Mahanadi Coalfield Limited, Basundhara Area.



Prepared by
General Manager,
Basundhara Area, Sundargarh, Odisha

Compliance to Condition No 12 of "In Principle approval" orders for Online Proposal No FP/OR/MIN/50293/2020 dated 10.07.2025



Scheme to undertake Gap Planting and Soil & Moisture Conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), located in the area within 100 meter from outer perimeter of the mining lease of Kulda OCP of MCL, Basundhara Area District: Sundargarh, Odisha.

Scheme to undertake Gap Planting and Soil & Moisture Conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), if any, located in the area within 100 meter from outer perimeter of the mining lease of Kulda OCP of Mahanadi Coalfield Limited, Basundhara Area District: Sundargarh, Odisha.

1.0 Introduction:

Kulda mine is a part of the Ib Valley coal mines, owned by Mahanadi Coalfields Limited. The mine has an expansion plan to increase capacity by an additional 5 million tones. In May 2022, a proposal to increase the mine's production capacity from 19.6 to 21 MTPA over the existing mining lease area was granted environmental clearance (EC). Accordingly the Mining Plan & Mine Closer Plan has been prepared and approved vide Letter no MCL/SBP/CS/BD-250/Exct/2022/12740/ dated 17.08.2022

In the process of expansion of Kulda Opencast Project the mining activities will be expanded from existing working area of 634.205 Ha to total lease area 921.305 ha i.e. additional area to be covered 295.62 ha. Out of 295.62 ha, 134.69 ha is of Forest land and balance 160.93 ha is of Non Forest Kisam.

The MCL authority, Basundhara Area has filed forest diversion proposal under provisions of *Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980* vide Proposal no FP/OR/ MIN / 50293 /2020. After due consideration, the In-Principle approval orders has been issued by the MoEF&CC, Govt. of India, New Delhi dated 10.07.2025. There are set of stipulated conditions to be complied with prior to Stage-II approval orders. The Condition No 12 reads as follows.

"12. User agency either himself or through the State Forest Department shall undertake gap planting and soil & moisture conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), if any located in the area within 100 meter from outer perimeter of the mining lease. The plan for plantation and SMC activities will be prepared and submitted to the MoEF & CC before final approval."

This scheme is prepared to comply the condition no 12 of the in- principle approval orders as stated above.



Scheme to undertake Gap Planting and Soil & Moisture Conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), located in the area within 100 meter from outer perimeter of the mining lease of Kulda OCP of MCL, Basundhara Area District: Sundargarh, Odisha.

2. Total mining area & Boundary description:

The total Mining Lease area is 921.305ha which includes 354.06ha Forest Land and balance 567.20 ha Non Forest Land. The village wise land details are furnished below.

Sl No	Village	Forest Land in Ha			Non Forest Land in ha			G. Total in Ha
		RF	Rev. Forest	Total	Non Forest (Govt.)	Pvt.	Total	
1	Kulda		77.56	77.56	26.87	50.59	77.46	155.02
2	Bankibahal		87.44	87.44	12.06	78.52	90.58	178.02
3	Balinga		4.97	4.97	36.73	110.80	147.53	152.5
4	Tumulia		35.81	35.81	32.33	86.61	118.94	154.75
5	Siarmal		68.55	68.55	1.21	27.22	28.43	96.98
6	Lamla RF	88.25	0	88.25	0	0	0	88.25
Total		88.25	274.33	362.58	109.20	353.74	462.94	825.51
Area outside the Lease		0	0	0	99.99	4.33	104.32	104.32
Total		88.25	274.33	362.58	209.19	358.07	567.26	929.83
Re-diverted Forest area				(-)8.52				(-) 8.52
F. Total				354.06	209.19	358.07	567.26	921.305

The total forest area involved in Kulda OCP is 362.58 ha (this includes 8.52 ha of Forest land re-diverted for Basundhara Washery Purpose). Out of 362.58 ha the stage-II forest clearance has been obtained for 227.89 ha vide Order F. No 8-176/1997-FC Dated 08.08.2007 from MoEF&CC, New Delhi. For balance forest area i.e. 134.69 ha diversion proposal has been filed vide Proposal No FP/ OR/MIN/ 50293/2020 and in- principle approval orders has been issued.

3. Objectives of the Scheme:

From the stipulated conditions of Stage-I orders as stated above the objectives have been derived as follows.

- To restock and rejuvenate the degraded open forests (having crown density less than 0.40), if any, located in the area within 100 meter from outer perimeter of the mining lease.

The objectives will be achieved through

- Gap planting,
- Soil & Moisture Conservation activities



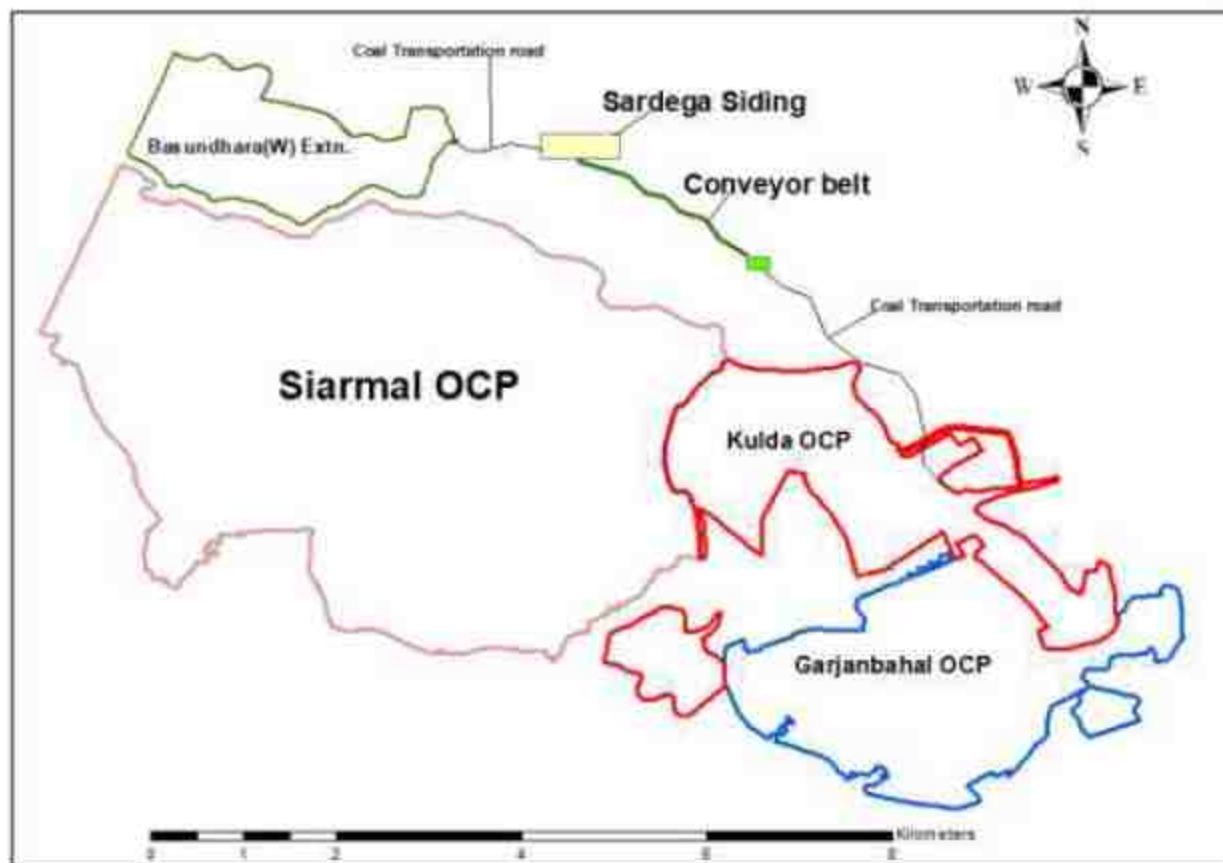
Scheme to undertake Gap Planting and Soil & Moisture Conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), located in the area within 100 meter from outer perimeter of the mining lease of Kulda OCP of MCL, Basundhara Area District: Sundargarh, Odisha.

The above activities will be implemented by User agency by himself or through the State Forest Department. It will be implemented at the project cost.

3.1 Boundary and Adjoining Mines:

The Kulda OCP is having other mines of Mahanadi Coalfield Limited in three sides as furnished below.

North	Basundhara East Block
South	Garjanbahal Coal Block
East:	No Coal Block, Basundhara nalla
West	Siarmal & Siarmal Extension





Scheme to undertake Gap Planting and Soil & Moisture Conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), located in the area within 100 meter from outer perimeter of the mining lease of Kulda OCP of MCL, Basundhara Area District: Sundargarh, Odisha.

Sl no	Khata No	Plot No	Total Area of the Plot in Ac	Area coming within 100m zone in Ac	Kisam
Village :Bankibahal			Cadastral Sheet No:		
1	57	15	8.97	3.11	Jungal (AJA)
2	57	370	75.06	9.25	Jungal (AJA)
3	57	393	6.70	2.19	Jungal (AJA)
4	57	398	22.65	3.39	Jungal (AJA)
5	57	402	5.90	0.895	Jungal (AJA)
6	57	406	8.18	1.47	Jungal (AJA)
7	57	414	10.230	1.044	Jungal (AJA)
		S Total		21.349	
Village: Bailanga					
8	121	1	27.70	0.83	Patra Jungal (AJA)
9	121	11	9.60	5.15	Patra Jungal (AJA)
10	119	328	24.900	13.206	G. Jungal (Rakhita)
11		RF		9.31	Sidharmunda RF
		S Total		28.496	
		G Total		49.845 = 20.172 ha	

4. Area under 100m from Kulda Mining Lease Boundary & kisam thereof:

The Cadastral Map 16"= 1 Mile pertaining to 100 m from the boundary line (Kulda OCP) has been examined. The following plots of forest kisam are coming within the 100m peripheral area. The plot wise details are as furnished below.

The area coming under Sidharmunda RF has already been provided for Compensatory afforestation purpose against Siarmal OCP of MCL against forest land to be diverted. The corresponding / relevant document is at Annexure-1

The area available for treatment is 49.845 Ac-9.31 Ac= 40.535 Ac= 16.405 ha

5. Present Crop condition (area within 100m from Boundary)

The area coming within 100m from the boundary line in East direction bears a natural riparian vegetation. The crop is moist deciduous in nature. Sal, Asan, Arjun, Ailanthus, Jamun, Pani Gambhari (*Tribia sp*), Ficus sp are occurring on area coming within 100m zone



Scheme to undertake Gap Planting and Soil & Moisture Conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), located in the area within 100 meter from outer perimeter of the mining lease of Kulda OCP of MCL, Basundhara Area District: Sundargarh, Odisha.

from boundary. There are also planted seedlings of Kadamba, Neem, Sana Chakunda, Acacia. Biotic interference is heavy. The crop density is about 0.2

6. Proposal to enhance & juvenile the crop:

The area coming under 100m zone on eastern side of the Project (Kulda OCP) will be treated under three prong action plan i.e.

- a) Silvicultural cleaning operation;
- b) Planting of species mostly of Riverine succession Sisoo (*Dalbergia sisoo*, Simal (*Bombax Ceiba*), Chakunda (*Cassia siamea / Senna siamea*) and ficus species. @ 500 plants per ha i.e. (ANR with gap planting @500 plants per ha)
- c) Adequate SMC on river banks with assisting the naturally occurring seedlings / saplings).

7. Operational details:

7.1 Silvicultural cleaning operation:

The silvicultural cleaning is intended to achieve healthy growth of existing seedlings / saplings / coppice shoots of any species. The operation includes

- Cutting back of high stumps with preference to living stumps and having a good coppicing power.
- Cutting of climbers those are of annual nature and uprooting them wherever possible. The woody climbers those are interlocking the existing trees should not be cutback as it gives enforcement to trees.
- Singling out of multiple coppice shoots and retaining most promising ones.

7.2 Planting of species associated with Sal Forest & post care operation:

Plantation of indigenous species matching with the local species is required to be planted following the cost norm of Plantations approved by Forest department.

The species suggested are

- (i) *Dalbergia sisoo (sisoo);*
- (ii) *Terminalia arjuna (Arjun);*
- (iii) *Syzygium cumini (Jamun),*
- (iv) *Bambusa nutan / Dendrocalamus Strictus (Bamboo),*



Scheme to undertake Gap Planting and Soil & Moisture Conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), located in the area within 100 meter from outer perimeter of the mining lease of Kulda OCP of MCL, Basundhara Area District: Sundargarh, Odisha.

- (v) *Cassia siamea* / *Senna siamea* (Sana Chakunda),
- (vi) *Anthocephalus cadamba* (Kadamba) ;
- (vii) *Bombax Ceiba* (Simil),
- (viii) *Anogeissus acuminata* (Fasi)

The detail steps of planting and post care as provided in the cost norm (ANR with gap planting @500 plants per ha) enclosed to be followed. (Annexure-II)

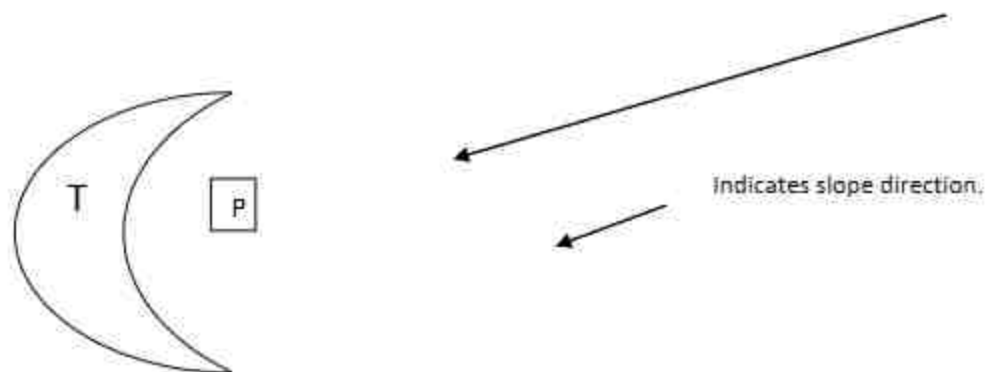
7.3 Adequate SMC on area coming within 100m Zone / Basundhara River banks w.0ith care to naturally occurring saplings.

The area coming in 100m zone is close to Basundhara River / nalla. Area displays a moderate slope towards Basundhara nala / rive. LBCD may be taken up along the contour.

The natural seedlings available in the treatment area are to be given appropriate attention to ensure its establishment.

The following measures are prescribed.

- Deep Soil Working around the seedlings at a width of 0.50 m with application of fertilizer.
- Weeds to be removed / uprooted at a radius of 1 meter.
- In case of sloppy location Half Moon trench to be provided.



- T : Half Moon Trench
- P: Plant position.

Besides the provisions made in the cost norm for ANR with gap planting @500 plants per ha a sum of Rs 15000/- per ha is provided to intensify SMC activities as prescribed above.



Scheme to undertake Gap Planting and Soil & Moisture Conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), located in the area within 100 meter from outer perimeter of the mining lease of Kulda OCP of MCL, Basundhara Area District: Sundargarh, Odisha.

8. Cost estimation:

Sl No	Work description	Unit	Rate	Quantum	Amount in Rs	Remark
1	Silvicultural Cleaning operation and gap planting @500 plants per ha (ANR with gap Planting)	Ha	125323.65	16.405	2055934.50	Details of work plan as per approved cost norm
2	Add. SMC	Ha	15000/-	16.405	246075.00	
0	Total				2302009.50	
	Add 20% for cost escalation				460401.90	
	Total				2762411.40 or say 27,62,412/-	

(Rupees Twenty Seven Lakh Sixty Two Thousand and Four Hundred Twelve Only)

9. Executing Agency:

The proposed activities will be implemented by the State Forest Department / Divisional Forest Officer, Sundargarh. The approved cost will be deposited in ODISHA CAMPA fund through parivesh web portal.

Encl: 100m Zone Map (Cadastral map), Documents in support of identification of Sidharmunda RF area for Compensatory afforestation purpose & Cost norm for ANR with gap planting @500 plants per ha.

General Manager,

Basundhara Area, MCL

Sundargarh

Project Officer
Kulda Opencast Project
परियोजना अधिकारी
कुल्डा परियोजना

DIVISIONAL FOREST OFFICER
SUNDARGARH FOREST DIVISION

Technically Approved

Regional Chief Conservator of Forests
Rourkela Circle



Scheme to undertake Gap Planting and Soil & Moisture Conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), located in the area within 100 meter from outer perimeter of the mining lease of Kulda OCP of MCL, Basundhara Area District: Sundargarh, Odisha.

Annexure-II

Cost Norm for ANR with gap planting @500 Plants per Hectare (18 months old seedlings)						
Wage Rate Rs. 462/- per Manday						
Sl. No.	Item of work	Preferable period of execution	Labour in Man days	Labour Cost (Rs)	Material Cost (Rs)	Total Cost in (Rs)
1	2	3	4	5	6	7
0TH YEAR (Advance work)						
1	Survey, Demarcation and Pillar posting	Nov / Dec	2	924.00		924.00
2	Preparation of Treatment Map (Digital Map)	Nov / Dec	1	462.00		462.00
3	Site Preparation (Cleaning & removal of debris)	Jan / Feb	4	1848.00		1848.00
4	Silvicultural operations including cutting of high stumps, singling out of multiple shoots, climber cutting, clearance of weeds & removal of debris from the fields to blank space	Jan / Feb	12	6720.00		6720.00
5	Alignment and Stacking	Feb / Mar	1	462.00		462.00
6	Digging of pits (45cm x 45cm x 45cm) /50cm diameter augur hole in hard & gravity soil	Feb / Mar	20	9240.00		9240.00
S. TOTAL			40	19656.00	0.00	19656.00
7	Monitoring, Evaluation, Documentation & Contingency i.e., 5% of the total Cost					982.80
Total of the Yr			40	19656.00	0.00	20638.80
1st Year / Planting Year						
1	Fencing by using Bamboo Twigs & Thorns / Brushwood / any other	June / July	12.00	5544	2500.00	8044.00
2	Transportation of 18 months old seedlings by hired vehicle from the nursery including loading, unloading & stacking the same at planting site@Rs8/- per seedling (1760 nos) Average lead of 15 Rkm)	Jul / Aug	0.00	0	4400.00	4400.00
3	Watering the poly pot seedlings at planting site	Jul / Aug	1.00	462	0.00	462.00
4	Conveyance of poly pot seedlings on head load from the stacking site to individual dug out pits within the planting site, applying insecticide, fertilizers and planting after scooping the soil with other applied materials and pressing the soil properly around the planted seedlings. (in case organic manure is applied, bio pesticide should be used instead of insecticide)	Jul / Aug	12.50	5775	0.00	5775.00



Scheme to undertake Gap Planting and Soil & Moisture Conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), located in the area within 100 meter from outer perimeter of the mining lease of Kulda OCP of MCL, Basundhara Area District: Sundargarh, Odisha.

5	Cost of Fertilizer & Insecticide					
a	CMD/ Vermicompost/ Organic Manure as Basal Dose					
b	NPK @ 50 gms/plant as basal dose					
c	Insecticide/Bio-pesticide @ 5gms/plant	Jul / Aug	0.00	0	4915.00	4915.00
d	Urea @ 30 gms per plant					
e	Jivamruta/ Herbal based plant growing products					
6	Casualty Replacement @10% (50 nos)	Jul/ Aug	1.50	693	0.00	693.00
7	1st weeding & Manuring (Application of Urea)	Aug / Sept	5.00	2310	0.00	2310.00
8	2nd Weeding , Soil working (1mt diameter around the plants) and manuring	Sep/Oct	8.00	3696	0.00	3696.00
9	Fire line tracing (2mt wide fire line over 400m long) including maintenance of inspection path	Feb / Mar	3.00	1386	0.00	1386.00
10	Watch & Ward against grazing and other Biotic interference	Aug / Mar	8.00	3696	0.00	3696.00
	S. TOTAL		51	23562	11815.00	35377.0
11	Monitoring, Evaluation, Documentation & Contingency i.e., 5% of the total Cost					1768.9
	Total of the Yr		51	23562	11815.00	37145.9
2nd YEAR MAINTENANCE						
1	Transportation of 50 nos of 18 months old seedling by hired vehicle from Nursery to plantation site including loading, unloading @ Rs. 8/- per seedling (Average lead of 15 RKM)	Jul	0	0	400	400.00
2	Casualty Replacement -10%	Jul	2	924		924.00
3	Cost of Fertilizer & Insecticide					
	(a) Bio pesticide/ Insecticide @ 5 gms/ plant	July / Aug	0	0	1638	1638.00
	(b) NPK/ Urea/ Herbal based plant growing product					
4	Weeding (Complete weeding) & Soil working (1mt diameter around plants) & Manuring (Application of NPK/Urea/ Herbal based plant growing product)	Sept / Oct	10	4620	0	4620.00
5	Fire line tracing (3m wide fire line over 300mt long) including maintenance of inspection path	Feb / Mar	3	1386	0	1386.00



Scheme to undertake Gap Planting and Soil & Moisture Conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), located in the area within 100 meter from outer perimeter of the mining lease of Kulda OCP of MCL, Basundhara Area District: Sundargarh, Odisha.

6	Watch & Ward against grazing and other Biotic interface, Repair & maintenance of fencing	Apr-Mar	12	5544	0	5544.00
S. TOTAL			27	12474	2038	14512.00
7	Monitoring, Evaluation, Documentation & Contingency i.e., 5% of the total Cost		0	0	0	725.60
Total of the Yr			27	12474	2038	15237.60
3rd YEAR MAINTENANCE						
1	Cost of fertilizer (Urea/NPK/Bio-fertilizer/Vermicompost /Herbal based) plant growing product	Aug / Sept	0	0	1600	1600.0
2	Weeding (Complete weeding), soil working (1mt diameter around the plants) and Manuring (Application NPK / Urea/ Herbal based plant growing product)	Sep/Oct	10	4620	0	4620.0
3	Fire line tracing (3mt wide fire line over 300m long) including maintenance of inspection path	Feb/Mar	3	1386	0	1386.0
4	Watch & Ward against grazing & other biotic interference, repair & maintenance of fencing	Apr-Mar	12	5544	188	5732.0
S. TOTAL			25	11550	1788.00	13338.0
5	Monitoring, Evaluation, Documentation & Contingency i.e., 5% of the total Cost					666.9
Total of the Yr			25	11550	1788.00	14004.9
4th YEAR MAINTENANCE						
1	Fire line tracing (3mt wide fire line over 300m long) including maintenance of inspection path	Feb/Mar	3	1386	0	1386.0
2	Watch & Ward against grazing & other biotic interference, repair & maintenance of fencing	Apr-Mar	12	5544	0	5544.0
S. TOTAL			15	6930	0.0	6930.0
3	Monitoring, Evaluation, Documentation & Contingency i.e., 5% of the total Cost					346.5
Total of the Yr			15.0	6930.0	0.0	7276.50
G. Total						94303.65



Scheme to undertake Gap Planting and Soil & Moisture Conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), located in the area within 100 meter from outer perimeter of the mining lease of Kulda OCP of MCL, Basundhara Area District: Sundargarh, Odisha.

Abstract (Year wise) including cost of seedlings

Year	No. Of Man days	Labour Cost @462/-	Material cost (Rs.)	Monitoring and Supervision @5%	Seedling cost@ 51.70	Total
0th	40	19656.00	0.00	982.80		20638.80
1st	51	23562	11815.00	1768.85	28435.00	65580.85
2nd	27	12474	2038	725.60	2585.00	17822.60
3rd	25	11550	1788.00	666.90		14004.90
4th	15	6930	0.0	346.50		7276.50
Grand Total		74172.00	15641.00	4490.65	31020.00	125323.65

JOINT VERIFICATION OF FOREST LAND FOR COMPENSATORY AFFORESTATION IN FAVOUR OF KULDA OCP, MCL

ANNEXURE- I

Division: Sundergarh

Range : Lephipada

Forest Particular	Patch no.	Section	Beat	Area Identified for C.A. (in Ha.)
Sikajore A	1	Gundiadh	Halma	54.0
	2	Gundiadh	Halma	10.0
	3	Gundiadh	Halma	10.5
Sikajore PRF	1	Gundiadh	Halma	40.0

Range : Ujalpur

Forest Particular	Patch no.	Section	Beat	Area Identified for C.A. (in Ha.)
Tangarpali DPF	1	Ujalpur	Rupabahal	14.0

Range : Gopalpur

Forest Block	Patch no.	Section	Beat	Area Identified for C.A. (in Ha.)
Pandripani RF	1	Gopalpur	Sarangijharla	64.30
Sidharmunda RF	1	Gopalpur	Garjanbahal	50.40
Punjipahar RF	1	Duduka	Duduka	37.70

1. Certified that land referred above of respective Range is having adequate soil depth suitable for plantation from management point of view.
2. Certified that land referred above of respective Range is free from encroachment and encumbrances.
3. Certified that land referred above of respective Range is not allotted previously.
4. Certified that land referred above of respective Range is not settled in favour of any individual/ community under F.R. Act, 2006
5. Certified that the above identified area of respective Range contains sparse vegetation with low density of forest growth and is fit for compensatory afforestation.

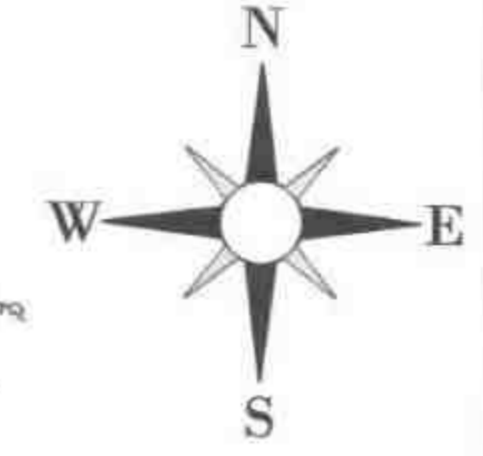
Heels
Signature & Seal of
Range Officer
Gopalpur Range

S. Sarda
Signature & Seal of
Range Officer
Gopalpur Range

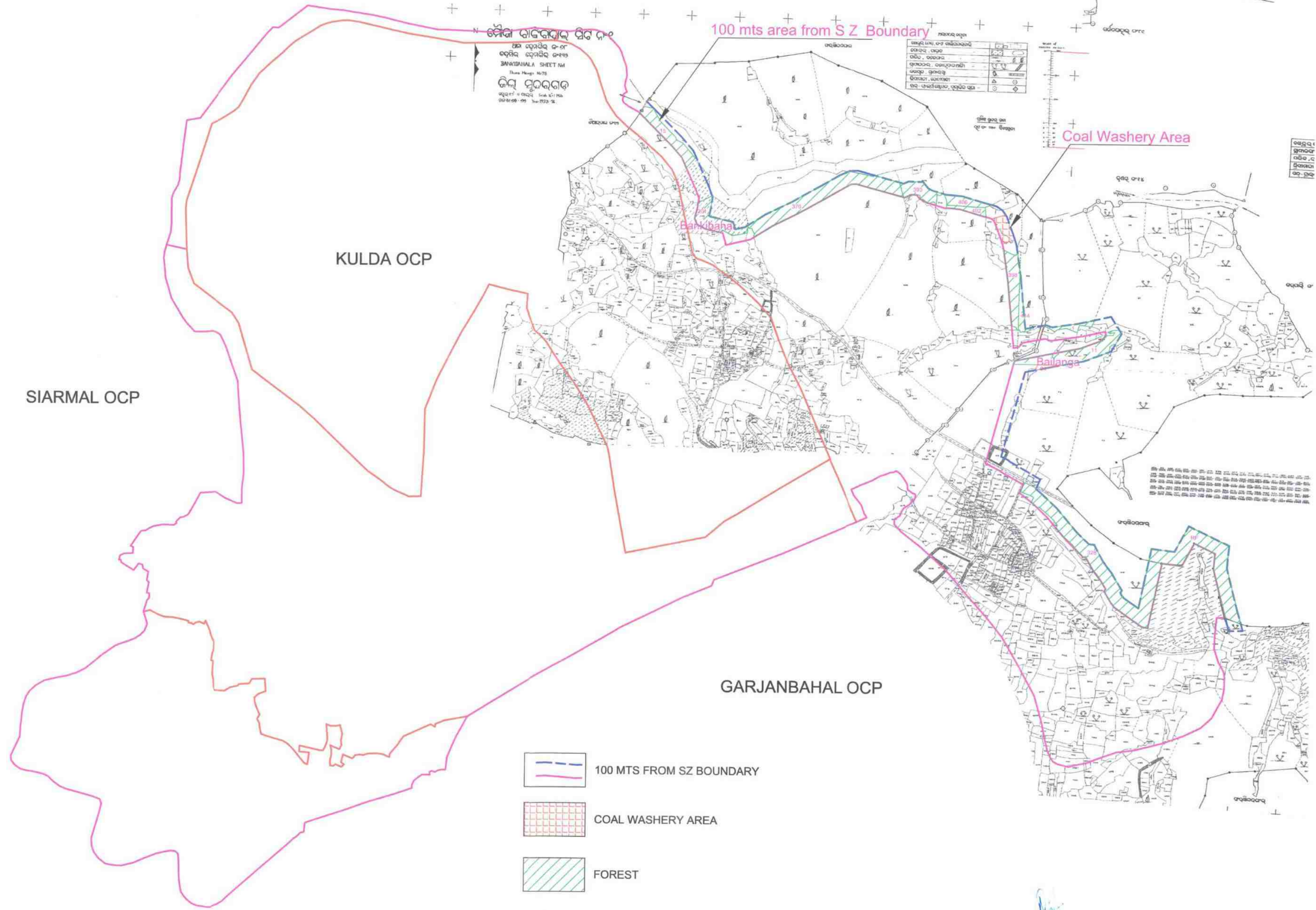
DD
Signature & Seal of
Range Officer
Gopalpur Range

MAP SHOWING 100 MTS AREA OF KULDA OPENCAST MINING PROJECT 921 Ha. BY MCL, IN VILLAGE BANKIBAHAL
BALINGA AND 3 OTHERS UNDER HEMGIRI TAHASIL OF SUNDERGARH DISTRICT, ODISHA.

SCALE 16" = 1 MILE






BASUNDHARA EAST (EXHUSTED)



ଜିଲ୍ଲା ମାପଖାନା ପ୍ରତିଷ୍ଠା
ଓଡ଼ିଶା ସରକାରଙ୍କ ଦ୍ଵାରା
BANKIBAHAL SHEET No. 73
ଓଡ଼ିଶା ମାପଖାନା
ଖୁବୁଡ଼ା ଓ ଚାନ୍ଦିନୀ ବ୍ଲକ୍, ୯୨୧ ହା.
୧୯୫୯-୬୦ ମଧ୍ୟ ୧୯୭୦-୭୧

ଖଣ୍ଡିତ ମାଟି ଓ ପଥର	୧୦୧
କାଠିଆ ପଥର	୧୦୨
କାଠିଆ ମାଟି	୧୦୩
କାଠିଆ କାଠି	୧୦୪
କାଠିଆ କାଠି	୧୦୫
କାଠିଆ କାଠି	୧୦୬
କାଠିଆ କାଠି	୧୦୭
କାଠିଆ କାଠି	୧୦୮
କାଠିଆ କାଠି	୧୦୯
କାଠିଆ କାଠି	୧୧୦

Coal Washery Area

-  100 MTS FROM SZ BOUNDARY
-  COAL WASHERY AREA
-  FOREST

Project Officer
Kulda Opencast Project
୧୫/୦୮/୨୦୨୫
କଳ୍ପା ମିଶ୍ର