

**SCHEME FOR
SITE SPECIFIC COMPENSATORY
AFFORESTATION**

OVER

979.3768 HA OF NON-FOREST GOVT. LAND

IDENTIFIED IN VILLAGES

UPARJHABI, POKHARIGUDA, KUMJORE & SILET

UNDER THUAMUL-RAMPUR TAHASIL

IN

KALAHANDI DISTRICT

AGAINST

DUBUNA-SAKRADIHI IRON & MANGANESE ORE MINING

LEASE

IN KEONJHAR DISTRICT, ODISHA

OF

M/s ODISHA MINING CORPORATION LTD.

(A Govt. of Odisha Undertaking)

Detailed scheme for Compensatory Afforestation to be carried out in lieu of 1243.27 hectares of forest area to be diverted for Dubuna-Sakradihi Iron Ore Mines of Odisha Mining Corporation Ltd. in Keonjhar District.

Total Mining Lease area of Dubuna-Sakradihi Iron & Manganese Ore mine is 1332.019 hectares out of which 1243.27 ha. is forest land. Deducting Safety Zone of 10.664 ha. and Broken up area prior to 25.10.1980 253.229 ha, Compensatory Afforestation will be done over 979.3768 ha. Compensatory Afforestation scheme was earlier prepared for 890.06 ha in Upar Jhabhi (360.05 ha), Pokhariguda (305.16 ha) and Kumjore (224.85 ha) considering total forest area to be 1155.836 ha. Total forest area was increased to 1243.27 ha, after including areas which were forest as on 25.10.1980 but later on converted to nonforest kisam. From Decision Support System it is seen that 20.933 ha. area of Upar Jhabhi village contain moderate density forests where only 600 seedlings per hectare can be planted. Hence a consolidated scheme for Compensatory Afforestation over 979.3768 ha. in the following villages is prepared herewith.

District	Tahasil	Forest Division	Village	Total area in hectares	Moderate Density Forest area in hectares	No. of seedlings to be planted in Bald Hill @ 1600 plants/ha	Seedlings to be planted in M.D.F. area @ 600 seedlings per ha.	Total seedlings to be planted in degraded forest
Kalahandi	Thumui Rampur	South Division	Uparjhabhi	360.050	20.933	542587	12560	20933
			Pokhariguda	305.160	Nil	488256	Nil	Nil
			Kumjore	224.850	Nil	359760	Nil	Nil
			Silei	89.316	0	142906	0	0
Total				979.376	20.933	1533509	12560	20933

Collector, Kalahandi vide letter No.341/Rev-Date 4.4.2014 has allotted 890.066 ha. nonforest land in Kumjore, Pokhariguda & Upajhabhi villages and vide letter no.486 Date 6.4.2017 for 89.316 ha in Silet village for raising compensatory afforestation by the State Forest Department at project cost. Letters of the Collector are enclosed as **Annexure-A**.

The site specific schemes are therefore prepared as follows:

1. Details of non-forest land :-

District: Kalahandi

Tahasil: Thuaraul Rampur

Village	Khata No	Plot No	Total area of the plot (Acres)	Area considered (Acres)	Kissam
Silet	36 (AAA)	1	11.85	9.042	Dangar
		2	29.75	20.446	Dangar
		3	29.50	23.025	Dangar
		4	17.83	15.645	Dangar
		5	12.20	12.160	Dangar
		6	26.75	26.192	Dangar
		7	16.10	7.366	Dangar
		9	28.80	11.965	Dangar
		11	20.00	4.116	Dangar
		12	30.00	17.799	Dangar
		13	37.50	10.234	Dangar
		15	20.33	20.325	Dangar
		17	20.20	10.064	Dangar
		215	36.45	16.735	Dangar
		216	28.00	15.590	Dangar
				220.704	Or 89.316 ha
Uparjhahi	90 Abad Ajngya Anabadi	1	28.23	28.23	Dangar
		2	15.78	15.78	Dangar
		3	17.18	17.18	Dangar
		4	16.60	16.60	Dangar
		5	32.65	33.65	Dangar
		20	82.60	82.60	Dangar
		21	32.13	32.13	Dangar
		24	10.50	10.50	Dangar
		45	10.03	10.03	Dangar
		65	6.09	6.09	Dangar
		84	8.73	8.73	Dangar
		87	12.00	12.00	Dangar
		91	50.00	50.00	Dangar
		93	6.13	6.13	Dangar
		108	38.20	38.20	Dangar
		111	38.17	38.17	Dangar
		112	39.90	39.90	Dangar
		113	28.65	28.65	Dangar
		114	11.35	11.35	Dangar
		168	64.39	64.39	Dangar
		381	40.95	40.95	Dangar
		382	31.80	31.80	Dangar
		573	63.03	63.03	Dangar

		574	25.50	25.50	Dangar
		575	25.94	25.94	Dangar
		576	17.15	17.15	Dangar
		577	8.78	8.78	Dangar
		652	10.15	10.15	Dangar
		699	22.13	22.13	Dangar
		710	63.35	63.35	Dangar
		721	35.57	30.62	Dangar
		Sub-Total			889.71 ac.
Pokhariguda	50 Abad Ajogya Anabadi	173	4.35	4.35	Dangar
		174	21.60	21.60	Dangar
		186	27.83	27.83	Dangar
		377	31.23	31.23	Dangar
		390	37.55	37.55	Dangar
		391	26.88	26.88	Dangar
		392	42.55	42.55	Dangar
		393	29.10	29.10	Dangar
		394	28.58	28.58	Dangar
		548	2.77	2.77	Dangar
		559	9.89	9.89	Dangar
		569	16.33	16.33	Dangar
		575	0.92	0.92	Dangar
		577	40.50	40.50	Dangar
		592	36.45	36.45	Dangar
		611	0.92	0.92	Dangar
		613	2.33	2.33	Dangar
		616	10.67	10.67	Dangar
		618	25.75	25.75	Dangar
		619	36.98	36.98	Dangar
		639	9.28	9.28	Dangar
		653	19.95	19.95	Dangar
		654	22.85	22.85	Dangar
		655	21.75	21.75	Dangar
		665	10.75	10.75	Dangar
		673	3.65	3.65	Dangar
		675	28.50	28.50	Dangar
		676	37.88	37.88	Dangar
		677	10.95	10.95	Dangar
		678	17.30	17.30	Dangar
		681	30.30	30.30	Dangar
		682	12.25	12.25	Dangar
		683	38	38.00	Dangar
		684	17.75	17.75	Dangar
		685	41.53	39.73	Dangar
Sub-Total			754.07 ac.	Or 305.16 ha	

Kumjore	69 Abad Ajogya Anabadi	1	60.30	60.30	Dangar
		2	53.55	53.55	Dangar
		21	36.88	36.88	Dangar
		38	3.50	3.50	Dangar
		43	65.28	65.28	Dangar
		46	1.38	1.38	Dangar
		89	1.96	1.96	Dangar
		104	3.96	3.96	Dangar
		157	14.32	14.32	Dangar
		181	45.05	45.05	Dangar
		188	41.08	41.08	Dangar
		189	42.88	42.88	Dangar
		209	72.05	72.05	Dangar
		241	13.25	13.25	Dangar
		294	47.55	47.55	Dangar
		319	51.48	51.48	Dangar
		321	36.55	1.16	Dangar
Sub-Total			555.63 ac.	Or 224.85 ha	

Grand Total 2420.11 Ac or 979.376 ha

The village maps showing the land details for the proposed compensatory afforestation are enclosed as Plate No.IX of the FDP.

The joint verification reports of non-forest land by Forest and Revenue authorities are enclosed as Annexure-(B).

Key Plans of Compensatory Afforestation area shown on topo sheet are enclosed as Annexure-(C).

G.P.S co-ordinates of survey stations of Compensatory Afforestation area are furnished as Annexure-(D)

2. Description of Area

- I. Whether the site selected for Compensatory Afforestation is a land bank or not: This identified non-forest area is under the control of Revenue Department and classified as 'Dangar'. It is not a land bank.
- II. If the CA site is other than the land bank, reasons be given: No land bank has been established yet for this purpose.
- III. In case of non forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: C.A land of Silel is adjoining Melghara RF. Kumjore, Upar Jhabhi and Pokhariguda are adjoining sites which is located at a distance of 1.3 km from Tunapari R.F.
- IV. Soil type :Lateritic soil.

V. Topography :

- Hilly/Undulating/Plain: The Compensatory Afforestation sites are hilly and undulating.
- Slope: Steep/Medium/Gentle: The sites selected for Compensatory Afforestation have medium to gentle slope.

VI. Whether the area is bearing any root stock of vegetation: The sites selected for Compensatory Afforestation are either barren or with weed growth like *Lantana*, *Eupatorium*, *Woodfordia fruticosa*, *Combretum decandrum*. Root stock of any principal species like Sal is not available.

3. Plantation Model:-

Block plantation with 1600 plants per hectare will be raised over 958.443 ha. and gap planting will be done in MDF area over 20.933 ha. with 600 plants per ha. Maintenance of plantation for 10 years is also required as per F.No. 11-168/2009-FC Date 14.2.2012 of MoEF. Shortfall of 20933 seedlings due to MDF area will be planted in degraded forest elsewhere. Considering these facts a site specific cost norm for the Block plantation is furnished as Annexure-(E) and Gap Plantation with 600 plants per ha. is furnished as Annexure-(F).

4. Schedule of Plantation Programme:-

Detail of year wise break up of requirements of funds is as under:-

Year	Bald Hill plantation			Gap plantation of 600 seedlings per ha.		
	Area in Ha.	Rate/ Ha.	Amount	Area in Ha.	Rate/ Ha.	Amount
0th Year	958.443	24539	23519233	20.933	6400	133971
1st Year		27925	26764521		25000	523325
2nd Year		12664	12137722		9384	196435
3rd Year		8920	8549312		2800	58612
4th Year		3600	3450395		600	12560
5th Year		3600	3450395		600	12560
6th Year		3600	3450395		600	12560
7th Year		3600	3450395		600	12560
8th Year		3600	3450395		600	12560
9th Year		3600	3450395		600	12560
10th Year		3600	3450395		600	12560
Total		99248	95123553		47784	1000263

5. Technical details:- Technical details of Compensatory Afforestation Scheme are as follows:

a) General Details :

Survey & Demarcation of boundary:

The identified area will be surveyed by DGPS and the area will be demarcated with RCC pillars of size 2.5 mtr x 30 cm x 30 cm. fixed at all corner points at visible distance. This work will be done by the User Agency at Project cost.

Fencing:

To protect the plantation from grazing and other biotic interference, it will be provided with 7 strand barbed wire fencing with RCC pillars, the cost for which will be paid by the User Agency. Since non-forest areas adjoining this site have also been taken for Compensatory Afforestation for other projects and barbed wire fencing will be done around the entire patch, the length of barbed wire fence needed in this project is furnished below.

Sl No	Village	Length of outer periphery of the site in mtr	Length of common fence of adjoining project which need not be fenced	Total length of fence in mtr (3+4-5)
(1)	(2)	(3)	(4)	(5)
1	Silet	12315	Nil	12315
2	Upur Jhabi	25012	Nil	25012
3	Pokhariguda	17535	2538 mtr in common boundary with Upur Jhabi	14997
4	Kumjore	16524	1386 mtr in common boundary with Pokhariguda	15138
Total		71386 mtr	3924 mtr	67462 mtr

Estimate for barbed wire fencing has been provided in Annexure - (G).

Planting and post-planting:

- b) Block plantation shall be taken up with 1600 plants per hectare at spacing of 2.5 m x 2.5 m. Alignment and pit marking should be done carefully in slopes so that the horizontal distance between plants in a row remains 2.5 mtrs and not the distance measured along the slope. All post planting measures like casualty replacement, soil working, manuring, fire protection etc. will be undertaken. The plantation area should be divided into 4 hectare plots. These plots should be demarcated in the field before digging of pits so that the demarcating line does not cross a plantation row. The 4 ha plots should be shown on map. Cost norm for Block plantation is furnished as Annexure-(E). In areas having Moderately Dense Forests, gap planting with 600 plants per ha. will be done. Cost norm for Gap Plantation with 600 plants per ha. is furnished as Annexure-(F).

While taking up plantation, the following vital points shall be taken up for consideration: -

- Care to be taken to raise healthy plantable seedlings of minimum 60 cm height. 10% extra seedlings are to be raised for replacement of casualty.
- Pitting shall invariably be done during November-February i.e., before onset of monsoon. If possible the soil of upper portion and lower portion of pit should be placed separately in specific direction so that while planting the pits will be filled with top-soil first.

- Planting shall be done on the onset of monsoon to get full benefit of monsoon rain and planting should never be delayed.
- Basal dose of 50 grams of NPK and 5 grams of Chlorpyrifos dust per plant should be applied at the time of planting carefully by mixing with top-soil so that the roots of seedlings do not come in direct contact with fertilizer.
- In case of any mortality of planted seedlings, it should be replaced with good seedlings as soon as possible for better success rate.
- Complete weeding in proper time will be done. Strip weeding will not be permitted.
- Soil-working and application of 2nd dose fertilizer of 50 gms NPK per plant should be done in time.
- Since the area is provided with barbed wire fence, watch & ward will be easier and the watchers may be engaged in weeding in problematic areas alongwith watch & ward.

c) Species:

Although indigenous species are to be preferred in the plantation, considering adverse soil & moisture conditions we may go for hardy exotic species where required so that the plants are able to survive. For success of plantation in interior tribal areas, plantation of fruit and NTIP species plays a great role since economic species have a little value for local people. Considering the topography, soil and moisture availability of the plantation area, the following species will be planted

Sl No	Name of species	Common name	Remarks
1	<i>Azadirachta indica</i>	Neem	
2	<i>Derris indica</i>	Karanja	
3	<i>Emblia officinalis</i>	Amla	
4	<i>Terminalia chebula</i>	Harida	In lower areas with good soil depth
5	<i>Terminalia bellirica</i>	Bahada	In lower areas with good soil depth
6	<i>Dalbergia sissoo</i>	Sissoo	In lower areas with good soil depth
7	<i>Gmelina arborea</i>	Gambhari	In lower areas with good soil depth
8	<i>Dendrocalamus strictus</i>	Salia bamboo	In lower areas with good soil depth healthy seedlings from rhizomes may be planted
9	<i>Cassia siamea</i>	Chakunda	In lower areas with good soil depth
10	<i>Tamarindus indica</i>	Tentuli	In lower areas with good soil depth
11	<i>Madhuca indica</i>	Mahul	Only two years old seedlings may be planted
12	<i>Simaruba glauca</i>	Simaruba	In rocky areas with low soil depth
13	<i>Zizyphus mauritania</i>	Ber	In rocky areas with low soil depth
14	<i>Tectona grandis</i>	Teak	Potted seedlings from pre-sprouted healthy stumps will be planted

15	<i>Mangifera indica</i>	Mango	In situ plantation (direct placing of mango stone in planting site) during pre-monsoon may be adopted in few lower areas or where watering can be done during summer
16	<i>Caryota urens</i>	Salapa	
17	<i>Terminalia arjuna</i>	Arjuna	Planted only on nala bank or near water.
18	<i>Desmodium oojeinensis</i>	Bandhan	
19	<i>Dillenia indica</i>	Ou	To be planted in area having good soil depth
20	<i>Feronia limonia</i>	Kaitha	
21	<i>Ficus benghalensis</i>	Bara	
22	<i>Ficus racemosa</i>	Dimiri, Dumer	
23	<i>Ficus religiosa</i>	Aswattha	
24	<i>Acacia auriculiformis</i>		
25	<i>Phoenix sylvestris</i>	Khajuri	
26	<i>Pithecolobium dulce</i>	Simakayan	
27	<i>Acacia catechu</i>	Khair	
28	<i>Acacia nilotica</i>	Babul	
29	<i>Artocarpus heterophyllus</i>	Jack fruit	
30	<i>Bauhinia variegata</i>	Kuler	
31	<i>Boswellia serrata</i>	Salai	
32	<i>Bridelta retusa</i>	Kasi	
33	<i>Buchanania lanzan</i>	Char	
34	<i>Calophyllum inophyllum</i>	Polanga	
35	<i>Cassia fistula</i>	Sunari	
36	<i>Ceiba pentandra</i>	White silk cotton	
37	<i>Chloroxylon swietiana</i>	Bheru	
38	<i>Cleistanthus collinus</i>	Karada	
39	<i>Albizia lebbek</i>	Siris	
40	<i>Albizia procera</i>	White Siris	
41	<i>Mimusops elengi</i>	Baula	Ornamental plant for avenue plantation
42	<i>Anacardium occidentale</i>	Cashew nut	

d) **Soil and Moisture Conservation Works :-**

Since most of the areas are hilly and undulating, half-moon trenches on down-hill side of plants should be constructed.

Vegetative palisades and Loose Boulder Check dams will be constructed in gullies to prevent soil erosion and reduce velocity of water.

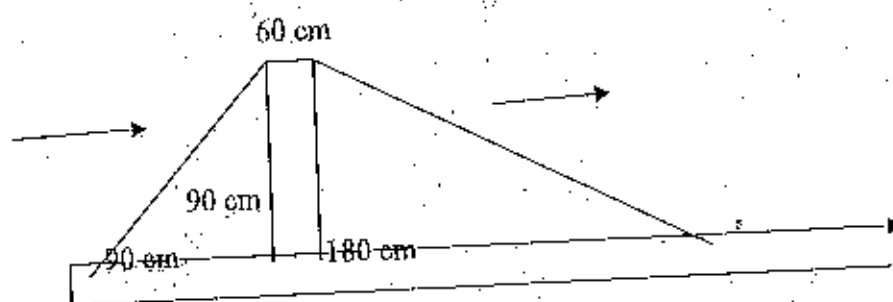
Loose Boulder Check Dams in gullies

This is suitable where boulders are available nearby. Loose Boulder Check Dams should be constructed on the following principles :-

- Height of the dam should be the height of the bank or 90 cm whichever is higher.
- Series of check dams should be constructed on the gullies. Bottom level of Check Dam situated on higher slope and top level of the Check Dam located downstream should be same.

- Check Dam or any Soil Conservation Measure should start from the top where the erosion starts and move downwards.
- Check Dam should be constructed where the gully or nala is narrowest and the bank is strong. The tendency of constructing big check dams at wide and accessible points should be avoided.
- For construction of loose boulder check dams as big stones as possible to fit the design should be used and small stones may be used to fill interstices to make the structure stable.
- If possible the construction of loose boulder check dams should be done before plantation is taken up in the area to prevent damage of seedlings.

The following simple design should be followed for loose boulder check dams.



Top width of the check dam will be 60 cm

Foundation and apron should be 25 cm thick.

Height of check dam above the foundation should be 90 cm or height of the bank whichever is higher.

Uphill side width should be same as that of height of the dam.

Downhill side width should be twice that of height of the dam.

Uphill side apron should be 30 cm and downhill side apron should be 90 cm.

Spillway of 1 mtr long and 30 cm deep may be provided on top of check dam for flowing of excess water.

As per the drawing shown above, the volume calculation for a 2 mtr long check dam will be:-

Foundation	$4.5 \text{ mtr wide} \times 2 \text{ mtr long} \times 0.25 \text{ mtr deep} = 2.25 \text{ cu.mtr}$
Super structure	$(3.3\text{m} + 0.6\text{m})/2 \times 0.9\text{m} \times 2 \text{ mtr} = 3.51 \text{ cu.mtr}$
Volume	$= 2.25 \text{ cu.mtr} + 3.51 \text{ cu. mtr} = 5.76 \text{ cu.m}$

Volume of stone work for a 2 mtr long loose boulder check dam is 5.76 cu.m.

Volume of check dams of different lengths can be calculated accordingly.

Estimate of a standard loose boulder check dam is furnished at Annexure-V

The bank should be dressed vertically and base area should be level. The earth should be kept for filling interstices of the check dam.

The length of check dam should be 50 cm longer than the width of the nala so that 25 cm on each side should be dovetailed into the bank.

Cross-section of the proposed dam should be marked on the vertical nala bank and the stones should be set properly.

In this Compensatory Afforestation area gullies will be treated with loose boulder check dams measuring a total length of 600 running mtrs will be constructed.

Vegetative palisade on gullies: Its function is like that of loose boulder check dam but is much cheaper where brushwood is available locally.

Small poles of about 120 cm length of species having the capacity to propagate from cuttings like *Boswellia serrata*, *Lannea coromandelica*, *Erythrina variegata*, *Simuruba glauca*, *Ficus* spp or any other species are put across gully in two rows of 1 mtr apart. These small poles will be planted by digging crowbar holes of 30 cm depth so that about 90 cm remains above the ground. Small branches and twigs to be intertwined between these poles to strengthen it. If necessary these poles may be fixed with the bank with pegs and ropes. The space between these two rows should be filled with brushwood and compacted. When water passes through such vegetative palisade, velocity is reduced and sedimentation takes place. This is very effective in small gullies.

In this Compensatory Afforestation area small drainage line/gullies will be treated with vegetative palisade for which palisades measuring a total length of 200 running mtrs will be constructed.

e) **Protection of the plantation:** - 7 strand Barbed wire fence with RCC pillars all along the periphery of the plantation will be provided. Few watchers will also be engaged for protection of the plantation.

6. **Proposed Monitoring Mechanism:** - The scheme shall be executed by the Divisional Forest Officer, Kalahandi South Division with his staff and all prescribed records are to be maintained. In addition to internal monitoring by Forest Officers of State Government, a Monitoring Committee under item no. 3.4(iii) of consolidated guidelines under F.C Act

1980 issued by MoEF, shall be established with a nominee of the Central Government to oversee that the stipulations, including those pertaining to Compensatory Afforestation are carried out.

7. **Total cost of the project:** The total cost of the project is Rs.27, 59, 46,777.00 (Rupees twenty seven crore fifty nine lakh forty six thousand seven hundred seventy seven only) as detailed in Annexure-I which shall be payable by the user agency to the D.F.O, Kalahandi South Division.


Divisional Forest Officer
Kalahandi South Division

OFFICE OF THE COLLECTOR & DISTRICT MAGISTRATE: KALAHANDI

No. 341 /Rev. Date: 04.04.2014

To,

Divisional Forest Officer (South)
Kalahandi, Bhawanipatna

Sub: Filling of requisition for Compensatory Aforestation - allocation of non-forest Govt. land.

Ref: Your letter No. 139 / 3F dated 07.03.2014.

Sir,

I am to say that non-forest Government land measuring to an area of 2548.084 Ha, under Th.Rampur Tahasil has been identified and allotted for raising compensatory forestation in lieu of the forest land pertaining to lease hold area of the granted mining leases in favour of M/S. OMC Ltd., Bhubaneswar.

As such, you are requested to file necessary requisition in Form No.1 before the Tahasildar, Th.Rampur for processing alienation proposal for sanction of the land in favour of Forest Department immediately.

Yours faithfully,

Collector,
Kalahandi

Memo No.

342

/Rev. Date:

04.04.2014

Copy alongwith joint verification reports & Maps forwarded to Tahasildar, Th.Rampur for information. He is requested to process the alienation proposal in favour of the Forest Department on obtaining the requisition from the Divisional Forest Officer (South), Kalahandi

Collector,
Kalahandi

Memo No.

343

/Rev. Date:

04.04.2014

Copy to Sub-Collector, Bhawanipatna for information and necessary action.

Collector,
Kalahandi

Memo No.

344

/Rev. Date:

04.04.2014

Copy to Chairman-cum-MD, OMC Ltd., Odisha, Bhubaneswar for information and necessary action.

Collector,
Kalahandi

OFFICE OF THE COLLECTOR & DISTRICT MAGISTRATE: KALAHANDI

No. 486 /Rev- Date: 6.4.2017

To,

Divisional Forest Officer (South)
Kalahandi, Bhawanipatna

Sub: Allotment of Govt. land for Compensatory Aforestation.

Ref: Your letter No.1420 dated 04.04.2017.

Sir,

With reference to the above cited subject, I am to say that the enclosed schedule of non-forest Government land measuring Ac. 220.704 equivalent to 89.316 Hectare under Th.Rampur Tahasil has been identified for allocation in favour of OMC Ltd, for raising compensatory aforestation in lieu of diversion of equivalent forest land pertaining to Dubna-Sakradhi Mining leases of OMC Ltd., Bhubaneswar.

You are requested to please file requisition in Form No.1-A before Tahasildar, Th.Rampur for processing alienation proposal for sanction of the land in favour of Forest & Environment Department immediately.

Enc: as above.

Yours faithfully,

[Signature]
Collector,
Kalahandi

Memo No. 487 /Rev. Date: 6.4.2017

Copy to Tahasildar, Th.Rampur for information. He is requested to process the alienation proposal in favour of the Forest Department on obtaining the requisition from the Divisional Forest Officer (South), Kalahandi.

[Signature]
Collector,
Kalahandi

Memo No. 488 /Rev. Date: 6.4.2017

Copy to Sub-Collector, Bhawanipatna for information and necessary action.

[Signature]
Collector,
Kalahandi

Memo No. 489 /Rev. Date: 6.4.2017

Copy to Chairman-cum-Managing Director, OMC Ltd, Bhubaneswar with reference to his letter No. 2079/OMC dated 10.02.2017 for information and necessary action.

[Signature]
Collector,
Kalahandi

SMA (F&E)
DM (L-2)-II

[Signature]
10/4/17

[Signature]
10/4/17



OFFICE OF THE DIVISIONAL FOREST OFFICER KALAHANDI SOUTH DIVISION
 A/Po-Parmanandapur, Bhawanipatna, Ward No. 4, Rly Station Road Dist-Kalahandi, Odisha, Pin code-768002
 Phone & Tele Fax No.-06070-230260 (O) (E-Mail ID: dfokalahandisouth@odisha.gov.in & dfokids@gmail.com)

Memo No-
 To, The Collector,
 Kalahandi.

Subj: Identification and allocation of non-forest Govt. land for compensatory Afforestation.
 Ref:- Your letter No. 291 Dt. 27.02.2017

Madam,

With reference to the above-cited correspondence on the captioned subject, the joint verification report of non-forest Govt. land in respect of Village Silet of Thudmul Rampur Tahasil of Kalahandi District, proposed for compensatory Afforestation towards Dubna-Sakradhi Iron Ore Mines of Odisha Mining Corporation Ltd. in the District of Keonjhar Odisha, In this regard Tahasildar Th. Ramgaur has submitted joint verification report vide his letter no. 4341 dt. 31.03.2017.

As such I would request you to kindly alienate the aforesaid suitable non-forest land over an area of 89.316 Ha. in favour of the under signed for taking up compensatory Afforestation purpose at the earliest.

Encl:- Joint verification report alongwith Maps.

Yours faithfully,

Divisional Forest Officer,
 Kalahandi South Division

Memo No- 1421

Copy forwarded to Chairman-cum-Managing Director, UMC Ltd. Bhubaneswar for

information & necessary action.

Divisional Forest Officer,
 Kalahandi South Division

JOINT VERIFICATION REPORT OF NON-FOREST GOVERNMENT LAND IN DIFFERENT VILLAGES UNDER THUAMUL RAMPUR TAHASIL OF KALAHANDI DISTRICT FOR RAISING COMPENSATORY AFFORESTATION (ANR & BLOCK PLANTATION) AGAINST MINING PROJECTS OF M/S O.M.C. LTD. LOCATED IN THE DISTRICT OF SUNDARGARH, KEONJHAR AND JAIPUR ODISHA

Certified that on joint verification of non-forest Government land (Kissam-Dangar) in different villages of Thuamul Rampur Tahasil of Kalahandi district, it is found that the schedule wise land mentioned against each village as given under is suitable for ANR and Block Plantation and are free from encroachment and encumbrances.

Name of the mines	Name of the Village	Khata No.	Plot No.	Total area of the plot in Acr	Area recommended for Compensatory	Kissam	Type of plantation in ha	
							Block 1600nos of plants/ha	ANR 300nos. of plants/ha
Seremda Bhadrasahi Iron and Manganese Mines	Balangi	122 Abada Ajogya Anabadi	1	55	55	Dangar	NIL	445.72Ha.
			4	4.63	4.63	Dangar		
			6	17.08	17.08	Dangar		
			9	20.45	20.45	Dangar		
			14	37.75	37.75	Dangar		
			16	14	14	Dangar		
			19	2.46	2.46	Dangar		
			21	52.63	52.63	Dangar		
			22	4.2	4.2	Dangar		
			30	35.25	35.25	Dangar		
			31	15	15	Dangar		
			32	22.5	22.5	Dangar		
			33	34.38	34.38	Dangar		
			34	1.16	1.16	Dangar		
			35	14.58	14.58	Dangar		
			37	28.25	28.25	Dangar		
			38	19.2	19.2	Dangar		
			39	6.25	6.25	Dangar		
			41	1.38	1.38	Dangar		
			43	6.6	6.6	Dangar		
			46	1.68	1.68	Dangar		
			89	19.58	19.58	Dangar		
			91	6.88	6.88	Dangar		
			93	35.31	35.31	Dangar		
			102	17.95	6.87	Dangar		
			105	1.19	1.19	Dangar		
			116	1.79	1.79	Dangar		
			139	36.63	36.63	Dangar		
			151	4.42	4.42	Dangar		
			158	1.09	1.09	Dangar		
			337	1.45	1.45	Dangar		
			429	4.24	4.24	Dangar		
			426	1.74	1.74	Dangar		
			432	7.45	7.45	Dangar		
			435	2.88	2.88	Dangar		
			443	1.12	1.12	Dangar		
			447	2.01	2.01	Dangar		
			449	1.4	1.4	Dangar		
			504	27.5	27.5	Dangar		
			506	8.42	8.42	Dangar		
			508	2.98	2.98	Dangar		

Name of the mines	Name of the Village	Khata No.	Plot No.	Total area of the plot in Acr	Area recommend ed for Compensato ry	Kissam	Type of plantation in ha	
							Block 1600nos of plants/ha	ANR 300nos. of plants/ha
Sreemda Bhadrasahi Iron and Manganese Mines	Balangi	122 Abada Ajogya Anabadi	523	11.06	11.06	Dangar		
			539	5.52	5.52	Dangar		
			552	19.75	19.75	Dangar		
			670	6.13	6.13	Dangar		
			688	12.07	12.07	Dangar		
			720	37	37	Dangar		
			721	40	40	Dangar		
			722	30	30	Dangar		
			723	27.95	27.95	Dangar		
			724	28.5	28.5	Dangar		
			725	5.82	5.82	Dangar		
			752	1.92	1.92	Dangar		
			755	28.5	28.5	Dangar		
			756	33.7	33.7	Dangar		
			768	3.5	3.5	Dangar		
			773	1.7	1.7	Dangar		
			792	24.7	24.7	Dangar		
			793	14.25	14.25	Dangar		
			817	7.75	7.75	Dangar		
			822	3.16	3.16	Dangar		
			935	21.4	21.4	Dangar		
			936	20.75	20.75	Dangar		
			940	12.25	12.25	Dangar		
			941	2.77	2.77	Dangar		
			950	3.16	3.16	Dangar		
			952	20.2	20.2	Dangar		
			953	23.08	23.08	Dangar		
			983	7.3	7.3	Dangar		
			1023	27.25	27.25	Dangar		
			1024	30.5	30.5	Dangar		
			1048	20.38	20.38	Dangar		
			Sub-Total in Acr		1101.40			
			Sub-Total in Ha.		445.72			
	Badachhatranga	172 Abada Ajogya Anabadi	15	28.75	28.75	Dangar	200 Ha.	135.55Ha.
			21	16.88	16.88	Dangar		
			77	2.15	2.15	Dangar		
			71	4.67	4.67	Dangar		
			242	6.68	6.68	Dangar		
			388	31.88	31.88	Dangar		
			439	1.15	1.15	Dangar		
			470	10.75	10.75	Dangar		
			473	8.58	8.58	Dangar		
			476	4.01	4.01	Dangar		
			516	35.25	35.25	Dangar		
			519	5.83	5.83	Dangar		
			526	20.95	20.95	Dangar		
			536	27.53	27.53	Dangar		
			538	27.25	27.25	Dangar		
			544	25.33	25.33	Dangar		

Name of the mines	Name of the Village	Khata No.	Plot No.	Total area of the plot in Acr	Area recommend ed for Compensato ry	Kissam	Type of plantation in ha					
							Block 1600nos of plants/ha	ANR 300nos. of plants/ha				
Seremda Bhadrasahi Iron and Manganese Mines	Badachhatranga	172 Abada Ajogya Anabadi	547	15.5	15.5	Dangar						
			561	4.6	4.6	Dangar						
			574	28.83	28.83	Dangar						
			577	47.83	47.83	Dangar						
			579	21.58	21.58	Dangar						
			588	25	25	Dangar						
			602	35.75	35.75	Dangar						
			613	27.2	27.2	Dangar						
			622	19.25	19.25	Dangar						
			630	4.6	4.6	Dangar						
			632	5	5	Dangar						
			706	19.6	19.6	Dangar						
			714	8.13	8.13	Dangar						
			723	2.3	2.3	Dangar						
			725	4.38	4.38	Dangar						
			727	1.88	1.88	Dangar						
			729	1.28	1.28	Dangar						
			731	18	18	Dangar						
			820	17.5	17.5	Dangar						
			822	3.62	3.62	Dangar						
			831	6.6	6.6	Dangar						
			838	14.27	14.27	Dangar						
			858	27.63	27.63	Dangar						
			860	40.83	40.83	Dangar						
			861	30.45	30.45	Dangar						
			878	38.48	38.48	Dangar						
			947	2.5	2.5	Dangar						
			950	5.8	5.8	Dangar						
			952	4.6	4.6	Dangar						
			983	23.2	23.2	Dangar						
			985	18.08	18.08	Dangar						
			997	30.5	30.5	Dangar						
			1030	26.75	16.75	Dangar						
			Sub-Total in Acr			829.16						
			Sub-Total in Ha.			335.55						
	Dumerpadar		210 Abada Ajogya Anabadi	1126	28.07	28.07	Dangar	36.422Ha.	Nill			
				1202	11.08	11.08	Dangar					
				1214	1.85	1.85	Dangar					
				1215	4.90	4.90	Dangar					
				1306	2.02	2.02	Dangar					
				1307	3.14	3.14	Dangar					
				1308	39.85	38.94	Dangar					
				Sub-Total in Acr			90.000					
Sub-Total in Ha.				36.422								
Grand Total in Acr				2020.54								
Grand Total in Ha.				817.692								
						1	28.23			28.23	Dangar	
	2	15.78	15.78			Dangar						
	3	17.18	17.18			Dangar						

Name of the mines	Name of the Village	Khata No.	Plot No.	Total area of the plot in Acr.	Area recommended for Compensation	Kissam	Type of plantation in ha	
							Block 1600nos of plants/ha	ANR 300nos. of plants/ha
Dubna-Sakradih Iron and Manganese Mines	Uperjhabhi	90 Abada Ajogya Anabadi	4	16.6	16.6	Dangar	200Ha.	160.05Ha.
			5	33.65	33.65	Dangar		
			20	82.6	82.6	Dangar		
			21	32.13	32.13	Dangar		
			24	10.5	10.5	Dangar		
			45	10.03	10.03	Dangar		
			65	6.09	6.09	Dangar		
			84	8.73	8.73	Dangar		
			87	12	12	Dangar		
			91	50	50	Dangar		
			93	6.13	6.13	Dangar		
			108	38.2	38.2	Dangar		
			111	38.17	38.17	Dangar		
			112	39.9	39.9	Dangar		
			113	28.65	28.65	Dangar		
			114	11.35	11.35	Dangar		
			168	64.39	64.39	Dangar		
			381	40.95	40.95	Dangar		
			382	31.8	31.8	Dangar		
			573	63.03	63.03	Dangar		
			574	25.5	25.5	Dangar		
			575	25.94	25.94	Dangar		
			576	17.15	17.15	Dangar		
			577	8.78	8.78	Dangar		
			652	10.15	10.15	Dangar		
			699	22.13	22.13	Dangar		
			710	63.35	63.35	Dangar		
			721	35.57	30.62	Dangar		
			Sub-Total in Acr		889.71			
			Sub-Total in Ha.		360.05			
	Pokhariguda	50 Abada Ajogya Anabadi	173	4.35	4.35	Dangar	150Ha.	155.16Ha.
			174	21.6	21.6	Dangar		
			186	27.83	27.83	Dangar		
			377	31.23	31.23	Dangar		
			390	37.55	37.55	Dangar		
			391	26.88	26.88	Dangar		
			392	42.55	42.55	Dangar		
			393	29.1	29.1	Dangar		
			394	28.58	28.58	Dangar		
			548	2.77	2.77	Dangar		
			559	9.89	9.89	Dangar		
			565	16.33	16.33	Dangar		
			575	0.92	0.92	Dangar		
			577	40.5	40.5	Dangar		
			592	36.45	36.45	Dangar		
			611	0.92	0.92	Dangar		
			613	2.33	2.33	Dangar		
			616	10.67	10.67	Dangar		
			618	25.75	25.75	Dangar		

Name of the mines	Name of the Village	Khata No.	Plot No.	Total area of the plot in Acr	Area recommended for Compensation	Kissam	Type of plantation in ha	
							Block 1600nos of plants/ha	ANR 300nos. of plants/ha
Dubna-Sakradih Iron and Manganes Mines	Pokhariguda	50 Abada Ajogya Anabadi	619	36.98	36.98	Dangar		
			630	9.28	9.28	Dangar		
			653	19.95	19.95	Dangar		
			654	22.85	22.85	Dangar		
			655	21.75	21.75	Dangar		
			665	10.75	10.75	Dangar		
			673	3.65	3.65	Dangar		
			675	28.5	28.5	Dangar		
			676	37.88	37.88	Dangar		
			677	10.95	10.95	Dangar		
			678	17.3	17.3	Dangar		
			681	30.3	30.3	Dangar		
			682	12.25	12.25	Dangar		
			683	38	38	Dangar		
			684	17.75	17.75	Dangar		
			685	41.53	39.73	Dangar		
			Sub-Total in Acr		754.07			
			Sub-Total in Ha.		305.16			
	Kumjore	69 Abada Ajogya Anabadi	1	60.3	60.3	Dangar		
			2	53.55	53.55	Dangar		
			21	36.88	36.88	Dangar		
			38	3.5	3.5	Dangar		
			43	65.28	65.28	Dangar		
			46	1.38	1.38	Dangar		
			89	1.96	1.96	Dangar		
			104	3.96	3.96	Dangar		
			157	14.32	14.32	Dangar		
			181	45.05	45.05	Dangar		
			188	41.08	41.08	Dangar		
			189	42.88	42.88	Dangar		
			209	72.05	72.05	Dangar		
			241	13.25	13.25	Dangar		
			294	47.55	47.55	Dangar		
			319	51.48	51.48	Dangar		
			321	36.55	1.16	Dangar		
			Sub-Total in Acr		555.63			
			Sub-Total in Ha.		224.85			
			Grand Total in Acr		2199.397			
			Grand Total in Ha.		890.066			
Saruabil-Sukurangi Chromite Mines	Dumerpadar	210 Abada Ajogya Anabadi	1501	11.88	10.8	Dangar		
			1508	30.63	25.29	Dangar		
			1508/1523	17.45	17.45	Dangar	21.668Ha.	Nill
			Grand Total in Acr		53.54			
			Grand Total in Ha.		21.668			
			392	26.77	19.27	Dangar		
			401	100.95	100.95	Dangar	Nill	87.826Ha.
			402	48.74	48.74	Dangar		

Name of the mines	Name of the Village	Khata No.	Plot No.	Total area of the plot in Acr	Area recommended for Compensation	Kissam	Type of plantation in ha	
							Block 1600nos of plants/ha	ANR 300nos. of plants/ha
Koira-Bhanjapali	Kunjore	69 Abada Ajogya Anabadi	408	62.7	48.07	Dangar		
			Grand Total in Acr		217.03			
			Grand Total in Ha.		87.826			
Rantha Iron Ore Mines	Talajhabhi	83 Abada Ajogya Anabadi	141	1.99	1.99	Dangar	80Ha.	31.32Ha.
			142	1.59	1.59	Dangar		
			143	6.13	6.13	Dangar		
			171	9.75	9.75	Dangar		
			184	6.45	6.45	Dangar		
			187	7	7	Dangar		
			188	10.58	10.58	Dangar		
			189	7.5	7.5	Dangar		
			585	13.1	13.1	Dangar		
			586	1.14	1.14	Dangar		
			590	0.9	0.9	Dangar		
			591	0.7	0.7	Dangar		
			592	0.7	0.7	Dangar		
			593	0.8	0.8	Dangar		
			594	0.55	0.55	Dangar		
			595	0.54	0.54	Dangar		
			596	7	7	Dangar		
			597	3.46	3.46	Dangar		
			598	0.68	0.68	Dangar		
			599	0.7	0.7	Dangar		
			667	6.7	6.7	Dangar		
			668	14.45	14.45	Dangar		
			669	9.25	9.25	Dangar		
			671	1.17	1.17	Dangar		
			672	2.31	2.31	Dangar		
			673	11.2	11.2	Dangar		
			784	12.45	12.45	Dangar		
			786	1.4	1.4	Dangar		
			842	40.5	40.5	Dangar		
			852	9.63	9.63	Dangar		
			856	10.95	10.95	Dangar		
			857	8.75	8.75	Dangar		
			863	8.33	8.33	Dangar		
			864	27.75	27.75	Dangar		
			865	29	29	Dangar		
			Sub-Total in Acr		275.10			
			Sub-Total in Ha.		111.32			
	Jhabiguda	26 Abada Ajogya Anabadi	1	70.98	70.98	Dangar	80Ha.	51.97Ha.
			13	7.05	7.05	Dangar		
			14	1.3	1.3	Dangar		
			38	71.88	71.88	Dangar		
			159	33.78	33.78	Dangar		
			160	35.93	35.93	Dangar		
			191	6.66	6.66	Dangar		

Name of the mines	Name of the Village	Khata No.	Plot No.	Total area of the plot in Acr	Area recommended for Compensation	Kissam	Type of plantation in ha	
							Block 1600nos of plants/ha	ANR 300nos. of plants/ha
Rantha Iron Ore Mines			192	29.4	29.4	Dangar		
			191/193	34.48	34.48	Dangar		
			160/194	19.58	19.58	Dangar		
			159/195	15.95	15.06	Dangar		
			Sub-Total in Acr		326.10			
			Sub-Total in Ha.		131.97			
	Birmalguda	75 Abada Ajogya Anabadi	700	25.05	15.10	Dangar	6.11Ha.	Nil
			Sub-Total in Acr		15.10			
			Sub-Total in Ha.		6.11			
			Grand Total in Acr		616.30			
			Grand Total in Ha.		249.40			
Dalki Iron and Manganese ore Mines	Pokhra	70 Abada Ajogya Anabadi	1	15.48	15.48	Dangar		
			2	25.58	25.58	Dangar		
			3	50.6	50.6	Dangar		
			4	52.58	52.58	Dangar		
			5	35.98	35.98	Dangar		
			6	30.48	30.48	Dangar		
			7	0.88	0.88	Dangar		
			8	0.62	0.62	Dangar		
			9	0.21	0.21	Dangar		
			10	3.98	3.98	Dangar		
			11	9.85	9.85	Dangar		
			14	17.69	17.69	Dangar		
			32	0.95	0.95	Dangar		
			135	29	29	Dangar	120Ha.	57.084Ha
			140	4.22	4.22	Dangar		
			148	19.57	19.57	Dangar		
			162	2.18	2.18	Dangar		
			167	9.43	9.43	Dangar		
			168	58.8	58.8	Dangar		
			171	7.78	7.78	Dangar		
			179	16.68	16.68	Dangar		
			185	2.43	2.43	Dangar		
			345	4.24	4.24	Dangar		
			352	21.45	21.45	Dangar		
			431	24.93	16.92	Dangar		
			Grand Total in Acr		437.58			
			Grand Total in Ha.		177.084			
			1	4.21	4.21	Dangar		
			2	6.83	6.83	Dangar		
			4	4.65	4.65	Dangar		
			5	3.65	3.65	Dangar		
			6	5.75	5.75	Dangar		
			26	6.45	6.45	Dangar		

Name of the mines	Name of the Village	Khata No.	Plot No.	Total area of the plot in Acr	Area recommended for Compensation	Kissam	Type of plantation in ha	
							Block 1600nos of plants/ha	ANR 300nos. of plants/ha
Bansapani Iron Ore Mines	Kathkura	156 Abada Ajogya Anabadi	27	8.29	8.29	Dangar	100Ha.	35.944Ha.
			28	7.75	7.75	Dangar		
			29	7.76	7.76	Dangar		
			30	4.61	4.61	Dangar		
			32	5.75	5.75	Dangar		
			33	4.05	4.05	Dangar		
			39	14.25	14.25	Dangar		
			40	7.88	7.88	Dangar		
			58	8.7	8.7	Dangar		
			59	6.25	6.25	Dangar		
			62	10.79	10.79	Dangar		
			63	11.5	11.5	Dangar		
			65	11.35	11.35	Dangar		
			66	5	5	Dangar		
			67	6	6	Dangar		
			78	10.25	10.25	Dangar		
			76	0.84	0.84	Dangar		
			79	8.62	8.62	Dangar		
			83	9	9	Dangar		
			84	0.28	0.28	Dangar		
			85	0.35	0.35	Dangar		
			86	0.95	0.95	Dangar		
			87	0.18	0.18	Dangar		
			89	3.86	3.86	Dangar		
			90	10	10	Dangar		
			91	16.5	16.5	Dangar		
			92	7.5	7.5	Dangar		
			93	10	10	Dangar		
			94	2	2	Dangar		
			98	14.75	14.75	Dangar		
			122	3.17	3.17	Dangar		
			143	8.75	8.75	Dangar		
			145	10	10	Dangar		
			418	35.36	35.36	Dangar		
			426	29.35	29.35	Dangar		
			519	10.25	2.74	Dangar		
			Grand Total in Acr.		335.92			
			Grand Total in Ha.		135.944			
Koira-Kashira Iron Ore Mines	Birmalguda	75 abada Ajogya Anabadi	173	28.6	28.6	Dangar	60Ha.	43.13Ha.
			174	20.25	20.25	Dangar		
			224	21.85	21.85	Dangar		
			225	13.25	13.25	Dangar		
			226	36.98	36.98	Dangar		
			227	3.9	3.9	Dangar		
			621	3.2	3.2	Dangar		
			643	17.7	17.7	Dangar		
			683	22.4	22.4	Dangar		
			697	23.88	23.88	Dangar		
			698	39.38	39.38	Dangar		

Name of the mines	Name of the Village	Khata No.	Plot No.	Total area of the plot in Acre	Area recommended for compensation	Kissam	Type of plantation in ha	
							Block 1600nos of plants/ha	ANR 300nos. of plants/ha
Kairia-Kashira Iron Ore Mines			699	29.5	23.33	Dangar		
			Sub-Total in Acre		254.72			
			Sub-Total in Ha.		103.13			
	Sanadarla	96 Abada Ajogya Anubadi	73	58.05	58.05	Dangar	40Ha.	23.29Ha.
			71	15.08	15.08	Dangar		
			197	27.96	27.96	Dangar		
			415	37.5	37.5	Dangar		
			616	11.18	11.18	Dangar		
			639	6.63	6.63	Dangar		
			Sub-Total in Acre		156.40			
			Sub-Total in Ha.		63.29			
			Grand Total in Acre		411.19			
			Grand Total in Ha.		166.40			

Revenue Inspector
Thummul Rampur
Badchatarang

Forest Officer
Thummul Rampur

Forest Range Officer
Thummul Rampur South Range

Tahasildar
Thummul Rampur

Divisional Forest Officer
Kalahandi South Division

JOINT VERIFICATION REPORT OF NON-FOREST GOVT LAND IN VILLAGE SILET UNDER THIRAMPUR TALASHI OF KALAHANDI DISTRICT FOR RAISING COMPENSATORY AFFORESTATION AGAINST DUBNA-SAKRADIHI MINING LEASE OF OMC LTD LOCATED IN THE DISTRICT OF KEONJHAR, ODISHA.

Certified that on joint verification of non-forest Govt land (Kissam-Dangar) in Village Silet of Thirampur Talashi of Kalahandi District, it is found that the schedule wise land mentioned as given under is free from encroachments and encumbrances, does not comes under DLE land and FR Settlement.

Talash	Village	Khatn No.	Plot No.	Kissam	Total area of the plot (Acr)	Area considered (Acr)
THIRAMPUR	SILET	36 (AAA)	1	Dangar	11.85	9.042
			2	Dangar	29.75	20.446
			3	Dangar	29.50	23.025
			4	Dangar	17.89	15.645
			5	Dangar	12.20	12.16
			6	Dangar	26.75	26.192
			7	Dangar	16.10	7.368
			8	Dangar	20.80	11.965
			11	Dangar	20.00	4.116
			12	Dangar	30.00	17.799
			13	Dangar	37.50	10.234
			15	Dangar	20.33	20.925
			17	Dangar	20.20	18.064
			215	Dangar	38.45	16.738
			216	Dangar	28.00	15.590

TOTAL AREA CONSIDERED: 220.704 Ac or 89.316 ha.

Revenue Inspector
Nakarundi
Revenue Inspector
Nakarundi

Forest Officer
Forestal Sector
Thirampur

Range Officer
Thirampur (N)
Thirampur

Talash Officer
Thirampur
Thirampur

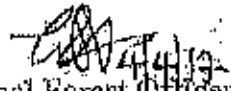


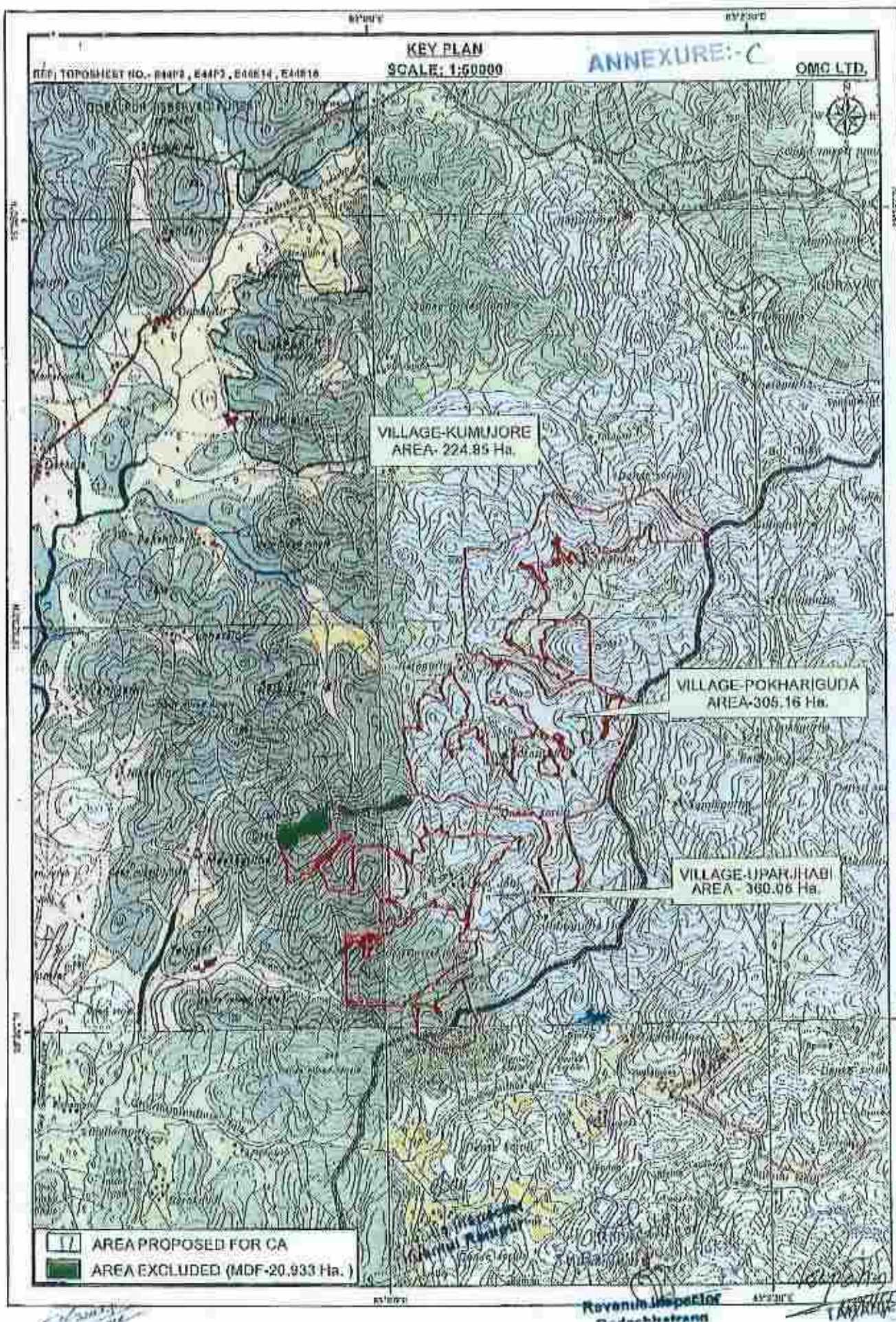
OFFICE OF THE DIVISIONAL FOREST OFFICER KALAHANDI SOUTH DIVISION

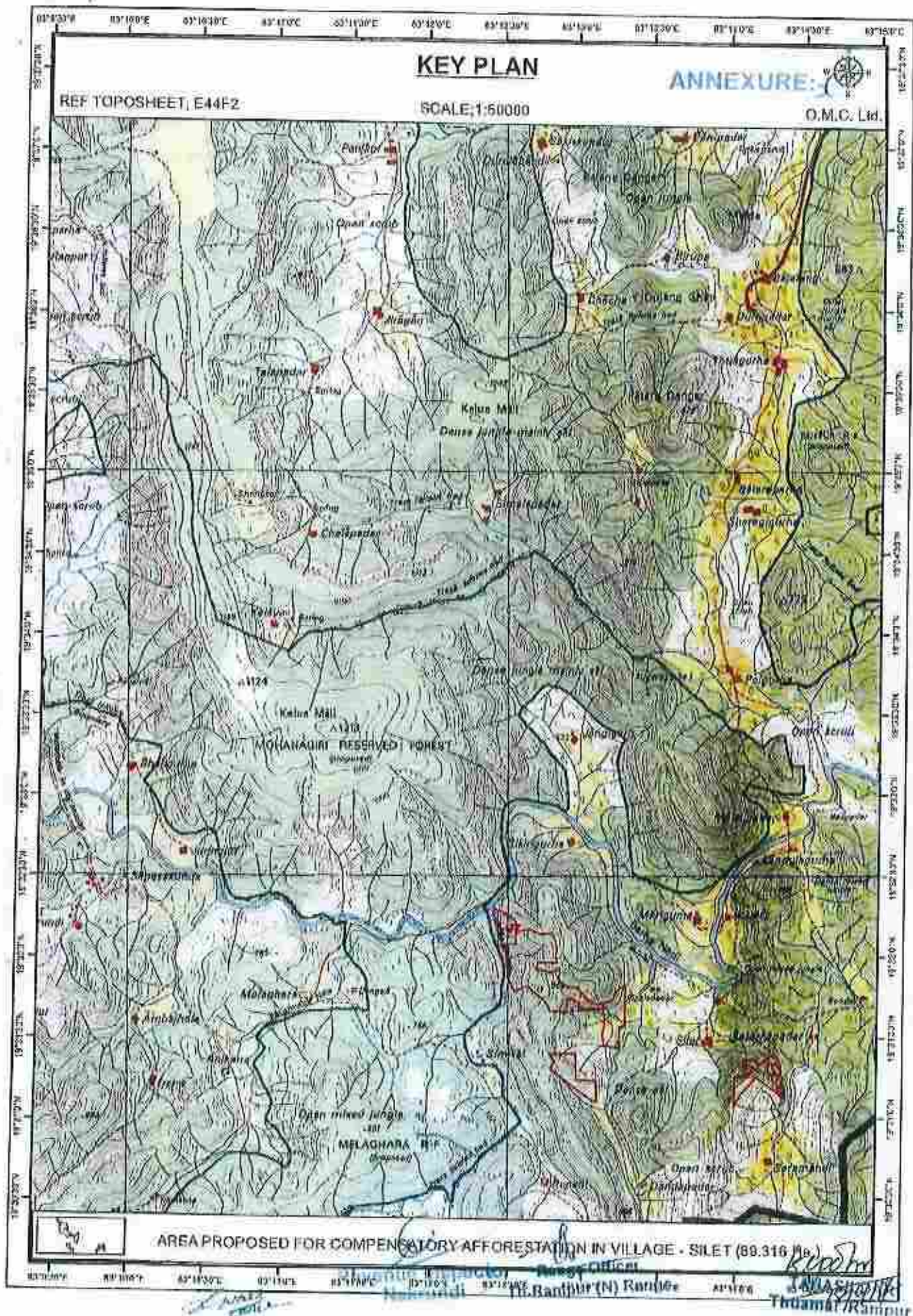
ANP-Parmanandapur, Bhawanipatna, Ward No. 4, N. B. Stallin Road Dist-Kalahandi, Odisha, Pin code-768002
Phone & Tele Fax No. 06670-260268 (O) E-Mail ID: dfokalahandisouth.od@gmail.in & dfokide0@gmail.com

SITE SUITABILITY CERTIFICATE

This is to certify that, the proposed land of 89.316 ha. is found suitable for Bald hill plantation. The land is located in Villages Silet under Th. Rampur North Range of Kalahandi South Division, for raising compensatory afforestation against Dubna-Sakradhji Iron Ore Mines of OMC Ltd.


Divisional Forest Officer,
Kalahandi South Division.





ANNEXURE-IV

GPS READING OF THE AREA PROPOSED FOR COMPENSATORY AFFORESTATION

Station		Backward Bearing	Forward Bearing	Distance in mtr	Co-ordinates	
From	To				Latitude	Longitude
VILLAGE: UPPER JHABI (Ref. Plate No. IX A)						
A. PATCH-1						
1	2	275°23'20"	95°23'20"	17.61	19° 31' 19.867" N	82° 59' 33.389" E
2	3	264°03'58"	84°03'56"	252.71	19° 31' 19.806" N	82° 59' 33.989" E
3	4	266°14'53"	86°14'54"	40.44	19° 31' 20.561" N	82° 59' 42.619" E
4	5	266°59'13"	86°59'14"	25.17	19° 31' 20.631" N	82° 59' 44.004" E
5	6	272°09'40"	92°09'40"	35.08	19° 31' 20.665" N	82° 59' 44.866" E
6	7	297°20'13"	117°20'13"	87.87	19° 31' 20.609" N	82° 59' 46.068" E
7	8	265°02'49"	85°02'48"	199.18	19° 31' 19.267" N	82° 59' 48.728" E
8	9	261°09'29"	81°09'30"	120.50	19° 31' 19.751" N	82° 59' 55.540" E
9	10	249°11'35"	69°11'36"	106.14	19° 31' 20.308" N	82° 59' 59.630" E
10	11	233°47'49"	53°47'51"	79.51	19° 31' 21.496" N	83° 0' 3.048" E
11	12	252°32'10"	72°32'10"	61.72	19° 31' 22.999" N	83° 0' 5.267" E
12	13	248°50'20"	68°50'19"	21.99	19° 31' 23.579" N	83° 0' 7.293" E
13	14	265°22'19"	85°22'19"	139.36	19° 31' 23.829" N	83° 0' 7.999" E
14	15	265°14'10"	85°14'11"	47.79	19° 31' 24.142" N	83° 0' 12.767" E
15	16	266°04'55"	86°04'54"	48.40	19° 31' 24.253" N	83° 0' 14.402" E
16	17	284°46'59"	104°46'59"	49.26	19° 31' 24.342" N	83° 0' 16.059" E
17	18	303°29'31"	123°29'31"	159.42	19° 31' 23.915" N	83° 0' 17.687" E
18	19	261°05'06"	81°05'06"	68.29	19° 31' 21.004" N	83° 0' 22.211" E
19	20	231°54'40"	51°54'40"	124.38	19° 31' 21.323" N	83° 0' 24.529" E
20	21	284°48'14"	104°48'14"	95.78	19° 31' 23.780" N	83° 0' 27.917" E
21	22	300°01'05"	120°01'05"	103.13	19° 31' 22.940" N	83° 0' 31.083" E
22	23	292°20'53"	112°20'53"	128.73	19° 31' 21.238" N	83° 0' 34.124" E
23	24	277°44'53"	97°44'53"	98.13	19° 31' 19.601" N	83° 0' 38.187" E
24	25	275°30'43"	95°30'43"	75.76	19° 31' 19.133" N	83° 0' 41.516" E
25	26	278°23'49"	98°23'49"	140.41	19° 31' 18.868" N	83° 0' 44.099" E
26	27	301°28'37"	121°28'37"	38.00	19° 31' 18.148" N	83° 0' 48.854" E
27	28	297°21'00"	117°21'00"	64.79	19° 31' 17.491" N	83° 0' 49.957" E
28	29	264°36'40"	84°36'39"	35.21	19° 31' 16.501" N	83° 0' 51.919" E
29	30	277°16'01"	97°16'01"	99.36	19° 31' 16.595" N	83° 0' 53.122" E
30	31	261°58'59"	81°58'58"	94.85	19° 31' 16.149" N	83° 0' 56.497" E
31	32	306°11'35"	126°11'35"	168.02	19° 31' 16.543" N	83° 0' 59.723" E
32	33	344°34'41"	164°34'41"	19.90	19° 31' 13.265" N	83° 1' 4.333" E
33	34	345°57'50"	165°57'50"	81.82	19° 31' 12.639" N	83° 1' 4.507" E
34	35	336°32'28"	156°32'28"	76.43	19° 31' 10.051" N	83° 1' 5.155" E
35	36	21°15'04"	201°15'04"	140.52	19° 31' 7.760" N	83° 1' 6.170" E
36	37	31°47'56"	211°47'56"	38.91	19° 31' 3.521" N	83° 1' 4.371" E
37	38	48°37'19"	228°37'19"	74.05	19° 31' 2.454" N	83° 1' 3.654" E
38	39	358°59'10"	178°59'10"	74.76	19° 31' 0.883" N	83° 1' 1.729" E
39	40	340°02'28"	160°02'28"	133.71	19° 30' 58.453" N	83° 1' 1.744" E
40	41	336°55'34"	156°55'34"	160.33	19° 30' 54.349" N	83° 1' 3.259" E
41	42	347°28'16"	167°28'16"	24.39	19° 30' 49.529" N	83° 1' 5.354" E

Signature
Range Inspector
Thuamail Rampur

Signature
Range Officer
Th. Rampur South Range

Signature
18/11/22
TAHASILDAR
Thuamail Rampur

42	43	356°49'12"	176°49'12"	47.70	19° 30' 48.753" N	83° 1' 5.526" E
43	44	94°19'55"	274°19'55"	43.78	19° 30' 47.203" N	83° 1' 5.597" E
44	45	150°58'19"	330°58'19"	137.68	19° 30' 47.327" N	83° 1' 4.102" E
45	46	127°07'01"	307°07'01"	30.69	19° 30' 51.267" N	83° 1' 1.859" E
46	47	67°42'50"	247°42'50"	43.61	19° 30' 51.879" N	83° 1' 1.028" E
47	48	8°19'34"	188°19'34"	54.82	19° 30' 51.356" N	83° 0' 59.638" E
48	49	352°15'07"	172°15'07"	98.13	19° 30' 49.596" N	83° 0' 59.343" E
49	50	73°36'40"	253°36'40"	70.33	19° 30' 46.429" N	83° 0' 59.758" E
50	51	66°14'24"	246°14'24"	132.98	19° 30' 45.810" N	83° 0' 57.436" E
51	52	57°11'28"	237°11'28"	155.04	19° 30' 44.115" N	83° 0' 53.242" E
52	53	39°08'38"	219°08'38"	146.70	19° 30' 41.433" N	83° 0' 48.740" E
53	54	55°35'31"	235°35'31"	58.53	19° 30' 37.769" N	83° 0' 45.518" E
54	55	21°09'40"	201°09'40"	43.98	19° 30' 36.712" N	83° 0' 43.849" E
55	56	101°38'02"	281°38'02"	45.92	19° 30' 35.385" N	83° 0' 43.289" E
56	57	92°51'43"	272°51'43"	39.74	19° 30' 35.703" N	83° 0' 41.750" E
57	58	107°33'36"	287°33'36"	109.62	19° 30' 35.783" N	83° 0' 40.390" E
58	59	72°36'47"	252°36'47"	68.62	19° 30' 36.898" N	83° 0' 36.820" E
59	60	123°41'24"	303°41'24"	57.24	19° 30' 36.256" N	83° 0' 34.566" E
60	61	207°56'13"	27°56'14"	49.42	19° 30' 37.307" N	83° 0' 32.946" E
61	62	138°22'01"	318°22'01"	15.93	19° 30' 38.717" N	83° 0' 33.757" E
62	63	186°15'50"	6°15'49"	109.13	19° 30' 39.109" N	83° 0' 33.399" E
63	64	192°38'31"	12°38'32"	72.54	19° 30' 42.631" N	83° 0' 33.851" E
64	65	181°23'24"	1°23'25"	136.30	19° 30' 44.926" N	83° 0' 34.424" E
65	66	214°03'40"	34°03'39"	56.69	19° 30' 49.355" N	83° 0' 34.592" E
66	67	185°27'36"	5°27'37"	90.37	19° 30' 50.870" N	83° 0' 35.699" E
67	68	214°28'01"	34°28'02"	94.67	19° 30' 53.792" N	83° 0' 36.030" E
68	69	295°12'04"	115°12'04"	24.86	19° 30' 56.309" N	83° 0' 37.899" E
69	70	246°02'17"	66°02'15"	52.12	19° 30' 55.956" N	83° 0' 38.666" E
70	71	218°09'25"	38°09'26"	23.55	19° 30' 56.627" N	83° 0' 40.308" E
71	72	246°56'56"	66°56'55"	33.79	19° 30' 57.223" N	83° 0' 40.814" E
72	73	201°29'24"	21°29'23"	90.28	19° 30' 57.641" N	83° 0' 41.885" E
73	74	281°27'32"	101°27'32"	49.94	19° 31' 0.360" N	83° 0' 43.053" E
74	75	206°33'54"	26°33'54"	29.58	19° 31' 0.019" N	83° 0' 44.728" E
75	76	252°13'44"	72°13'43"	54.18	19° 31' 0.874" N	83° 0' 45.192" E
76	77	207°45'29"	27°45'31"	42.61	19° 31' 1.392" N	83° 0' 46.968" E
77	78	240°45'04"	60°45'04"	18.95	19° 31' 2.610" N	83° 0' 47.663" E
78	79	160°29'53"	340°29'53"	33.68	19° 31' 2.905" N	83° 0' 48.234" E
79	80	252°34'12"	72°34'12"	59.62	19° 31' 3.942" N	83° 0' 47.861" E
80	81	282°13'30"	102°13'30"	81.22	19° 31' 4.501" N	83° 0' 49.819" E
81	82	267°13'48"	87°13'47"	41.06	19° 31' 3.911" N	83° 0' 52.534" E
82	83	179°29'35"	359°29'35"	74.75	19° 31' 3.960" N	83° 0' 53.941" E
83	84	234°53'17"	54°53'17"	51.75	19° 31' 6.390" N	83° 0' 53.949" E
84	85	170°32'17"	350°32'17"	28.17	19° 31' 7.342" N	83° 0' 55.412" E
85	86	105°56'42"	285°56'42"	33.71	19° 31' 8.247" N	83° 0' 55.265" E
86	87	57°59'42"	237°59'42"	49.92	19° 31' 8.561" N	83° 0' 54.157" E
87	88	143°36'58"	323°36'58"	46.83	19° 31' 7.717" N	83° 0' 52.695" E
88	89	90°45'50"	270°45'50"	99.23	19° 31' 8.953" N	83° 0' 51.757" E

M. S. S.
and

Buy
Inspector
Th. Rampur

Deputy
Range Officer
Th. Rampur South Range

K. P. S. M.
18/11/17
TAHASILDAR
Th. Rampur

89	90	73°09'47"	253°09'47"	52.52	19° 31' 9.034" N	83° 0' 48.355" E
90	91	92°43'34"	272°43'34"	55.63	19° 31' 8.558" N	83° 0' 46.626" E
91	92	113°11'56"	293°11'56"	65.49	19° 31' 8.666" N	83° 0' 44.721" E
92	93	56°18'36"	236°18'36"	35.77	19° 31' 9.527" N	83° 0' 42.668" E
93	94	124°49'26"	304°49'26"	37.07	19° 31' 8.894" N	83° 0' 41.639" E
94	95	106°12'32"	286°12'32"	59.24	19° 31' 9.593" N	83° 0' 40.604" E
95	96	84°33'36"	264°33'36"	83.72	19° 31' 10.153" N	83° 0' 38.660" E
96	97	7°45'54"	187°45'54"	14.69	19° 31' 9.926" N	83° 0' 35.799" E
97	98	89°18'29"	269°18'29"	273.86	19° 31' 9.454" N	83° 0' 35.725" E
98	99	173°39'36"	353°39'36"	17.97	19° 31' 9.451" N	83° 0' 26.333" E
99	100	88°05'28"	268°05'28"	19.86	19° 31' 10.032" N	83° 0' 26.272" E
100	101	220°54'50"	40°54'52"	26.26	19° 31' 10.018" N	83° 0' 25.592" E
101	102	154°26'24"	334°26'24"	16.86	19° 31' 10.657" N	83° 0' 26.189" E
102	103	57°59'42"	237°59'42"	24.96	19° 31' 11.154" N	83° 0' 25.946" E
103	104	143°07'48"	323°07'48"	16.54	19° 31' 10.732" N	83° 0' 25.215" E
104	105	72°25'44"	252°25'44"	41.63	19° 31' 11.166" N	83° 0' 24.880" E
105	106	184°35'38"	4°35'39"	74.32	19° 31' 10.773" N	83° 0' 23.514" E
106	107	99°51'58"	279°51'58"	15.44	19° 31' 13.179" N	83° 0' 23.748" E
107	108	14°02'10"	194°02'10"	27.27	19° 31' 13.271" N	83° 0' 23.227" E
108	109	66°53'10"	246°53'10"	58.97	19° 31' 12.413" N	83° 0' 22.990" E
109	110	354°17'20"	174°17'20"	26.59	19° 31' 11.681" N	83° 0' 21.121" E
110	111	79°49'26"	259°49'26"	78.63	19° 31' 10.820" N	83° 0' 21.201" E
111	112	160°14'28"	340°14'28"	72.39	19° 31' 10.398" N	83° 0' 18.541" E
112	113	118°29'46"	298°29'46"	26.34	19° 31' 12.622" N	83° 0' 17.729" E
113	114	10°07'30"	190°07'30"	18.81	19° 31' 13.040" N	83° 0' 16.941" E
114	115	339°51'50"	159°51'50"	84.54	19° 31' 12.439" N	83° 0' 16.820" E
115	116	60°35'02"	240°35'02"	71.38	19° 31' 9.847" N	83° 0' 17.786" E
116	117	74°52'34"	254°52'34"	25.35	19° 31' 8.731" N	83° 0' 15.640" E
117	118	335°50'46"	155°50'46"	140.64	19° 31' 8.525" N	83° 0' 14.798" E
118	119	68°29'56"	248°29'56"	23.46	19° 31' 4.331" N	83° 0' 16.720" E
119	120	96°05'20"	276°05'20"	49.89	19° 31' 4.059" N	83° 0' 15.968" E
120	121	135°00'00"	315°00'00"	37.42	19° 31' 4.250" N	83° 0' 14.269" E
121	122	92°14'46"	272°14'46"	33.76	19° 31' 5.121" N	83° 0' 13.372" E
122	123	3°40'26"	183°40'26"	144.50	19° 31' 5.177" N	83° 0' 12.216" E
123	124	124°35'49"	304°35'49"	220.18	19° 31' 0.492" N	83° 0' 11.840" E
124	125	29°34'41"	209°34'41"	28.14	19° 31' 4.625" N	83° 0' 5.676" E
125	126	304°33'14"	124°33'14"	170.27	19° 31' 3.835" N	83° 0' 5.190" E
126	127	90°00'00"	270°00'00"	33.07	19° 31' 0.642" N	83° 0' 9.959" E
127	128	1°35'28"	181°35'28"	47.64	19° 31' 0.654" N	83° 0' 8.825" E
128	129	341°50'02"	161°50'02"	89.11	19° 30' 59.106" N	83° 0' 8.761" E
129	130	6°09'32"	186°09'32"	92.48	19° 30' 56.343" N	83° 0' 9.680" E
130	131	350°06'58"	170°06'58"	88.63	19° 30' 53.357" N	83° 0' 9.303" E
131	132	35°22'30"	215°22'30"	81.12	19° 30' 50.512" N	83° 0' 9.789" E
132	133	81°42'11"	261°42'11"	32.09	19° 30' 48.380" N	83° 0' 8.152" E
133	134	127°20'56"	307°20'56"	31.62	19° 30' 48.241" N	83° 0' 7.062" E
134	135	65°25'59"	245°25'59"	25.46	19° 30' 48.874" N	83° 0' 6.208" E

Buy
Revenue Inspector
Thumal Rampur

22
Range Officer
Th. Rampur South Range

kept in
18/4/17
TAHASILDA
Thumal Rampur

135	136	13°23'31"	193°23'31"	42.84	19° 30' 48.539" N	83° 0' 5.410" E
136	137	108°59'56"	288°59'56"	79.75	19° 30' 47.188" N	83° 0' 5.053" E
137	138	179°30'18"	359°30'18"	567.16	19° 30' 48.061" N	83° 0' 2.477" E
138	139	90°47'46"	270°47'46"	400.09	19° 31' 6.502" N	83° 0' 2.537" E
139	140	359°08'28"	179°08'28"	476.31	19° 31' 6.835" N	82° 59' 48.821" E
140	141	90°28'19"	270°28'19"	288.94	19° 30' 51.347" N	82° 59' 48.875" E
141	142	163°34'59"	343°34'59"	92.68	19° 30' 51.534" N	82° 59' 38.969" E
142	143	153°26'06"	333°26'06"	21.30	19° 30' 54.434" N	82° 59' 38.106" E
143	144	146°32'49"	326°32'49"	133.19	19° 30' 55.057" N	82° 59' 37.787" E
144	145	190°52'05"	10°52'07"	50.52	19° 30' 58.698" N	82° 59' 35.314" E
145	146	220°34'19"	40°34'18"	83.60	19° 31' 0.308" N	82° 59' 35.660" E
146	147	234°19'26"	54°19'25"	19.05	19° 31' 2.352" N	82° 59' 37.550" E
147	148	290°37'26"	110°37'26"	39.44	19° 31' 2.707" N	82° 59' 38.085" E
148	149	317°57'04"	137°57'04"	27.26	19° 31' 2.241" N	82° 59' 39.345" E
149	150	233°52'52"	53°52'51"	18.18	19° 31' 1.576" N	82° 59' 39.963" E
150	151	155°06'47"	335°06'47"	42.44	19° 31' 1.919" N	82° 59' 40.471" E
151	152	238°23'35"	58°23'33"	24.23	19° 31' 3.178" N	82° 59' 39.874" E
152	153	186°28'59"	6°28'59"	17.58	19° 31' 3.583" N	82° 59' 40.587" E
153	154	228°14'24"	48°14'23"	29.80	19° 31' 4.150" N	82° 59' 40.662" E
154	155	172°11'06"	352°11'06"	20.43	19° 31' 4.787" N	82° 59' 41.432" E
155	156	253°18'04"	73°18'03"	33.15	19° 31' 5.446" N	82° 59' 41.345" E
156	157	218°23'42"	38°23'43"	53.68	19° 31' 5.744" N	82° 59' 42.437" E
157	158	173°39'36"	353°39'36"	14.38	19° 31' 7.099" N	82° 59' 43.597" E
158	159	200°02'13"	20°02'14"	35.91	19° 31' 7.564" N	82° 59' 43.548" E
159	160	236°05'38"	56°05'37"	29.17	19° 31' 8.656" N	82° 59' 43.984" E
160	161	281°01'48"	101°01'48"	47.71	19° 31' 9.176" N	82° 59' 44.820" E
161	162	201°48'04"	21°48'05"	19.24	19° 31' 8.861" N	82° 59' 46.423" E
162	163	265°26'24"	85°26'24"	64.90	19° 31' 9.439" N	82° 59' 46.675" E
163	164	174°36'40"	354°36'40"	21.13	19° 31' 9.583" N	82° 59' 48.895" E
164	165	81°35'49"	261°35'49"	141.22	19° 31' 10.267" N	82° 59' 48.836" E
165	166	47°02'42"	227°02'42"	31.45	19° 31' 9.649" N	82° 59' 44.037" E
166	167	7°47'31"	187°47'31"	38.06	19° 31' 8.961" N	82° 59' 43.239" E
167	168	44°44'42"	224°44'42"	63.14	19° 31' 7.737" N	82° 59' 43.047" E
168	169	91°28'08"	271°28'08"	30.97	19° 31' 6.296" N	82° 59' 41.505" E
169	170	21°19'44"	201°19'44"	44.74	19° 31' 6.333" N	82° 59' 40.444" E
170	171	54°43'08"	234°43'08"	103.07	19° 31' 4.985" N	82° 59' 39.869" E
171	172	47°40'30"	227°40'30"	120.24	19° 31' 3.081" N	82° 59' 36.960" E
172	173	316°36'22"	136°36'22"	30.04	19° 31' 0.482" N	82° 59' 33.879" E
173	174	33°56'38"	213°56'38"	24.88	19° 30' 59.764" N	82° 59' 34.578" E
174	175	50°42'40"	230°42'40"	90.25	19° 30' 59.099" N	82° 59' 34.094" E
175	176	112°00'04"	292°00'04"	42.38	19° 30' 57.267" N	82° 59' 31.676" E
176	177	71°43'55"	251°43'55"	43.05	19° 30' 57.798" N	82° 59' 30.335" E
177	178	31°43'26"	211°43'26"	51.32	19° 30' 57.375" N	82° 59' 28.928" E
178	179	64°30'07"	244°30'07"	28.58	19° 30' 55.965" N	82° 59' 27.985" E
179	180	61°58'48"	241°58'48"	76.88	19° 30' 55.575" N	82° 59' 27.095" E
180	181	92°10'55"	272°10'55"	41.70	19° 30' 54.426" N	82° 59' 24.754" E

Revenue Inspector
Thannul Rampur

Range Officer
Th. Rampur South Range

Kept on
18/11/17
TANAGLOAI
Thannul Rampur

181	182	176°43'44"	356°43'44"	41.74	19° 30' 54.494" N	82° 59' 23.326" E
182	183	173°02'20"	353°02'20"	68.77	19° 30' 55.850" N	82° 59' 23.260" E
183	184	172°55'01"	352°55'01"	67.59	19° 30' 58.072" N	82° 59' 23.002" E
184	185	208°38'53"	28°38'51"	48.84	19° 31' 0.256" N	82° 59' 22.743" E
185	186	145°05'53"	325°05'53"	83.23	19° 31' 1.641" N	82° 59' 23.563" E
186	187	138°51'14"	318°51'14"	54.29	19° 31' 3.878" N	82° 59' 21.957" E
187	188	159°29'35"	339°29'35"	107.63	19° 31' 5.221" N	82° 59' 20.748" E
188	189	167°44'06"	347°44'06"	93.41	19° 31' 8.513" N	82° 59' 19.495" E
189	190	188°54'18"	8°54'17"	87.17	19° 31' 11.488" N	82° 59' 18.851" E
190	191	178°55'08"	358°55'08"	21.04	19° 31' 14.283" N	82° 59' 19.348" E
191	192	275°45'47"	95°45'47"	130.44	19° 31' 14.968" N	82° 59' 19.343" E
192	193	262°52'30"	82°52'30"	48.00	19° 31' 14.493" N	82° 59' 23.788" E
193	194	248°38'56"	68°38'56"	93.75	19° 31' 14.668" N	82° 59' 25.424" E
194	195	224°47'20"	44°47'19"	76.05	19° 31' 15.745" N	82° 59' 28.431" E
195	196	222°56'24"	42°56'24"	39.03	19° 31' 17.480" N	82° 59' 30.290" E
196	1	233°53'56"	53°53'57"	77.85	19° 31' 18.399" N	82° 59' 31.213" E

Perimeter: 14408.10 mtr

B. PATCH-2

1	2	269°50'46"	89°50'47"	88.90	19° 30' 48.094" N	82° 59' 59.046" E
2	3	14°35'20"	194°35'20"	29.94	19° 30' 48.068" N	83° 0' 2.094" E
3	4	292°46'01"	112°46'01"	83.07	19° 30' 47.129" N	83° 0' 1.824" E
4	5	15°38'31"	195°38'31"	10.30	19° 30' 46.055" N	83° 0' 4.438" E
5	6	260°50'17"	80°50'16"	12.46	19° 30' 45.733" N	83° 0' 4.338" E
6	7	298°12'07"	118°12'07"	62.15	19° 30' 45.793" N	83° 0' 4.761" E
7	8	337°14'06"	157°14'06"	48.21	19° 30' 44.818" N	83° 0' 6.627" E
8	9	6°58'05"	186°58'05"	35.99	19° 30' 43.365" N	83° 0' 7.249" E
9	10	79°53'35"	259°53'35"	133.44	19° 30' 42.206" N	83° 0' 7.085" E
10	11	34°03'40"	214°03'40"	68.03	19° 30' 41.494" N	83° 0' 2.571" E
11	12	100°45'04"	280°45'04"	63.83	19° 30' 39.676" N	83° 0' 1.242" E
12	1	178°59'02"	358°59'02"	246.26	19° 30' 40.087" N	82° 59' 59.097" E

Perimeter: 882.56 mtr

C. PATCH-3

1	2	269°51'54"	89°51'55"	224.90	19° 30' 35.799" N	82° 59' 45.418" E
2	3	0°48'25"	180°48'25"	37.58	19° 30' 35.731" N	82° 59' 53.130" E
3	4	51°26'56"	231°26'56"	43.31	19° 30' 34.510" N	82° 59' 53.097" E
4	5	88°45'18"	268°45'18"	73.04	19° 30' 33.645" N	82° 59' 51.925" E
5	6	64°54'14"	244°54'14"	46.16	19° 30' 33.621" N	82° 59' 49.420" E
6	7	45°17'17"	225°17'17"	74.46	19° 30' 33.001" N	82° 59' 47.979" E
7	8	39°17'20"	219°17'20"	52.65	19° 30' 31.317" N	82° 59' 46.144" E
8	9	52°49'44"	232°49'44"	60.43	19° 30' 30.005" N	82° 59' 44.984" E
9	10	128°39'36"	308°39'36"	20.33	19° 30' 28.836" N	82° 59' 43.318" E
10	11	205°30'50"	25°30'50"	25.80	19° 30' 29.255" N	82° 59' 42.779" E
11	12	257°28'16"	77°28'16"	9.76	19° 30' 30.008" N	82° 59' 43.170" E
12	13	206°33'54"	26°33'54"	28.40	19° 30' 30.073" N	82° 59' 43.497" E
13	14	226°25'30"	46°25'30"	75.23	19° 30' 30.894" N	82° 59' 43.943" E
14	15	133°27'07"	313°27'07"	13.85	19° 30' 32.560" N	82° 59' 45.832" E
15	1	177°58'44"	357°58'44"	90.02	19° 30' 32.873" N	82° 59' 45.491" E

Perimeter: 875.90 mtr

D. PATCH-4

Please see

Bay
Ravenshaw Inspector
Th. Rampur South Range

Qal
Range Officer
Th. Rampur South Range

Kupshin
18/11/17
TAHASILDAR
Thuamal Rampur

1	2	84°39'25"	264°39'25"	46.17	19° 30' 35.995" N	82° 59' 57.230" E
2	3	30°04'08"	210°04'08"	7.26	19° 30' 35.873" N	82° 59' 55.652" E
3	4	87°47'49"	267°47'49"	25.82	19° 30' 35.670" N	82° 59' 55.524" E
4	5	6°25'44"	186°25'44"	23.63	19° 30' 35.647" N	82° 59' 54.639" E
5	6	341°05'28"	161°05'28"	63.28	19° 30' 34.885" N	82° 59' 54.539" E
6	7	213°31'05"	33°31'05"	30.55	19° 30' 32.931" N	82° 59' 55.218" E
7	8	148°56'28"	328°56'28"	33.98	19° 30' 33.752" N	82° 59' 55.807" E
8	9	257°46'30"	77°46'30"	20.30	19° 30' 34.705" N	82° 59' 55.218" E
9	10	281°38'02"	101°38'02"	11.48	19° 30' 34.838" N	82° 59' 55.900" E
10	11	290°43'34"	110°43'34"	39.25	19° 30' 34.758" N	82° 59' 56.284" E
11	12	25°24'29"	205°24'29"	14.65	19° 30' 34.293" N	82° 59' 57.538" E
12	13	294°21'11"	114°21'11"	34.49	19° 30' 33.865" N	82° 59' 57.317" E
13	14	219°33'36"	39°33'36"	29.60	19° 30' 33.390" N	82° 59' 58.388" E
14	15	195°31'26"	15°31'27"	24.71	19° 30' 34.125" N	82° 59' 59.044" E
15	16	237°08'38"	57°08'39"	18.90	19° 30' 34.897" N	82° 59' 59.280" E
16	17	184°38'06"	4°38'08"	12.28	19° 30' 35.224" N	82° 59' 59.829" E
17	18	253°42'40"	73°42'40"	53.06	19° 30' 35.622" N	82° 59' 59.868" E
18	19	279°38'17"	99°38'17"	35.56	19° 30' 36.086" N	83° 0' 1.620" E
19	20	202°09'58"	22°09'59"	9.64	19° 30' 35.880" N	83° 0' 2.820" E
20	21	268°01'30"	88°01'30"	9.60	19° 30' 36.169" N	83° 0' 2.948" E
21	22	223°37'30"	43°37'31"	29.24	19° 30' 36.176" N	83° 0' 3.277" E
22	23	190°06'18"	10°06'18"	33.93	19° 30' 36.856" N	83° 0' 3.977" E
23	24	159°43'01"	339°43'01"	16.22	19° 30' 37.940" N	83° 0' 4.195" E
24	25	248°05'49"	68°05'48"	34.58	19° 30' 38.437" N	83° 0' 4.008" E
25	26	323°48'25"	143°48'25"	16.80	19° 30' 38.844" N	83° 0' 5.113" E
26	27	209°08'53"	29°08'53"	19.69	19° 30' 38.399" N	83° 0' 5.448" E
27	28	301°09'32"	121°09'32"	16.62	19° 30' 38.955" N	83° 0' 5.784" E
28	29	270°33'43"	90°33'43"	33.74	19° 30' 38.670" N	83° 0' 6.268" E
29	30	236°34'59"	56°35'00"	38.43	19° 30' 38.646" N	83° 0' 7.425" E
30	31	214°28'19"	34°28'20"	26.88	19° 30' 39.322" N	83° 0' 8.533" E
31	32	233°24'32"	53°24'32"	27.19	19° 30' 40.037" N	83° 0' 9.064" E
32	33	158°11'56"	338°11'56"	26.72	19° 30' 40.556" N	83° 0' 9.819" E
33	34	241°53'13"	61°53'12"	27.37	19° 30' 41.366" N	83° 0' 9.488" E
34	35	312°21'29"	132°21'29"	15.22	19° 30' 41.776" N	83° 0' 10.321" E
35	36	228°48'50"	48°48'51"	17.58	19° 30' 41.439" N	83° 0' 10.703" E
36	37	187°17'20"	7°17'20"	57.35	19° 30' 41.810" N	83° 0' 11.161" E
37	38	237°22'52"	57°22'51"	19.63	19° 30' 43.657" N	83° 0' 11.433" E
38	39	24°37'26"	204°37'26"	26.20	19° 30' 43.995" N	83° 0' 12.005" E
39	40	248°53'56"	68°53'56"	85.44	19° 30' 43.224" N	83° 0' 11.621" E
40	41	256°23'46"	76°23'44"	74.52	19° 30' 44.194" N	83° 0' 14.366" E
41	42	240°04'52"	60°04'51"	121.34	19° 30' 44.737" N	83° 0' 16.857" E
42	43	305°23'42"	125°23'42"	15.42	19° 30' 46.664" N	83° 0' 20.487" E
43	44	6°26'06"	186°26'06"	44.27	19° 30' 46.369" N	83° 0' 20.915" E
44	45	259°59'31"	79°59'31"	45.67	19° 30' 44.941" N	83° 0' 20.727" E
45	46	298°59'06"	118°59'06"	52.55	19° 30' 45.182" N	83° 0' 22.273" E
46	47	279°21'25"	99°21'25"	58.99	19° 30' 44.337" N	83° 0' 23.839" E

Handwritten signature

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Revenue Inspector
Thuamul Rampur

Handwritten signature
Range Officer
Thuamul Rampur
TANASILBAR
Thuamul Rampur

47	48	167°00'18"	347°00'18"	17.65	19° 30' 44.003" N	83° 0' 25.831" E
48	49	243°26'06"	63°26'06"	15.53	19° 30' 44.563" N	83° 0' 25.702" E
49	50	321°57'11"	141°57'11"	28.98	19° 30' 44.784" N	83° 0' 26.181" E
50	51	251°55'41"	71°55'40"	33.05	19° 30' 44.035" N	83° 0' 26.784" E
51	52	345°20'35"	165°20'35"	22.22	19° 30' 44.356" N	83° 0' 27.865" E
52	53	282°31'44"	102°31'44"	9.15	19° 30' 43.655" N	83° 0' 28.050" E
53	54	334°43'37"	154°43'37"	111.55	19° 30' 43.587" N	83° 0' 28.355" E
54	55	278°51'29"	98°51'29"	51.55	19° 30' 40.289" N	83° 0' 29.947" E
55	56	212°14'13"	32°14'12"	43.40	19° 30' 40.012" N	83° 0' 31.691" E
56	57	190°55'48"	10°55'46"	48.84	19° 30' 41.197" N	83° 0' 32.499" E
57	58	128°39'36"	308°39'36"	14.82	19° 30' 42.752" N	83° 0' 32.836" E
58	59	232°03'29"	52°03'28"	24.74	19° 30' 43.058" N	83° 0' 32.443" E
59	60	180°00'00"	0°00'00"	56.22	19° 30' 43.545" N	83° 0' 33.118" E
60	61	304°59'31"	124°59'31"	32.30	19° 30' 45.373" N	83° 0' 33.141" E
61	62	11°04'12"	191°04'12"	77.51	19° 30' 44.761" N	83° 0' 34.041" E
62	63	5°48'43"	185°48'43"	55.52	19° 30' 42.293" N	83° 0' 33.500" E
63	64	4°33'25"	184°33'25"	45.79	19° 30' 40.500" N	83° 0' 33.285" E
64	65	22°49'08"	202°49'08"	124.51	19° 30' 39.017" N	83° 0' 33.142" E
65	66	88°27'43"	268°27'43"	49.30	19° 30' 35.304" N	83° 0' 31.440" E
66	67	359°22'23"	179°22'23"	90.63	19° 30' 35.280" N	83° 0' 29.750" E
67	68	275°05'31"	95°05'31"	33.54	19° 30' 32.333" N	83° 0' 29.747" E
68	69	197°06'11"	17°06'10"	13.50	19° 30' 32.224" N	83° 0' 30.891" E
69	70	273°01'37"	93°01'37"	144.07	19° 30' 32.642" N	83° 0' 31.033" E
70	71	342°59'06"	162°59'06"	63.29	19° 30' 32.339" N	83° 0' 35.963" E
71	72	0°45'14"	180°45'14"	75.41	19° 30' 30.365" N	83° 0' 36.573" E
72	73	57°52'01"	237°52'01"	47.26	19° 30' 27.913" N	83° 0' 36.509" E
73	74	38°44'46"	218°44'46"	34.35	19° 30' 27.111" N	83° 0' 35.127" E
74	75	114°46'30"	294°46'30"	18.94	19° 30' 26.248" N	83° 0' 34.379" E
75	76	64°11'28"	244°11'28"	44.82	19° 30' 26.513" N	83° 0' 33.792" E
76	77	38°53'06"	218°53'06"	26.34	19° 30' 25.894" N	83° 0' 32.401" E
77	78	66°48'04"	246°48'04"	90.68	19° 30' 25.233" N	83° 0' 31.826" E
78	79	59°55'52"	239°55'52"	159.74	19° 30' 24.104" N	83° 0' 28.954" E
79	80	49°54'40"	229°54'40"	128.39	19° 30' 21.554" N	83° 0' 24.181" E
80	81	329°19'23"	149°19'23"	22.69	19° 30' 18.903" N	83° 0' 20.780" E
81	82	70°58'26"	250°58'26"	20.29	19° 30' 18.264" N	83° 0' 21.169" E
82	83	79°15'22"	259°15'22"	65.64	19° 30' 18.057" N	83° 0' 20.509" E
83	84	55°44'24"	235°44'24"	156.86	19° 30' 17.683" N	83° 0' 18.293" E
84	85	321°00'32"	141°00'32"	17.87	19° 30' 14.861" N	83° 0' 13.812" E
85	86	39°54'11"	219°54'11"	50.01	19° 30' 14.405" N	83° 0' 14.192" E
86	87	165°57'50"	345°57'50"	32.73	19° 30' 13.170" N	83° 0' 13.077" E
87	88	57°45'54"	237°45'54"	166.17	19° 30' 14.206" N	83° 0' 12.817" E
88	89	346°07'48"	166°07'48"	27.59	19° 30' 11.377" N	83° 0' 7.962" E
89	90	88°20'10"	268°20'10"	79.74	19° 30' 10.504" N	83° 0' 8.178" E
90	91	173°49'48"	353°49'48"	12.31	19° 30' 10.458" N	83° 0' 5.444" E
91	92	90°09'18"	270°09'18"	473.01	19° 30' 10.857" N	83° 0' 5.404" E
92	93	148°21'36"	328°21'36"	18.46	19° 30' 11.078" N	82° 59' 49.186" E

Praveen

Devi
Revenue Inspector
Tauranai Rampur

Qol
Range Officer
Th. Rampur South Rangpo

Kupdm
8/9/17

93	94	229°02'38"	49°02'40"	11.14	19° 30' 11.592" N	82° 59' 48.861" E
94	95	128°36'29"	308°36'29"	54.45	19° 30' 11.827" N	82° 59' 49.152" E
95	96	46°01'01"	226°01'01"	37.95	19° 30' 12.947" N	82° 59' 47.707" E
96	97	15°28'16"	195°28'16"	18.00	19° 30' 12.101" N	82° 59' 46.760" E
97	98	52°51'50"	232°51'50"	42.73	19° 30' 11.539" N	82° 59' 46.588" E
98	99	179°25'05"	359°25'05"	586.08	19° 30' 10.713" N	82° 59' 45.410" E
99	100	198°43'52"	18°43'51"	24.31	19° 30' 29.770" N	82° 59' 45.440" E
100	101	232°11'35"	52°11'37"	38.85	19° 30' 30.515" N	82° 59' 45.717" E
101	102	219°01'08"	39°01'10"	59.26	19° 30' 31.278" N	82° 59' 46.779" E
102	103	254°29'13"	74°29'14"	72.22	19° 30' 32.761" N	82° 59' 48.076" E
103	104	270°00'00"	90°00'00"	51.86	19° 30' 33.362" N	82° 59' 50.470" E
104	105	230°37'05"	50°37'03"	45.87	19° 30' 33.343" N	82° 59' 52.248" E
105	106	187°45'54"	7°45'55"	47.00	19° 30' 34.276" N	82° 59' 53.475" E
106	107	208°57'04"	28°57'04"	28.42	19° 30' 35.787" N	82° 59' 53.712" E
107	1	281°01'16"	101°01'16"	90.42	19° 30' 36.591" N	82° 59' 54.193" E

Perimeter: 5711.26 mtr

E. PATCH-5

1	2	63°30'18"	243°30'18"	97.09	19° 30' 20.600" N	83° 0' 34.782" E
2	3	60°55'16"	240°55'16"	43.17	19° 30' 19.225" N	83° 0' 31.786" E
3	4	338°55'01"	158°55'01"	168.44	19° 30' 18.557" N	83° 0' 30.484" E
4	5	343°50'35"	163°50'35"	139.77	19° 30' 13.424" N	83° 0' 32.498" E
5	6	330°44'35"	150°44'35"	151.15	19° 30' 9.044" N	83° 0' 33.778" E
6	7	28°21'18"	208°21'18"	75.77	19° 30' 4.728" N	83° 0' 36.258" E
7	8	354°55'52"	174°55'52"	147.93	19° 30' 2.574" N	83° 0' 34.997" E
8	9	65°59'13"	245°59'13"	91.68	19° 29' 57.778" N	83° 0' 35.386" E
9	10	62°52'44"	242°52'44"	36.56	19° 29' 56.597" N	83° 0' 32.500" E
10	11	85°38'35"	265°38'35"	125.38	19° 29' 56.068" N	83° 0' 31.377" E
11	12	85°04'41"	265°04'41"	143.40	19° 29' 55.806" N	83° 0' 27.087" E
12	13	101°24'07"	281°24'07"	48.18	19° 29' 55.460" N	83° 0' 22.184" E
13	14	115°46'41"	295°46'41"	77.57	19° 29' 55.787" N	83° 0' 20.568" E
14	15	123°41'24"	303°41'24"	123.06	19° 29' 56.911" N	83° 0' 18.187" E
15	16	77°52'34"	257°52'34"	54.80	19° 29' 59.169" N	83° 0' 14.703" E
16	17	179°34'05"	359°34'05"	263.14	19° 29' 58.815" N	83° 0' 12.862" E
17	18	270°00'00"	90°00'00"	15.48	19° 30' 7.371" N	83° 0' 12.899" E
18	19	182°25'44"	2°25'45"	65.54	19° 30' 7.366" N	83° 0' 13.430" E
19	20	99°06'18"	279°06'18"	62.70	19° 30' 9.494" N	83° 0' 13.551" E
20	21	147°37'08"	327°37'08"	19.27	19° 30' 9.840" N	83° 0' 11.432" E
21	22	247°26'56"	67°26'57"	50.71	19° 30' 10.373" N	83° 0' 11.085" E
22	23	269°26'10"	89°26'11"	121.05	19° 30' 10.987" N	83° 0' 12.698" E
23	24	343°36'40"	163°36'40"	7.03	19° 30' 10.980" N	83° 0' 16.849" E
24	25	299°57'14"	119°57'14"	54.05	19° 30' 10.760" N	83° 0' 16.915" E
25	26	244°08'02"	64°08'01"	29.11	19° 30' 9.865" N	83° 0' 18.510" E
26	27	337°28'44"	157°28'44"	88.08	19° 30' 10.268" N	83° 0' 19.413" E
27	28	303°41'24"	123°41'24"	40.07	19° 30' 7.609" N	83° 0' 20.537" E
28	29	253°56'24"	73°56'24"	27.26	19° 30' 6.874" N	83° 0' 21.671" E
29	30	154°13'52"	334°13'52"	25.56	19° 30' 7.109" N	83° 0' 22.572" E

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Revenue Inspector
Thuamal Rampo

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Range Officer
Thuamal Rampo South Range

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18/4/19
TANASILDAR
Thuamal Rampo

30	31	141°09'58"	321°09'58"	101.90	19° 30' 7.862" N	83° 0' 22.200" E
31	32	184°03'00"	4°02'59"	44.96	19° 30' 10.467" N	83° 0' 20.041" E
32	33	266°37'59"	86°38'01"	33.79	19° 30' 11.924" N	83° 0' 20.168" E
33	34	223°43'37"	43°43'37"	25.26	19° 30' 11.976" N	83° 0' 21.326" E
34	35	261°24'58"	81°24'59"	21.27	19° 30' 12.563" N	83° 0' 21.932" E
35	36	222°36'50"	42°36'51"	40.45	19° 30' 12.658" N	83° 0' 22.654" E
36	37	259°33'47"	79°33'45"	30.67	19° 30' 13.615" N	83° 0' 23.605" E
37	38	242°10'34"	62°10'33"	48.47	19° 30' 13.784" N	83° 0' 24.641" E
38	39	151°33'25"	331°33'25"	21.67	19° 30' 14.504" N	83° 0' 26.120" E
39	40	207°41'56"	27°41'58"	17.93	19° 30' 15.127" N	83° 0' 25.774" E
40	41	236°45'00"	56°45'00"	71.66	19° 30' 15.640" N	83° 0' 26.066" E
41	42	121°09'32"	301°09'32"	19.94	19° 30' 16.895" N	83° 0' 28.137" E
42	43	214°07'44"	34°07'43"	43.15	19° 30' 17.237" N	83° 0' 27.556" E
43	44	239°53'10"	59°53'11"	22.94	19° 30' 18.389" N	83° 0' 28.400" E
44	45	138°59'28"	318°59'28"	12.10	19° 30' 18.756" N	83° 0' 29.085" E
45	46	246°26'53"	66°26'52"	50.65	19° 30' 19.055" N	83° 0' 28.817" E
46	47	230°11'38"	50°11'40"	24.80	19° 30' 19.696" N	83° 0' 30.417" E
47	48	269°28'41"	89°28'41"	58.08	19° 30' 20.205" N	83° 0' 31.077" E
48	1	255°30'25"	75°30'24"	51.49	19° 30' 20.200" N	83° 0' 33.068" E

Perimeter: 3134.15 mtr

Total Perimeter: 25011.97 mtr or 25.01km

VILLAGE: POKHARIGUDA (Ref. Plate No. JK B)

Station		Forward bearing	Backward bearing	Distance in mtr.	Co-ordinates	
From	To				Longitude	Latitude
1	2	123°04'16"	303°04'16"	13.58	83°00'45.0553"	19°32'15.4458"
2	3	92°08'20"	272°08'20"	63.81	83°00'45.4425"	19°32'15.2005"
3	4	86°17'58"	266°17'56"	53.29	83°00'47.6283"	19°32'15.0988"
4	5	97°13'55"	277°13'55"	52.54	83°00'49.4535"	19°32'15.1903"
5	6	106°17'38"	286°17'38"	125.42	83°00'51.2384"	19°32'14.9553"
6	7	121°20'31"	301°20'31"	41.20	83°00'55.3528"	19°32'13.7651"
7	8	121°54'40"	301°54'40"	85.09	83°00'56.5510"	19°32'13.0548"
8	9	126°21'47"	306°21'47"	119.60	83°00'59.0099"	19°32'11.5647"
9	10	130°57'22"	310°57'22"	37.14	83°01'02.2841"	19°32'09.2224"
10	11	147°36'25"	327°36'25"	74.58	83°01'03.2361"	19°32'08.4202"
11	12	140°19'12"	320°19'12"	92.82	83°01'04.5808"	19°32'06.3575"
12	13	155°49'16"	335°49'16"	56.85	83°01'06.5844"	19°32'04.0121"
13	14	177°49'05"	357°49'05"	27.80	83°01'07.3620"	19°32'02.3171"
14	15	117°56'13"	297°56'13"	59.30	83°01'07.3870"	19°32'01.4134"
15	16	61°41'19"	241°41'20"	97.07	83°01'09.1724"	19°32'00.4900"
16	17	34°52'31"	214°52'30"	63.86	83°01'12.1217"	19°32'01.9541"
17	18	75°11'37"	255°11'38"	85.93	83°01'13.3951"	19°32'03.6434"
18	19	59°06'54"	239°06'54"	32.99	83°01'16.2531"	19°32'04.3256"
19	20	45°00'00"	225°00'00"	42.66	83°01'17.2308"	19°32'04.8653"
20	21	52°04'44"	232°04'44"	28.84	83°01'18.2774"	19°32'05.8344"
21	22	73°30'23"	253°30'25"	49.39	83°01'19.0649"	19°32'06.4020"
22	23	96°02'31"	276°02'31"	72.90	83°01'20.6948"	19°32'06.8398"

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Sub-Range Officer
Th. Rampur South Range

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Range Officer
Th. Rampur South Range

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18/11/17
TAHASILDA
Thuamal Ram

23	24	100°44'46"	280°44'46"	36.90	83°01'23.1779"	19°32'06.5625"
24	25	116°33'54"	296°33'54"	33.13	83°01'24.4182"	19°32'06.3249"
25	26	123°26'24"	303°26'24"	50.41	83°01'25.4284"	19°32'05.8317"
26	27	124°02'46"	304°02'46"	47.26	83°01'26.8598"	19°32'04.9123"
27	28	122°11'46"	302°11'46"	50.65	83°01'28.1920"	19°32'04.0370"
28	29	120°01'44"	300°01'44"	52.87	83°01'29.6510"	19°32'03.1431"
29	30	123°55'01"	303°55'01"	36.99	83°01'31.2100"	19°32'02.2652"
30	31	93°45'25"	273°45'25"	88.83	83°01'32.2542"	19°32'01.5825"
31	32	156°25'05"	336°25'05"	36.38	83°01'35.2914"	19°32'01.3591"
32	33	201°02'17"	21°02'17"	29.48	83°01'35.7769"	19°32'00.2696"
33	34	278°49'48"	98°49'48"	55.16	83°01'35.4028"	19°31'59.3790"
34	35	194°18'58"	14°18'58"	92.02	83°01'33.5371"	19°31'59.6752"
35	36	207°36'47"	27°36'47"	135.86	83°01'32.7207"	19°31'56.7850"
36	37	123°17'02"	303°17'02"	41.46	83°01'30.5124"	19°31'52.8950"
37	38	213°50'06"	33°50'06"	57.97	83°01'31.6917"	19°31'52.1419"
38	39	196°13'55"	16°13'55"	21.77	83°01'30.5653"	19°31'50.5886"
39	40	156°09'40"	336°09'40"	62.19	83°01'30.3481"	19°31'49.9114"
40	41	203°04'12"	23°04'12"	15.53	83°01'31.1870"	19°31'48.0522"
41	42	227°00'36"	47°00'36"	21.34	83°01'30.9725"	19°31'47.5900"
42	43	202°30'25"	22°30'25"	103.68	83°01'30.4313"	19°31'47.1228"
43	44	130°27'43"	310°27'43"	23.65	83°01'29.0315"	19°31'44.0240"
44	45	37°03'08"	217°03'07"	116.37	83°01'29.6423"	19°31'43.5181"
45	46	15°00'18"	195°00'18"	26.57	83°01'32.0843"	19°31'46.5107"
46	47	335°38'13"	155°38'13"	15.39	83°01'32.3306"	19°31'47.3425"
47	48	19°42'29"	199°42'29"	37.66	83°01'32.1186"	19°31'47.8008"
48	49	300°04'08"	120°04'08"	34.85	83°01'32.5685"	19°31'48.9487"
49	50	50°06'08"	230°06'07"	21.04	83°01'31.5412"	19°31'49.5280"
50	51	20°20'52"	200°20'53"	42.61	83°01'32.1001"	19°31'49.9606"
51	52	41°39'08"	221°39'07"	67.28	83°01'32.6244"	19°31'51.2539"
52	53	141°14'42"	321°14'42"	49.88	83°01'34.1782"	19°31'52.8711"
53	54	26°50'50"	206°50'49"	24.02	83°01'35.2331"	19°31'51.5946"
54	55	111°09'00"	291°09'00"	38.87	83°01'35.6138"	19°31'52.2872"
55	56	3°52'35"	183°52'34"	129.15	83°01'36.8512"	19°31'51.8173"
56	57	12°55'08"	192°55'08"	134.91	83°01'37.2029"	19°31'56.0034"
57	58	293°53'02"	113°53'02"	78.42	83°01'38.2906"	19°32'00.2672"
58	59	91°00'18"	271°00'18"	30.17	83°01'35.8446"	19°32'01.3271"
59	60	90°44'38"	270°44'38"	40.75	83°01'36.8788"	19°32'01.2983"
60	61	150°58'19"	330°58'19"	55.07	83°01'38.2759"	19°32'01.2654"
61	62	114°54'18"	294°54'18"	24.50	83°01'39.1728"	19°31'59.6895"
62	63	123°30'40"	303°30'40"	46.97	83°01'39.9307"	19°31'59.3454"
63	64	123°18'04"	303°18'04"	75.66	83°01'41.2631"	19°31'58.4873"
64	65	120°24'18"	300°24'18"	51.23	83°01'43.4148"	19°31'57.1124"
65	66	209°38'06"	29°38'06"	68.49	83°01'44.9195"	19°31'56.2523"
66	67	192°20'20"	12°20'20"	26.00	83°01'43.7339"	19°31'54.3298"
67	68	193°02'46"	13°02'46"	66.81	83°01'43.5331"	19°31'53.5061"
68	69	189°33'47"	9°33'47"	49.37	83°01'42.9895"	19°31'51.3957"
69	70	190°48'14"	10°48'14"	35.29	83°01'42.6884"	19°31'49.8160"
70	71	214°21'14"	34°21'14"	25.32	83°01'42.4475"	19°31'48.6916"
71	72	205°56'31"	25°56'31"	21.77	83°01'41.9491"	19°31'48.0175"
72	73	205°52'34"	25°52'34"	334.65	83°01'41.6145"	19°31'47.3846"

W. S. S. S.

Buy
Revenue Inspector
Thuanai Rampur

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Range Officer
Th. Rampur South Pargana

Kepdhn
18/9/17
TANASILAKAN
Thuanai Ramp

73	74	229°17'20"	49°17'20"	30.02	83°01'36.4839"	19°31'37.6511"
74	75	211°27'22"	31°27'22"	222.08	83°01'35.6956"	19°31'37.0233"
75	76	194°02'10"	14°02'10"	41.45	83°01'31.6448"	19°31'30.9084"
76	77	199°49'55"	19°49'55"	34.31	83°01'31.2837"	19°31'29.6047"
77	78	203°27'32"	23°27'32"	30.57	83°01'30.8714"	19°31'28.5597"
78	79	185°35'56"	5°35'56"	27.12	83°01'30.4427"	19°31'27.6525"
79	80	191°46'34"	11°46'34"	165.95	83°01'30.3410"	19°31'26.7761"
80	81	190°24'29"	10°24'29"	26.36	83°01'29.1139"	19°31'21.5071"
81	82	235°10'34"	55°10'34"	133.44	83°01'28.9400"	19°31'20.6659"
82	83	257°48'32"	77°48'32"	175.41	83°01'25.1530"	19°31'18.2305"
83	84	227°57'40"	47°57'40"	43.46	83°01'19.2588"	19°31'17.0919"
84	85	254°11'28"	74°11'28"	91.30	83°01'18.1401"	19°31'16.1580"
85	86	250°46'08"	70°46'08"	96.40	83°01'15.1179"	19°31'15.3830"
86	87	181°44'10"	1°44'10"	17.47	83°01'11.9840"	19°31'14.3856"
87	88	165°30'00"	345°30'00"	348.72	83°01'11.9588"	19°31'13.8181"
88	89	81°34'23"	261°34'23"	28.89	83°01'14.8163"	19°31'02.8077"
89	90	149°44'38"	329°44'38"	14.70	83°01'15.7979"	19°31'02.9344"
90	91	207°45'29"	27°45'29"	11.36	83°01'16.0468"	19°31'02.5187"
91	92	159°32'53"	339°32'53"	171.13	83°01'15.8613"	19°31'02.1938"
92	93	208°49'52"	28°49'52"	65.84	83°01'17.8468"	19°30'56.9577"
93	94	189°22'19"	9°22'19"	55.24	83°01'16.7348"	19°30'55.0946"
94	95	109°47'56"	289°47'56"	28.12	83°01'16.4043"	19°30'53.3259"
95	96	201°05'31"	21°05'31"	79.40	83°01'17.3077"	19°30'53.0060"
96	97	292°50'02"	112°50'02"	10.91	83°01'16.2979"	19°30'50.6083"
97	98	241°41'56"	61°41'56"	23.44	83°01'15.9549"	19°30'50.7498"
98	99	204°34'01"	24°34'01"	20.36	83°01'15.2428"	19°30'50.3964"
99	100	302°16'34"	122°16'34"	11.89	83°01'14.9449"	19°30'49.7974"
100	101	246°09'40"	66°09'40"	99.51	83°01'14.6028"	19°30'50.0078"
101	102	254°38'35"	74°38'35"	77.92	83°01'11.4656"	19°30'48.7350"
102	103	287°06'11"	107°06'11"	21.59	83°01'08.8807"	19°30'48.0928"
103	104	243°26'06"	63°26'06"	23.67	83°01'08.1756"	19°30'48.3072"
104	105	203°48'22"	23°48'22"	117.99	83°01'07.4455"	19°30'47.9712"
105	106	357°04'55"	177°04'55"	135.11	83°01'05.7689"	19°30'44.4796"
106	107	338°11'56"	158°11'56"	25.65	83°01'05.5875"	19°30'48.8695"
107	108	336°49'34"	156°49'34"	160.02	83°01'05.2705"	19°30'49.6474"
108	109	337°27'11"	157°27'11"	128.34	83°01'03.1706"	19°30'54.4545"
109	110	357°58'59"	177°58'59"	75.19	83°01'01.5309"	19°30'58.3273"
110	111	48°29'33"	228°29'33"	79.85	83°01'01.4705"	19°31'00.7714"
111	112	31°50'57"	211°50'57"	41.12	83°01'03.5423"	19°31'02.4691"
112	113	21°48'05"	201°48'05"	139.63	83°01'04.3004"	19°31'03.5963"
113	114	337°19'08"	157°19'08"	76.85	83°01'06.1309"	19°31'07.7917"
114	115	346°08'56"	166°08'56"	79.57	83°01'05.1434"	19°31'10.1085"
115	116	342°28'26"	162°28'26"	21.09	83°01'04.5214"	19°31'12.6278"
116	117	307°28'52"	127°28'52"	168.71	83°01'04.3117"	19°31'13.2840"
117	118	259°35'10"	79°35'10"	99.54	83°00'59.7623"	19°31'16.6730"
118	119	276°38'20"	96°38'20"	100.69	83°00'56.3981"	19°31'16.1255"
119	120	270°51'18"	90°51'18"	35.46	83°00'52.9732"	19°31'16.5422"
120	121	298°12'29"	118°12'29"	66.05	83°00'51.7576"	19°31'16.5730"
121	122	303°03'22"	123°03'22"	39.78	83°00'49.7742"	19°31'17.6103"
122	123	278°19'12"	98°19'12"	135.30	83°00'48.6397"	19°31'18.3285"

Shweta
SAC

Buy
Revenue Inspector
Thuamal Rongpur

Deo
Range Officer
Th. Rongpur South Range

Kepshn
18/1/17
TAHASIL
Thuamal Ra

123	124	275°03'25"	95°03'25"	60.03	83°00'44.0567"	19°31'19.0162"
124	125	277°35'42"	97°35'42"	24.02	83°00'42.0083"	19°31'19.2111"
125	126	278°52'16"	98°52'16"	92.65	83°00'41.1931"	19°31'19.3234"
126	127	291°45'25"	111°45'25"	127.06	83°00'38.0596"	19°31'19.8228"
127	128	301°45'36"	121°45'36"	104.56	83°00'34.0319"	19°31'21.3991"
128	129	281°48'25"	101°48'25"	95.69	83°00'31.0055"	19°31'23.2223"
129	130	231°24'47"	51°24'47"	130.66	83°00'27.8015"	19°31'23.8946"
130	131	257°37'08"	77°37'08"	66.64	83°00'24.2666"	19°31'21.2839"
131	132	304°12'36"	124°12'36"	161.89	83°00'22.0289"	19°31'20.8441"
132	133	290°15'25"	110°15'25"	47.38	83°00'17.4745"	19°31'23.8544"
133	134	264°37'23"	84°37'23"	45.18	83°00'15.9568"	19°31'24.4046"
134	135	328°29'46"	148°29'46"	19.24	83°00'14.4126"	19°31'24.2841"
135	136	355°45'50"	175°45'50"	28.65	83°00'14.0744"	19°31'24.8213"
136	137	333°04'48"	153°04'48"	114.54	83°00'14.0133"	19°31'25.7512"
137	138	352°18'00"	172°18'00"	189.56	83°00'12.2759"	19°31'29.0915"
138	139	337°39'00"	157°39'00"	164.21	83°00'11.4802"	19°31'35.2090"
139	140	16°37'52"	196°37'52"	42.53	83°00'09.3998"	19°31'40.1707"
140	141	16°50'38"	196°50'38"	60.27	83°00'09.8335"	19°31'41.4908"
141	142	344°17'28"	164°17'28"	123.13	83°00'10.4555"	19°31'43.3596"
142	143	351°31'44"	171°31'44"	75.44	83°00'09.3597"	19°31'47.2262"
143	144	98°01'01"	278°01'01"	37.94	83°00'09.0086"	19°31'49.6564"
144	145	23°11'55"	203°11'56"	24.18	83°00'10.2949"	19°31'49.4701"
145	146	96°57'11"	276°57'11"	21.86	83°00'10.6304"	19°31'50.1891"
146	147	71°50'02"	251°50'02"	35.64	83°00'11.3734"	19°31'50.0948"
147	148	120°12'11"	300°12'11"	41.02	83°00'12.5393"	19°31'50.4432"
148	149	100°18'18"	280°18'18"	23.67	83°00'13.7468"	19°31'49.7587"
149	150	140°51'22"	320°51'22"	29.34	83°00'14.5436"	19°31'49.6122"
150	151	32°16'32"	212°16'34"	23.78	83°00'15.1696"	19°31'48.8654"
151	152	128°45'58"	308°45'58"	44.79	83°00'15.6132"	19°31'49.5143"
152	153	43°21'48"	223°21'47"	13.10	83°00'16.7996"	19°31'48.5892"
153	154	319°09'50"	139°09'50"	97.92	83°00'17.1120"	19°31'48.8954"
154	155	57°37'09"	237°37'08"	25.69	83°00'14.9459"	19°31'51.3285"
155	156	2°02'43"	182°02'42"	59.31	83°00'15.6955"	19°31'51.7676"
156	157	316°16'23"	136°16'23"	16.84	83°00'15.7918"	19°31'53.6938"
157	158	356°17'56"	176°17'56"	106.59	83°00'15.3975"	19°31'54.0940"
158	159	20°28'20"	200°28'19"	42.36	83°00'15.2042"	19°31'57.5548"
159	160	331°00'40"	151°00'40"	44.77	83°00'15.7283"	19°31'58.8396"
160	161	97°25'52"	277°25'52"	12.27	83°00'15.0000"	19°32'00.1210"
161	162	23°52'31"	203°52'30"	35.30	83°00'15.4167"	19°32'00.0648"
162	163	62°42'01"	242°42'00"	55.38	83°00'15.9196"	19°32'01.1089"
163	164	19°17'24"	199°17'24"	33.64	83°00'17.6175"	19°32'01.9160"
164	165	66°36'53"	246°36'54"	21.33	83°00'18.0114"	19°32'02.9441"
165	166	96°15'14"	276°15'14"	38.86	83°00'18.6862"	19°32'03.2119"
166	167	114°03'00"	294°03'00"	70.12	83°00'20.0093"	19°32'03.0595"
167	168	127°49'08"	307°49'08"	95.79	83°00'22.1936"	19°32'02.1061"
168	169	62°32'56"	242°32'56"	45.92	83°00'24.7651"	19°32'00.1675"
169	170	329°53'56"	149°53'56"	84.41	83°00'26.1710"	19°32'00.8402"
170	171	342°01'52"	162°01'52"	61.75	83°00'24.7485"	19°32'03.2306"
171	172	29°44'42"	209°44'42"	46.93	83°00'24.1188"	19°32'05.1477"
172	173	12°54'33"	192°54'54"	85.24	83°00'24.9337"	19°32'06.4636"

Small

Boy
Range Officer
Th. Rampur South Range

Qel
Range Officer
Th. Rampur South Range

Kipom
18/4/17
TAHASILDA
Thuamai Ram

173	174	47°57'03"	227°57'04"	109.03	83°00'25.6204"	19°32'09.1575"
174	175	102°02'35"	282°02'35"	40.58	83°00'28.4263"	19°32'11.5010"
175	176	176°49'12"	356°49'12"	47.70	83°00'29.7840"	19°32'11.2106"
176	177	155°43'34"	335°43'34"	59.21	83°00'29.8555"	19°32'09.6611"
177	178	148°36'36"	328°36'36"	36.57	83°00'30.6686"	19°32'07.8969"
178	179	146°47'35"	326°47'35"	34.78	83°00'31.3094"	19°32'06.8745"
179	180	140°06'25"	320°06'25"	88.28	83°00'31.9510"	19°32'05.9210"
180	181	152°58'08"	332°58'08"	145.55	83°00'33.8655"	19°32'03.6971"
181	182	209°10'05"	29°10'05"	78.18	83°00'36.0817"	19°31'59.4566"
182	183	187°22'05"	7°22'05"	61.90	83°00'34.7477"	19°31'57.2517"
183	184	131°05'56"	311°05'56"	33.00	83°00'34.4508"	19°31'55.2589"
184	185	203°39'29"	23°39'29"	60.66	83°00'35.2950"	19°31'54.5440"
185	186	261°52'12"	81°52'12"	63.61	83°00'34.4378"	19°31'52.7468"
186	187	165°37'48"	345°37'48"	66.10	83°00'32.2747"	19°31'52.4783"
187	188	228°30'11"	48°30'11"	18.37	83°00'32.8115"	19°31'50.3902"
188	189	328°34'12"	148°34'12"	33.49	83°00'32.3348"	19°31'49.9997"
189	190	237°00'54"	57°00'54"	131.22	83°00'31.7475"	19°31'50.9355"
190	191	241°17'38"	61°17'38"	25.34	83°00'27.9442"	19°31'48.6547"
191	192	206°33'54"	26°33'54"	68.63	83°00'27.1771"	19°31'48.2675"
192	193	188°49'12"	8°49'12"	93.18	83°00'26.0999"	19°31'46.2834"
193	194	192°37'08"	12°37'08"	36.33	83°00'25.5730"	19°31'43.2951"
194	195	128°33'04"	308°33'04"	86.61	83°00'25.2865"	19°31'42.1454"
195	196	166°03'14"	346°03'14"	81.24	83°00'27.5876"	19°31'40.3646"
196	197	79°52'31"	259°52'30"	15.05	83°00'28.2274"	19°31'37.7936"
197	198	349°10'23"	169°10'23"	98.59	83°00'28.7365"	19°31'37.8740"
198	199	88°50'34"	268°50'35"	104.80	83°00'28.1403"	19°31'41.0296"
199	200	72°34'43"	252°34'41"	32.17	83°00'31.7342"	19°31'41.0585"
200	201	318°28'30"	138°28'30"	37.04	83°00'32.7906"	19°31'41.3590"
201	202	346°04'44"	166°04'44"	25.51	83°00'31.9597"	19°31'42.2708"
202	203	7°58'11"	187°58'12"	32.06	83°00'31.7592"	19°31'43.0784"
203	204	247°42'50"	67°42'50"	13.95	83°00'31.9244"	19°31'44.1090"
204	205	353°59'28"	173°59'28"	8.09	83°00'31.4795"	19°31'43.9419"
205	206	289°44'49"	109°44'49"	17.54	83°00'31.4537"	19°31'44.2037"
206	207	337°55'55"	157°55'55"	16.90	83°00'30.8899"	19°31'44.4027"
207	208	90°41'24"	270°41'24"	30.78	83°00'30.6784"	19°31'44.9144"
208	209	351°56'35"	171°56'35"	46.82	83°00'31.6541"	19°31'45.1444"
209	210	89°17'02"	269°17'02"	50.80	83°00'31.4477"	19°31'46.6541"
210	211	351°42'11"	171°42'11"	10.27	83°00'33.1900"	19°31'46.6554"
211	212	63°48'43"	243°48'43"	28.78	83°00'33.1433"	19°31'46.9863"
212	213	112°53'28"	292°53'28"	10.34	83°00'34.0340"	19°31'47.3894"
213	214	57°34'37"	237°34'37"	135.41	83°00'34.3590"	19°31'47.2550"
214	215	132°39'29"	312°39'29"	40.30	83°00'38.3079"	19°31'49.5719"
215	216	188°47'17"	8°47'17"	115.34	83°00'39.3132"	19°31'48.6728"
216	217	116°59'46"	296°59'46"	23.61	83°00'38.6630"	19°31'44.9736"
217	218	48°10'47"	228°10'48"	60.71	83°00'39.3800"	19°31'44.6171"
218	219	180°44'38"	0°44'38"	91.69	83°00'40.9479"	19°31'45.9161"
219	220	90°34'44"	270°34'44"	39.29	83°00'40.8701"	19°31'42.9357"
220	221	165°30'36"	345°30'36"	36.48	83°00'42.2174"	19°31'42.9078"
221	222	180°20'02"	0°20'02"	204.00	83°00'42.5162"	19°31'41.7559"
222	223	90°24'29"	270°24'29"	111.53	83°00'42.3932"	19°31'35.1238"

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Revenue Inspector
Thuanui Rampur

Handwritten signature
Range Officer
Th. Rampur South Range

Handwritten signature
18/4/17
THUANUI RAMPUR

223	224	4°27'20"	184°27'22"	30.65	83°00'46.2172"	19°31'35.0554"
224	225	117°46'16"	297°46'16"	84.33	83°00'46.3112"	19°31'36.0481"
225	226	149°06'29"	329°06'29"	108.22	83°00'48.8540"	19°31'34.7421"
226	227	176°56'02"	356°56'02"	22.26	83°00'50.7220"	19°31'31.7013"
227	228	139°52'01"	319°52'01"	115.76	83°00'50.7538"	19°31'30.9783"
228	229	49°11'06"	229°11'06"	23.07	83°00'53.2768"	19°31'28.0722"
229	230	318°16'12"	138°16'12"	39.35	83°00'53.8817"	19°31'28.5559"
230	231	302°11'46"	122°11'46"	25.33	83°00'52.9953"	19°31'29.5208"
231	232	341°27'36"	161°27'36"	68.65	83°00'52.2658"	19°31'29.9677"
232	233	82°30'15"	262°30'14"	15.21	83°00'51.5435"	19°31'32.0923"
233	234	2°12'09"	182°12'11"	20.65	83°00'52.0615"	19°31'32.1510"
234	235	24°38'30"	204°38'31"	47.59	83°00'52.0970"	19°31'32.8217"
235	236	330°34'23"	150°34'23"	17.77	83°00'52.7950"	19°31'34.2206"
236	237	1°01'45"	181°01'44"	66.29	83°00'52.5018"	19°31'34.7272"
237	238	66°10'33"	246°10'34"	33.41	83°00'52.5693"	19°31'36.8817"
238	239	350°48'11"	170°48'11"	42.22	83°00'53.6227"	19°31'37.3088"
239	240	15°19'17"	195°19'19"	30.04	83°00'53.4082"	19°31'38.6662"
240	241	25°50'40"	205°50'38"	28.22	83°00'53.6920"	19°31'39.6052"
241	242	297°53'49"	117°53'49"	38.17	83°00'54.1242"	19°31'40.4263"
242	243	74°44'42"	254°44'42"	27.15	83°00'52.9746"	19°31'41.0199"
243	244	319°09'36"	139°09'36"	30.95	83°00'53.8757"	19°31'41.2422"
244	245	13°18'33"	193°18'32"	37.93	83°00'53.1910"	19°31'42.0112"
245	246	345°04'08"	165°04'08"	30.81	83°00'53.5053"	19°31'43.2079"
246	247	52°29'45"	232°29'46"	21.51	83°00'53.2451"	19°31'44.1788"
247	248	333°26'06"	153°26'06"	7.99	83°00'53.8356"	19°31'44.5981"
248	249	252°21'00"	72°21'00"	18.33	83°00'53.7160"	19°31'44.8317"
249	250	348°41'24"	168°41'24"	6.07	83°00'53.1150"	19°31'44.6577"
250	251	54°50'01"	234°50'02"	21.36	83°00'53.0765"	19°31'44.8517"
251	252	83°35'16"	263°35'17"	209.67	83°00'53.6803"	19°31'45.2451"
252	253	176°03'18"	356°03'18"	11.54	83°01'00.8350"	19°31'45.9267"
253	254	85°07'15"	265°07'16"	32.66	83°01'00.8576"	19°31'45.5522"
254	255	0°00'00"	180°00'00"	26.59	83°01'01.9748"	19°31'45.6301"
255	256	265°25'34"	85°25'34"	29.86	83°01'01.9855"	19°31'46.4946"
256	257	359°00'43"	179°00'43"	23.02	83°01'00.9638"	19°31'46.4286"
257	258	85°54'52"	265°54'50"	33.42	83°01'00.9595"	19°31'47.1772"
258	259	43°46'52"	223°46'52"	52.77	83°01'02.1037"	19°31'47.2418"
259	260	62°18'02"	242°18'04"	17.93	83°01'03.3712"	19°31'48.4666"
260	261	0°56'21"	180°56'20"	24.21	83°01'03.9190"	19°31'48.7315"
261	262	302°38'53"	122°38'53"	78.72	83°01'03.9423"	19°31'49.5185"
262	263	281°31'26"	101°31'26"	41.72	83°01'01.6866"	19°31'50.9246"
263	264	296°56'20"	116°56'20"	27.16	83°01'00.2881"	19°31'51.2112"
264	265	330°27'40"	150°27'40"	82.11	83°00'59.4629"	19°31'51.6205"
265	266	13°11'26"	193°11'28"	26.09	83°00'58.1035"	19°31'53.9587"
266	267	309°24'04"	129°24'04"	28.76	83°00'58.3179"	19°31'54.7822"
267	268	14°29'38"	194°29'38"	60.26	83°00'57.5631"	19°31'55.3843"
268	269	286°26'24"	106°26'24"	25.24	83°00'58.1038"	19°31'57.2754"
269	270	208°04'19"	28°04'19"	26.99	83°00'57.2765"	19°31'57.5169"
270	271	326°48'07"	146°48'07"	38.42	83°00'56.8313"	19°31'56.7476"
271	272	288°16'52"	108°16'52"	46.81	83°00'56.1229"	19°31'57.8008"
272	273	248°00'32"	68°00'32"	66.77	83°00'54.6045"	19°31'58.2953"

Small

by
Revenue Inspector
Thuamal Rampur

QO
Rabga Officer
Th. Rampur South Range

Kept on
18/11/17
TAHASILDAR
Thuamal Rampur

273	274	288°41'56"	108°41'56"	27.23	83°00'52.4712"	19°31'57.5060"
274	275	334°36'29"	154°36'29"	93.33	83°00'51.5901"	19°31'57.7998"
275	276	237°49'01"	57°49'01"	54.40	83°00'50.2229"	19°32'00.6155"
276	277	182°17'28"	2°17'28"	39.72	83°00'48.6324"	19°31'59.6911"
277	278	268°36'40"	88°36'40"	65.50	83°00'48.5620"	19°31'58.4014"
278	279	342°05'17"	162°05'17"	41.29	83°00'46.3157"	19°31'58.3748"
279	280	248°11'56"	68°11'56"	70.53	83°00'45.8960"	19°31'59.6571"
280	281	297°07'16"	117°07'16"	18.28	83°00'43.6397"	19°31'58.8305"
281	282	359°20'42"	179°20'42"	242.90	83°00'43.0850"	19°31'59.1077"
282	283	38°52'39"	218°52'41"	81.57	83°00'43.0876"	19°32'07.0059"
283	284	21°48'05"	201°48'04"	61.98	83°00'44.8689"	19°32'09.0509"
284	285	115°33'36"	295°33'36"	20.24	83°00'45.6815"	19°32'10.9132"
285	286	53°17'09"	233°17'10"	58.42	83°00'46.3041"	19°32'10.6223"
286	287	322°41'46"	142°41'46"	31.43	83°00'47.9243"	19°32'11.7400"
287	288	56°18'36"	236°18'36"	74.41	83°00'47.2810"	19°32'12.5602"
288	289	317°32'02"	137°32'02"	31.74	83°00'49.4209"	19°32'13.8785"
289	290	233°58'23"	53°58'23"	59.38	83°00'48.6954"	19°32'14.6481"
290	291	311°01'37"	131°01'37"	40.51	83°00'47.0344"	19°32'13.5309"
291	292	223°55'08"	43°55'08"	14.88	83°00'45.9971"	19°32'14.4071"
292	293	278°44'46"	98°44'46"	15.66	83°00'45.6389"	19°32'14.0627"
293	1	357°04'52"	177°04'52"	40.00	83°00'45.1091"	19°32'14.1460"
Perimeter: 17.535 km						

The following patches (Patch-2 to Patch-5) of non-forest land are excluded from the total non-forest Govt. land allotted for compensatory afforestation.

PATCH-2						
1	2	247°55'55"	67°55'56"	21.13	19° 31' 40.460" N	83° 1' 7.745" E
2	3	340°56'31"	160°56'31"	92.38	19° 31' 40.711" N	83° 1' 8.419" E
3	4	324°03'29"	144°03'29"	26.14	19° 31' 37.860" N	83° 1' 9.418" E
4	5	1°08'45"	181°08'46"	26.46	19° 31' 37.166" N	83° 1' 9.936" E
5	6	50°11'40"	230°11'38"	8.27	19° 31' 36.306" N	83° 1' 9.907" E
6	7	338°52'30"	158°52'30"	24.96	19° 31' 36.137" N	83° 1' 9.687" E
7	8	286°18'50"	106°18'50"	22.61	19° 31' 35.376" N	83° 1' 9.986" E
8	9	325°13'19"	145°13'19"	46.39	19° 31' 35.161" N	83° 1' 10.728" E
9	10	25°05'47"	205°05'46"	46.16	19° 31' 33.913" N	83° 1' 11.620" E
10	11	347°11'46"	167°11'46"	59.69	19° 31' 32.561" N	83° 1' 10.931" E
11	12	35°16'21"	215°16'19"	26.58	19° 31' 30.663" N	83° 1' 11.362" E
12	13	141°30'32"	321°30'32"	56.11	19° 31' 29.964" N	83° 1' 10.827" E
13	14	39°21'06"	219°21'07"	34.22	19° 31' 31.405" N	83° 1' 9.647" E
14	15	88°46'05"	268°46'05"	49.22	19° 31' 30.553" N	83° 1' 8.892" E
15	16	117°30'43"	297°30'43"	57.28	19° 31' 30.538" N	83° 1' 7.204" E
16	17	70°26'30"	250°26'31"	42.68	19° 31' 31.417" N	83° 1' 5.473" E
17	18	150°09'50"	330°09'50"	41.48	19° 31' 30.968" N	83° 1' 4.088" E
18	19	161°50'49"	341°50'49"	33.97	19° 31' 32.146" N	83° 1' 5.395" E
19	20	177°27'18"	357°27'18"	47.67	19° 31' 33.200" N	83° 1' 3.045" E
20	21	196°46'59"	16°46'57"	34.82	19° 31' 34.749" N	83° 1' 2.991" E
21	22	269°28'08"	89°28'10"	57.15	19° 31' 35.829" N	83° 1' 3.350" E

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Revenue Inspector
Thummal Rampur

[Signature]
Range Officer
Th. Rampur South Range

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Thummal Ran

22	23	183°28'05"	3°28'06"	34.99	19° 31' 35.824" N	83° 1' 5.310" E
23	24	248°52'30"	68°52'31"	24.96	19° 31' 36.959" N	83° 1' 5.396" E
24	25	190°55'23"	10°55'22"	30.72	19° 31' 37.243" N	83° 1' 6.198" E
25	26	286°34'44"	106°34'44"	72.33	19° 31' 38.221" N	83° 1' 6.410" E
26	1	160°51'36"	340°51'36"	95.22	19° 31' 37.523" N	83° 1' 8.779" E
PATCH-3						
1	2	227°29'24"	47°29'23"	12.92	19° 31' 47.645" N	83° 1' 4.880" E
2	3	310°24'54"	130°24'54"	119.37	19° 31' 47.925" N	83° 1' 5.210" E
3	4	64°00'56"	244°00'58"	52.54	19° 31' 45.374" N	83° 1' 8.296" E
4	5	88°10'54"	268°10'55"	25.02	19° 31' 44.644" N	83° 1' 6.667" E
5	6	133°01'30"	313°01'30"	40.72	19° 31' 44.627" N	83° 1' 5.809" E
6	7	216°26'38"	36°26'40"	32.07	19° 31' 45.542" N	83° 1' 4.800" E
7	1	155°49'16"	335°49'16"	42.63	19° 31' 46.374" N	83° 1' 5.463" E
PATCH-4						
1	2	228°33'22"	48°33'22"	33.18	19° 31' 45.207" N	83° 1' 9.746" E
2	3	209°08'02"	29°08'03"	18.48	19° 31' 45.912" N	83° 1' 10.607" E
3	4	242°06'11"	62°06'10"	25.45	19° 31' 46.433" N	83° 1' 10.922" E
4	5	282°50'53"	102°50'53"	15.47	19° 31' 46.811" N	83° 1' 11.698" E
5	6	315°00'00"	135°00'00"	13.10	19° 31' 46.694" N	83° 1' 12.214" E
6	7	287°39'00"	107°39'00"	6.11	19° 31' 46.389" N	83° 1' 12.528" E
7	8	341°20'31"	161°20'31"	21.50	19° 31' 46.327" N	83° 1' 12.727" E
8	9	272°14'46"	92°14'45"	13.50	19° 31' 45.662" N	83° 1' 12.955" E
9	10	315°16'55"	135°16'55"	37.98	19° 31' 45.639" N	83° 1' 13.417" E
10	11	60°01'06"	240°01'05"	15.88	19° 31' 44.752" N	83° 1' 14.323" E
11	12	83°17'25"	263°17'24"	18.12	19° 31' 44.499" N	83° 1' 13.848" E
12	13	135°00'00"	315°00'00"	8.23	19° 31' 44.437" N	83° 1' 13.230" E
13	14	64°21'32"	244°21'32"	7.34	19° 31' 44.628" N	83° 1' 13.033" E
14	15	348°09'29"	168°09'29"	16.76	19° 31' 44.528" N	83° 1' 12.804" E
15	16	335°13'30"	155°13'30"	41.67	19° 31' 43.993" N	83° 1' 12.916" E
16	17	313°37'12"	133°37'12"	62.13	19° 31' 42.756" N	83° 1' 13.499" E
17	18	316°28'08"	136°28'08"	21.90	19° 31' 41.345" N	83° 1' 15.024" E
18	19	287°28'30"	107°28'30"	29.96	19° 31' 40.823" N	83° 1' 15.535" E
19	20	343°26'02"	163°26'02"	43.62	19° 31' 40.520" N	83° 1' 16.511" E
20	21	39°33'35"	219°33'36"	39.47	19° 31' 39.156" N	83° 1' 16.921" E
21	22	13°20'55"	193°20'56"	32.09	19° 31' 38.176" N	83° 1' 16.047" E
22	23	37°00'23"	217°00'25"	44.40	19° 31' 37.164" N	83° 1' 15.780" E
23	24	131°40'44"	311°40'44"	54.91	19° 31' 36.022" N	83° 1' 14.849" E
24	25	184°34'26"	4°34'26"	39.81	19° 31' 37.224" N	83° 1' 13.458" E
25	26	164°34'05"	344°34'05"	52.70	19° 31' 38.514" N	83° 1' 13.583" E
26	27	62°39'00"	242°39'00"	8.64	19° 31' 40.171" N	83° 1' 13.122" E
27	28	158°13'16"	338°13'16"	124.80	19° 31' 40.045" N	83° 1' 12.858" E
28	29	255°39'04"	75°39'03"	23.49	19° 31' 43.830" N	83° 1' 11.317" E
29	30	321°50'35"	141°50'35"	4.71	19° 31' 44.011" N	83° 1' 12.099" E
30	31	259°09'36"	79°09'35"	12.66	19° 31' 43.889" N	83° 1' 12.198" E
31	32	141°08'49"	321°08'49"	24.46	19° 31' 43.962" N	83° 1' 12.625" E
32	33	86°50'57"	266°50'56"	28.88	19° 31' 44.587" N	83° 1' 12.106" E

Buy
Revenue Inspector
Thuvamal Ramapur

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Range Officer
Th. Ramapur South Range

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33	34	97°11'03"	277°11'02"	31.74	19° 31' 44.547" N	83° 1' 11.117" E
34	35	151°11'20"	331°11'20"	18.12	19° 31' 44.688" N	83° 1' 10.039" E
PATCH-5						
1	2	265°06'04"	85°06'03"	23.24	19° 31' 47.328" N	83° 1' 21.925" E
2	3	282°05'42"	102°05'42"	47.35	19° 31' 47.384" N	83° 1' 22.719" E
3	4	268°45'18"	88°45'17"	30.43	19° 31' 47.043" N	83° 1' 24.303" E
4	5	356°22'01"	176°22'01"	41.76	19° 31' 47.053" N	83° 1' 25.347" E
5	6	21°06'17"	201°06'18"	40.41	19° 31' 45.697" N	83° 1' 25.421" E
6	7	10°15'04"	190°15'04"	63.19	19° 31' 44.477" N	83° 1' 24.907" E
7	8	78°57'33"	258°57'32"	27.63	19° 31' 42.460" N	83° 1' 24.496" E
8	9	88°40'59"	268°40'59"	57.56	19° 31' 42.298" N	83° 1' 23.564" E
9	10	187°48'54"	7°48'55"	68.10	19° 31' 42.277" N	83° 1' 21.590" E
10	11	158°48'22"	338°48'22"	69.53	19° 31' 44.467" N	83° 1' 21.934" E
11	1	225°48'25"	45°48'25"	33.21	19° 31' 46.585" N	83° 1' 21.099" E

VILLAGE: KUMJOORE (Ref. Plate No. IX C)

Station		Distance in mtr	Backward Bearing	Forward Bearing	Co-ordinates	
From	To				Latitude	Longitude
1	2	158.282	300°49'12"	120°49'12"	19°32'31.56"	83°01'18.11"
2	3	700.642	354°38'13"	174°38'13"	19°32'29.04"	83°01'22.81"
3	4	46.25	106°37'16"	286°37'16"	19°32'06.36"	83°01'24.60"
4	5	73.612	94°07'19"	274°07'19"	19°32'06.72"	83°01'23.17"
5	6	49.428	74°28'34"	254°28'34"	19°32'07.08"	83°01'20.64"
6	7	31.929	50°02'31"	230°02'31"	19°32'06.36"	83°01'18.83"
7	8	41.17	43°41'53"	223°41'53"	19°32'06.00"	83°01'18.11"
8	9	33.152	61°23'20"	241°23'20"	19°32'04.92"	83°01'17.04"
9	10	84.773	73°41'10"	253°41'10"	19°32'04.56"	83°01'16.33"
10	11	61.13	35°45'14"	215°45'14"	19°32'03.48"	83°01'13.44"
11	12	96.566	60°27'00"	240°27'00"	19°32'02.04"	83°01'11.99"
12	13	58.87	115°59'20"	295°59'20"	19°32'00.60"	83°01'09.13"
13	14	27.907	174°33'36"	354°33'36"	19°32'01.32"	83°01'07.32"
14	15	58.903	155°27'00"	335°27'00"	19°32'02.40"	83°01'07.32"
15	16	91.733	141°08'49"	321°08'49"	19°32'04.20"	83°01'06.60"
16	17	73.383	146°01'23"	326°01'23"	19°32'06.36"	83°01'04.44"
17	18	38.824	134°18'36"	314°18'36"	19°32'08.52"	83°01'03.36"
18	19	118.807	126°10'05"	306°10'05"	19°32'09.24"	83°01'02.29"
19	20	86.669	121°15'50"	301°15'50"	19°32'11.76"	83°00'59.05"
20	21	41.44	118°36'40"	298°36'40"	19°32'13.20"	83°00'56.52"
21	22	122.6	107°15'43"	287°15'43"	19°32'13.92"	83°00'55.07"
22	23	51.36	97°24'00"	277°24'00"	19°32'15.00"	83°00'51.11"
23	24	55.096	85°10'44"	265°10'44"	19°32'15.36"	83°00'49.33"
24	25	64.437	95°18'04"	275°18'04"	19°32'15.00"	83°00'47.52"
25	26	62.311	127°14'06"	307°14'06"	19°32'15.36"	83°00'45.37"
26	27	67.586	130°14'10"	310°14'10"	19°32'16.44"	83°00'43.56"
27	28	34.224	131°04'55"	311°04'55"	19°32'17.88"	83°00'42.13"
28	29	98.264	68°16'12"	248°16'12"	19°32'18.60"	83°00'41.03"

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Revenue Inspector
Thumai Rumpur

Shree
Range Officer
Th. Rumpur South Range

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29	30	74.49	127°47'10"	307°47'10"	19°32'17.52"	83°00'37.79"
30	31	48.791	164°16'05"	344°16'05"	19°32'18.96"	83°00'36.01"
31	32	47.936	140°35'56"	320°35'56"	19°32'20.76"	83°00'35.65"
32	33	23.849	176°49'12"	356°49'12"	19°32'21.84"	83°00'34.55"
33	34	35.676	190°41'06"	10°41'06"	19°32'22.56"	83°00'34.55"
34	35	71.085	185°20'20"	5°20'21"	19°32'23.64"	83°00'34.55"
35	36	211.45	171°04'26"	351°04'26"	19°32'26.16"	83°00'34.91"
36	37	32.825	178°09'07"	358°09'07"	19°32'33.00"	83°00'33.84"
37	38	178.866	170°07'12"	350°07'12"	19°32'34.08"	83°00'33.84"
38	39	37.997	167°07'30"	347°07'30"	19°32'39.48"	83°00'32.77"
39	40	202.871	177°27'29"	357°27'29"	19°32'40.92"	83°00'32.77"
40	41	127.129	195°56'42"	15°56'43"	19°32'47.40"	83°00'32.41"
41	42	179.082	174°44'38"	354°44'38"	19°32'51.36"	83°00'33.48"
42	43	26.464	168°27'54"	348°27'54"	19°32'57.12"	83°00'33.12"
43	44	58.614	263°15'36"	83°15'36"	19°32'58.20"	83°00'33.12"
44	45	48.259	273°46'19"	93°46'19"	19°32'58.20"	83°00'34.91"
45	46	30.329	263°59'28"	83°59'28"	19°32'58.20"	83°00'36.72"
46	47	19.636	284°02'10"	104°02'10"	19°32'58.20"	83°00'37.79"
47	48	23.783	290°51'14"	110°51'14"	19°32'58.20"	83°00'38.15"
48	49	39.248	273°51'58"	93°51'58"	19°32'57.84"	83°00'39.25"
49	50	38.633	256°32'06"	76°32'05"	19°32'57.84"	83°00'40.32"
50	51	83.377	286°35'42"	106°35'42"	19°32'57.84"	83°00'41.75"
51	52	18.1	285°15'18"	105°15'18"	19°32'57.12"	83°00'44.28"
52	53	25.455	249°18'18"	69°18'16"	19°32'57.12"	83°00'44.99"
53	54	28.477	228°00'47"	48°00'46"	19°32'57.12"	83°00'45.73"
54	55	25.647	248°11'56"	68°11'55"	19°32'57.84"	83°00'46.44"
55	56	28.906	203°44'56"	23°44'58"	19°32'58.20"	83°00'47.52"
56	57	27.725	203°37'44"	23°37'46"	19°32'58.92"	83°00'47.87"
57	58	155.749	248°03'14"	68°03'14"	19°33'00.00"	83°00'48.23"
58	59	59.458	249°08'46"	69°08'44"	19°33'01.80"	83°00'53.28"
59	60	42.876	257°09'50"	77°09'52"	19°33'02.52"	83°00'55.07"
60	61	46.162	241°57'58"	61°57'58"	19°33'02.52"	83°00'56.52"
61	62	46.389	244°18'43"	64°18'43"	19°33'03.24"	83°00'57.95"
62	63	46.404	224°04'34"	44°04'34"	19°33'03.96"	83°00'59.41"
63	64	109.662	204°12'54"	24°12'54"	19°33'05.04"	83°01'00.48"
64	65	79.91	191°27'32"	11°27'32"	19°33'08.28"	83°01'02.29"
65	66	55.626	182°43'34"	2°43'35"	19°33'10.80"	83°01'02.65"
66	67	24.684	210°57'50"	30°57'50"	19°33'12.60"	83°01'02.65"
67	68	29.349	205°38'28"	25°38'28"	19°33'13.32"	83°01'03.36"
68	69	68.792	210°30'36"	30°30'37"	19°33'14.04"	83°01'03.72"
69	70	36.513	180°00'00"	0°00'00"	19°33'16.20"	83°01'04.79"
70	71	24.099	188°50'31"	8°50'30"	19°33'17.28"	83°01'04.79"
71	72	18.709	188°07'48"	8°07'48"	19°33'18.00"	83°01'05.15"
72	73	150.396	272°13'05"	92°13'05"	19°33'18.72"	83°01'05.15"
73	74	21.067	295°16'41"	115°16'41"	19°33'18.36"	83°01'10.20"
74	75	25.295	307°20'56"	127°20'56"	19°33'18.00"	83°01'10.92"

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Buy
Range Inspector
Thumai Rampur

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Range Officer
Th. Rampur South Range

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TAHASILI
Thumai Ri

75	76	33.063	320°11'38"	140°11'38"	19°33'17.64"	83°01'11.63"
76	77	37.196	320°11'38"	140°11'38"	19°33'16.92"	83°01'12.37"
77	78	49.107	307°07'01"	127°07'01"	19°33'15.84"	83°01'13.09"
78	79	34.817	294°13'41"	114°13'41"	19°33'14.76"	83°01'14.52"
79	80	81.679	294°54'18"	114°54'18"	19°33'14.40"	83°01'15.61"
80	81	35.181	291°09'40"	111°09'40"	19°33'13.32"	83°01'18.11"
81	82	55.391	288°57'14"	108°57'14"	19°33'12.96"	83°01'19.21"
82	83	36.822	277°25'52"	97°25'52"	19°33'12.24"	83°01'21.00"
83	84	57.27	273°42'29"	93°42'29"	19°33'11.88"	83°01'22.45"
84	85	85.844	288°19'23"	108°19'23"	19°33'11.88"	83°01'24.24"
85	86	16.817	257°16'34"	77°16'32"	19°33'10.80"	83°01'27.12"
86	87	264.999	245°35'06"	65°35'04"	19°33'11.16"	83°01'27.48"
87	88	180.347	256°56'31"	76°56'33"	19°33'14.40"	83°01'35.77"
88	89	228.167	244°26'42"	64°26'43"	19°33'15.84"	83°01'41.87"
89	90	52.983	272°51'43"	92°51'43"	19°33'19.08"	83°01'49.07"
90	91	75.966	314°09'11"	134°09'11"	19°33'18.72"	83°01'50.88"
91	92	41.397	327°31'44"	147°31'44"	19°33'16.92"	83°01'52.69"
92	93	69.394	319°01'12"	139°01'12"	19°33'15.84"	83°01'53.41"
93	94	72.434	319°26'38"	139°26'38"	19°33'14.40"	83°01'54.83"
94	95	19.884	334°47'56"	154°47'56"	19°33'12.24"	83°01'56.65"
95	96	31.653	321°47'20"	141°47'20"	19°33'11.88"	83°01'57.00"
96	97	106.375	322°16'30"	142°16'30"	19°33'11.16"	83°01'57.36"
97	98	63.022	310°54'50"	130°54'50"	19°33'08.28"	83°01'59.89"
98	99	30.678	284°50'42"	104°50'42"	19°33'06.84"	83°02'01.32"
99	100	71.188	302°51'47"	122°51'47"	19°33'06.48"	83°02'02.39"
100	101	98.597	293°24'04"	113°24'04"	19°33'05.40"	83°02'04.20"
101	102	68.786	287°27'32"	107°27'32"	19°33'03.96"	83°02'07.44"
102	103	52.063	296°33'54"	116°33'54"	19°33'03.24"	83°02'09.61"
103	104	50.416	295°29'20"	115°29'20"	19°33'02.52"	83°02'11.40"
104	105	36.62	37°22'01"	217°22'01"	19°33'01.80"	83°02'12.85"
105	106	23.959	46°47'24"	226°47'24"	19°33'01.08"	83°02'12.11"
106	107	33.309	16°01'23"	196°01'23"	19°33'00.36"	83°02'11.40"
107	108	573.654	88°36'47"	268°36'47"	19°32'59.28"	83°02'11.04"
108	109	23.189	356°43'44"	176°43'44"	19°32'59.28"	83°01'51.59"
109	110	58.092	97°51'11"	277°51'11"	19°32'58.20"	83°01'51.59"
110	111	40.614	83°27'14"	263°27'14"	19°32'58.56"	83°01'49.45"
111	112	144.636	175°32'28"	355°32'28"	19°32'58.56"	83°01'48.00"
112	113	39.294	216°05'53"	36°05'54"	19°33'03.24"	83°01'47.64"
113	114	40.371	214°59'31"	34°59'31"	19°33'04.32"	83°01'48.71"
114	115	39.798	105°25'19"	285°25'19"	19°33'05.40"	83°01'49.45"
115	116	69.532	55°51'22"	235°51'22"	19°33'05.76"	83°01'48.00"
116	117	43.606	22°17'10"	202°17'10"	19°33'04.32"	83°01'46.21"
117	118	40.039	352°24'18"	172°24'18"	19°33'03.24"	83°01'45.47"
118	119	64.284	49°35'24"	229°35'24"	19°33'01.80"	83°01'45.85"
119	120	30.167	127°52'30"	307°52'30"	19°33'00.36"	83°01'44.04"
120	121	37.307	37°04'23"	217°04'23"	19°33'01.08"	83°01'43.33"

Shree
and

Buy
Revenue Inspector
Thuamal Rampur

QO
Range Officer
Ta. Ralapur South Range

Kepdm
18/4/17
TAHASILDAR
Thuamal Rai

121	122	50.223	102°56'17"	282°56'17"	19°33'00.00"	83°01'42.61"
122	123	21.988	74°17'28"	254°17'28"	19°33'00.36"	83°01'40.80"
123	124	36.187	18°06'14"	198°06'14"	19°33'00.36"	83°01'40.09"
124	125	33.212	45°48'25"	225°48'25"	19°32'59.28"	83°01'39.73"
125	126	78.98	36°29'10"	216°29'10"	19°32'58.56"	83°01'38.63"
126	127	28.079	316°54'32"	136°54'32"	19°32'56.40"	83°01'37.20"
127	128	28.203	50°42'40"	230°42'40"	19°32'55.68"	83°01'37.92"
128	129	77.529	93°25'26"	273°25'26"	19°32'55.32"	83°01'37.20"
129	130	9.175	174°12'25"	354°12'25"	19°32'55.32"	83°01'34.32"
130	131	66.174	81°43'26"	261°43'26"	19°32'55.68"	83°01'34.32"
131	132	46.135	68°17'24"	248°17'24"	19°32'55.32"	83°01'32.15"
132	133	94.726	85°40'30"	265°40'30"	19°32'54.96"	83°01'30.72"
133	134	62.345	168°37'05"	348°37'05"	19°32'54.60"	83°01'27.48"
134	135	38.009	151°17'38"	331°17'38"	19°32'56.76"	83°01'27.12"
135	136	13.575	105°15'18"	285°15'18"	19°32'57.84"	83°01'26.41"
136	137	57.469	147°24'25"	327°24'25"	19°32'57.84"	83°01'26.05"
137	138	77.544	67°06'32"	247°06'32"	19°32'59.28"	83°01'24.95"
138	139	15.087	88°29'35"	268°29'35"	19°32'58.56"	83°01'22.45"
139	140	34.078	165°09'18"	345°09'18"	19°32'58.56"	83°01'22.07"
140	141	99.101	54°46'55"	234°46'55"	19°32'59.64"	83°01'21.71"
141	142	44.132	311°43'08"	131°43'08"	19°32'57.84"	83°01'18.83"
142	143	81.151	346°42'40"	166°42'40"	19°32'56.76"	83°01'19.93"
143	144	56.307	350°40'16"	170°40'16"	19°32'54.24"	83°01'20.64"
144	145	21.828	36°52'12"	216°52'12"	19°32'52.44"	83°01'21.00"
145	146	32.398	329°02'10"	149°02'10"	19°32'51.72"	83°01'20.28"
146	147	23.182	51°57'11"	231°57'11"	19°32'51.00"	83°01'21.00"
147	148	18.771	193°26'56"	13°26'55"	19°32'50.28"	83°01'20.28"
148	149	22.709	84°59'13"	264°59'13"	19°32'51.00"	83°01'20.64"
149	150	77.736	135°12'25"	315°12'25"	19°32'51.00"	83°01'19.57"
150	151	107.696	147°57'00"	327°57'00"	19°32'52.80"	83°01'17.76"
151	152	10.349	94°23'56"	274°23'56"	19°32'55.68"	83°01'15.97"
152	153	28.625	16°55'41"	196°55'41"	19°32'55.68"	83°01'15.61"
153	154	15.335	79°33'43"	259°33'43"	19°32'54.96"	83°01'15.23"
154	155	39.866	9°44'38"	189°44'38"	19°32'54.96"	83°01'14.87"
155	156	32.681	335°36'50"	155°36'50"	19°32'53.52"	83°01'14.52"
156	157	10.745	355°45'50"	175°45'50"	19°32'52.44"	83°01'14.87"
157	158	27.43	273°19'05"	93°19'05"	19°32'52.08"	83°01'14.87"
158	159	31.174	31°27'50"	211°27'50"	19°32'52.08"	83°01'15.97"
159	160	15.595	75°15'22"	255°15'22"	19°32'51.36"	83°01'15.23"
160	161	91.031	146°22'44"	326°22'44"	19°32'51.00"	83°01'14.87"
161	162	15.815	197°31'34"	17°31'32"	19°32'53.52"	83°01'13.09"
162	163	55.598	145°10'30"	325°10'30"	19°32'54.24"	83°01'13.44"
163	164	8.549	68°11'56"	248°11'56"	19°32'55.68"	83°01'12.37"
164	165	35.116	145°35'28"	325°35'28"	19°32'55.68"	83°01'11.99"
165	166	12.725	176°25'26"	356°25'26"	19°32'56.40"	83°01'11.27"
166	167	56.513	150°33'18"	330°33'18"	19°32'56.76"	83°01'11.27"

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Bay
 Revenue Inspector
 Thummal Rampur

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 Range Officer
 Th. Rampur South Range

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 18/4/12
 TAJASHI DAB
 Thummal Ramp

167	168	17.181	96°37'59"	276°37'59"	19°32'58.56"	83°01'10.20"
168	169	15.64	144°17'35"	324°17'35"	19°32'58.56"	83°01'09.85"
169	170	45.085	216°46'08"	36°46'08"	19°32'58.92"	83°01'09.49"
170	171	18.556	311°31'55"	131°31'55"	19°33'00.00"	83°01'10.56"
171	172	35.331	231°50'35"	51°50'34"	19°32'59.64"	83°01'10.92"
172	173	49.506	138°54'00"	318°54'00"	19°33'00.36"	83°01'11.99"
173	174	29.861	66°30'04"	246°30'04"	19°33'01.80"	83°01'10.56"
174	175	60.96	53°12'18"	233°12'18"	19°33'01.44"	83°01'09.85"
175	176	31.99	348°33'04"	168°33'04"	19°33'00.00"	83°01'08.03"
176	177	13.685	29°32'20"	209°32'20"	19°32'59.28"	83°01'08.39"
177	178	26.759	324°39'36"	144°39'36"	19°32'58.92"	83°01'08.03"
178	179	8.874	243°26'06"	63°26'06"	19°32'57.84"	83°01'08.75"
179	180	57.252	315°33'43"	135°33'43"	19°32'58.20"	83°01'08.75"
180	181	77.514	356°46'16"	176°46'16"	19°32'56.76"	83°01'10.20"
181	182	75.419	329°39'25"	149°39'25"	19°32'54.24"	83°01'10.20"
182	183	23.019	43°36'11"	223°36'11"	19°32'52.08"	83°01'11.63"
183	184	16.688	92°43'34"	272°43'34"	19°32'51.72"	83°01'10.92"
184	185	16.315	355°48'54"	175°48'54"	19°32'51.72"	83°01'10.56"
185	186	10.048	80°54'36"	260°54'36"	19°32'51.00"	83°01'10.56"
186	187	23.826	29°58'55"	209°58'55"	19°32'51.00"	83°01'10.20"
187	188	36.148	160°46'08"	340°46'08"	19°32'50.28"	83°01'09.85"
188	189	10.723	218°59'28"	38°59'28"	19°32'51.36"	83°01'09.49"
189	190	29.17	194°58'55"	14°58'54"	19°32'51.72"	83°01'09.49"
190	191	34.053	126°28'08"	306°28'08"	19°32'52.80"	83°01'09.85"
191	192	36.229	42°46'48"	222°46'48"	19°32'53.52"	83°01'08.75"
192	193	59.928	0°00'00"	180°00'00"	19°32'52.44"	83°01'08.03"
193	194	54.832	67°53'28"	247°53'28"	19°32'50.64"	83°01'08.03"
194	195	32.478	122°31'30"	302°31'30"	19°32'49.92"	83°01'06.25"
195	196	47.23	89°31'05"	269°31'05"	19°32'50.64"	83°01'05.53"
196	197	76.26	353°43'34"	173°43'34"	19°32'50.64"	83°01'03.72"
197	198	38.306	275°56'49"	95°56'49"	19°32'48.12"	83°01'04.08"
198	199	19.447	0°00'00"	180°00'00"	19°32'47.76"	83°01'05.15"
199	200	86.661	331°33'25"	151°33'25"	19°32'47.40"	83°01'05.15"
200	201	70.989	49°59'20"	229°59'20"	19°32'44.88"	83°01'06.60"
201	202	24.6	169°46'41"	349°46'41"	19°32'43.44"	83°01'04.79"
202	203	31.861	140°33'36"	320°33'36"	19°32'44.16"	83°01'04.79"
203	204	29.428	100°05'53"	280°05'53"	19°32'44.88"	83°01'04.08"
204	205	25.282	132°27'18"	312°27'18"	19°32'45.24"	83°01'03.01"
205	206	34.361	173°22'01"	353°22'01"	19°32'45.60"	83°01'02.29"
206	207	60.483	138°59'28"	318°59'28"	19°32'46.68"	83°01'02.29"
207	208	40.861	172°11'06"	352°11'06"	19°32'48.12"	83°01'00.84"
208	209	22.733	163°46'48"	343°46'48"	19°32'49.56"	83°01'00.84"
209	210	59.518	114°00'04"	294°00'04"	19°32'50.28"	83°01'00.48"
210	211	32.488	64°41'13"	244°41'13"	19°32'51.00"	83°00'58.67"
211	212	73.268	126°11'13"	306°11'13"	19°32'50.64"	83°00'57.60"
212	213	32.127	27°11'53"	207°11'53"	19°32'52.08"	83°00'55.81"

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Range Inspector
Th. Rampur

Handwritten signature
Range Officer
Th. Rampur South Range
TAHASILDA
Th. Rampur

259	260	43.678	289°05'38"	109°05'38"	19°32'19.32"	83°00'56.17"
260	261	62.01	328°20'42"	148°20'42"	19°32'18.96"	83°00'57.60"
261	262	134.341	281°14'35"	101°14'35"	19°32'17.16"	83°00'58.67"
262	263	22.719	340°36'58"	160°36'58"	19°32'16.08"	83°01'03.36"
263	264	75.968	296°01'48"	116°01'48"	19°32'15.36"	83°01'03.72"
264	265	17.579	241°41'56"	61°41'57"	19°32'14.28"	83°01'05.89"
265	266	7.665	291°15'00"	111°15'00"	19°32'14.64"	83°01'06.60"
266	267	9.434	345°22'44"	165°22'44"	19°32'14.64"	83°01'06.60"
267	268	7.987	63°26'06"	243°26'06"	19°32'14.28"	83°01'06.60"
268	269	30.029	352°24'18"	172°24'18"	19°32'14.28"	83°01'06.60"
269	270	22.015	62°02'56"	242°02'56"	19°32'13.20"	83°01'06.60"
270	271	36.428	352°29'17"	172°29'17"	19°32'12.84"	83°01'05.89"
271	272	130.497	314°37'48"	134°37'48"	19°32'11.76"	83°01'06.25"
272	273	21.358	221°59'13"	41°59'14"	19°32'08.52"	83°01'09.13"
273	274	53.438	278°58'23"	98°58'23"	19°32'09.24"	83°01'09.85"
274	275	43.201	349°24'47"	169°24'47"	19°32'08.88"	83°01'11.63"
275	276	60.898	290°12'22"	110°12'22"	19°32'07.44"	83°01'11.99"
276	277	86.301	236°49'19"	56°49'17"	19°32'06.72"	83°01'13.80"
277	278	23.842	267°08'17"	87°08'15"	19°32'08.16"	83°01'16.33"
278	279	33.547	190°54'40"	10°54'40"	19°32'08.52"	83°01'17.04"
279	280	190.171	121°10'08"	301°10'08"	19°32'09.60"	83°01'17.40"
280	281	26.885	31°06'32"	211°06'32"	19°32'12.84"	83°01'11.63"
281	282	129.122	133°45'18"	313°45'18"	19°32'12.12"	83°01'11.27"
282	283	17.57	161°33'54"	341°33'54"	19°32'15.00"	83°01'08.03"
283	284	27.866	116°12'00"	296°12'00"	19°32'15.36"	83°01'08.03"
284	285	33.818	94°02'17"	274°02'17"	19°32'15.72"	83°01'06.96"
285	286	68.425	150°27'40"	330°27'40"	19°32'16.08"	83°01'05.89"
286	287	119.217	171°23'02"	351°23'02"	19°32'17.88"	83°01'04.79"
287	288	51.693	255°19'26"	75°19'25"	19°32'21.84"	83°01'04.44"
288	289	70.715	177°25'37"	357°25'37"	19°32'22.20"	83°01'05.89"
289	290	22.111	111°02'17"	291°02'17"	19°32'24.36"	83°01'05.89"
290	291	57.107	210°29'10"	30°29'09"	19°32'24.72"	83°01'05.15"
291	292	104.306	250°40'08"	70°40'08"	19°32'26.16"	83°01'06.25"
292	293	27.611	161°33'54"	341°33'54"	19°32'27.24"	83°01'09.49"
293	294	109.688	259°47'17"	79°47'16"	19°32'28.32"	83°01'09.13"
294	295	8.713	300°04'08"	120°04'08"	19°32'28.68"	83°01'13.09"
295	296	95.6	240°40'05"	60°40'06"	19°32'28.68"	83°01'13.44"
296	297	21.336	313°29'35"	133°29'35"	19°32'30.12"	83°01'16.33"
297	298	49.928	216°35'49"	36°35'48"	19°32'29.76"	83°01'16.68"
298	299	4.795	155°33'22"	335°33'22"	19°32'30.84"	83°01'17.76"
299	1	21.592	216°01'37"	36°01'39"	19°32'31.20"	83°01'17.76"
Perimeter: 16523.684 mtr or 16.52 km						
Grand Total Perimeter: 54.449 km						

Buy
Revenue Inspector
Tumamul Rampur

QD
Revenue Inspector
Badachhatrang

Kepdsh
18/4/17
TANABUDAR
Tumamul Rampur

QD
18/4/17
Sikar

SILET

PATCH-1

POINTS		GEOGRAPHIC CO-ORDINATES		FORWARD BEARING			BACKWARD BEARING			DISTANCE IN METER
FRO	TO	LONGITUDE	LATITUDE	DEG	MIN	SEC	DEG	MIN	SEC	
1	2	83°12'24.27"	19°32'18.36"	118	36	16	298	36	16	58.087
2	3	83°12'26.00"	19°32'17.43"	113	43	30	293	43	30	113.436
3	4	83°12'29.54"	19°32'15.90"	128	52	4	308	52	4	56.92
4	5	83°12'31.05"	19°32'14.72"	118	41	10	298	41	10	39.962
5	6	83°12'32.24"	19°32'14.09"	129	57	27	309	57	27	31.929
6	7	83°12'33.07"	19°32'13.41"	152	16	53	332	16	53	44.085
7	8	83°12'33.76"	19°32'12.13"	125	5	45	305	5	45	29.912
8	9	83°12'34.59"	19°32'11.56"	236	18	36	56	18	36	38.159
9	10	83°12'33.49"	19°32'10.89"	142	14	13	322	14	13	59.406
10	11	83°12'34.72"	19°32'09.34"	64	54	59	244	54	59	68.652
11	12	83°12'36.86"	19°32'10.26"	91	19	56	271	19	56	56.901
12	13	83°12'38.81"	19°32'10.20"	109	47	56	289	47	56	35.151
13	14	83°12'39.94"	19°32'09.80"	113	25	43	293	25	43	43.254
14	15	83°12'41.29"	19°32'09.22"	109	26	24	289	26	24	35.774
15	16	83°12'42.45"	19°32'08.82"	96	34	55	276	34	55	17.312
16	17	83°12'43.04"	19°32'08.75"	84	31	21	264	31	21	48.508
17	18	83°12'44.69"	19°32'08.88"	88	21	48	268	21	48	92.642
18	19	83°12'47.87"	19°32'08.93"	160	49	16	340	49	16	32.215
19	20	83°12'48.22"	19°32'07.93"	151	19	37	331	19	37	48.25
20	21	83°12'48.99"	19°32'06.55"	159	53	15	339	53	15	50.014
21	22	83°12'49.56"	19°32'05.01"	173	20	0	353	20	0	51.279
22	23	83°12'49.74"	19°32'03.35"	188	31	51	8	31	51	40.192
23	24	83°12'49.52"	19°32'02.07"	180	0	0	360	0	0	66.146
24	25	83°12'49.49"	19°31'59.92"	161	1	47	341	1	47	44.765
25	26	83°12'49.97"	19°31'58.53"	167	11	45	347	11	45	14.923
26	27	83°12'50.08"	19°31'58.06"	270	9	43	90	9	43	234.158
27	28	83°12'42.05"	19°31'58.18"	195	37	27	15	37	27	81.047
28	29	83°12'41.27"	19°31'55.65"	100	59	33	280	59	33	187.323
29	30	83°12'47.56"	19°31'54.41"	61	30	51	241	30	51	97.081
30	31	83°12'50.50"	19°31'55.88"	168	4	45	348	4	45	60.096
31	32	83°12'50.90"	19°31'53.96"	200	8	29	20	8	29	24.211
32	33	83°12'50.61"	19°31'53.23"	173	45	6	353	45	6	45.581
33	34	83°12'50.76"	19°31'51.75"	148	3	9	328	3	9	69.378
34	35	83°12'51.99"	19°31'49.83"	97	22	7	277	22	7	57.078
35	36	83°12'53.93"	19°31'49.56"	149	7	23	329	7	23	17.089
36	37	83°12'54.22"	19°31'49.08"	108	55	29	288	55	29	24.474
37	38	83°12'55.01"	19°31'48.82"	87	30	38	267	30	38	30.456
38	39	83°12'56.06"	19°31'48.85"	94	26	28	274	26	28	68.336
39	40	83°12'58.39"	19°31'48.64"	142	16	8	322	16	8	184.833
40	41	83°13'02.20"	19°31'43.84"	110	37	45	290	37	45	119.164
41	42	83°13'06.01"	19°31'42.43"	75	32	36	255	32	36	174.871
42	43	83°13'11.84"	19°31'43.78"	22	57	15	202	57	15	122.118
43	44	83°13'13.52"	19°31'47.42"	54	2	22	234	2	22	122.027
44	45	83°13'16.94"	19°31'49.70"	179	57	18	359	57	18	485.049

[Signature]
Revenue Inspector
Nakrundi

Revenue Inspector
Nakrundi

[Signature]
Range Officer
Th. Rampur North Range

831

[Signature]
THASILDAR
Thuamal Rampur

45	46	83°13'16.73"	19°31'33.94"	269	33	9	89	33	9	63.095
46	47	83°13'14.57"	19°31'33.95"	178	36	36	358	36	36	241.739
47	48	83°13'14.66"	19°31'26.09"	279	44	13	99	44	13	174.703
48	49	83°13'08.77"	19°31'27.12"	349	4	21	169	4	21	141.202
49	50	83°13'07.92"	19°31'31.64"	16	24	29	196	24	29	114.74
50	51	83°13'09.08"	19°31'35.20"	353	37	15	173	37	15	171.454
51	52	83°13'08.50"	19°31'40.75"	269	22	5	89	22	5	287.885
52	53	83°12'58.63"	19°31'40.77"	0	0	0	180	0	0	74.083
53	54	83°12'58.66"	19°31'43.18"	289	4	11	109	4	11	146.588
54	55	83°12'53.93"	19°31'44.79"	179	45	11	359	45	11	153.46
55	56	83°12'53.89"	19°31'39.80"	270	32	44	90	32	44	208.369
56	57	83°12'46.74"	19°31'39.96"	354	57	27	174	57	27	22.577
57	58	83°12'46.68"	19°31'40.69"	335	5	43	155	5	43	40.839
58	59	83°12'46.11"	19°31'41.90"	327	35	16	147	35	16	49.362
59	60	83°12'45.22"	19°31'43.26"	309	56	11	129	56	11	37.095
60	61	83°12'44.26"	19°31'44.05"	308	25	52	128	25	52	155.368
61	62	83°12'40.13"	19°31'47.24"	311	56	1	131	56	1	90.374
62	63	83°12'37.85"	19°31'49.23"	245	29	32	65	29	32	166.32
63	64	83°12'32.63"	19°31'47.05"	335	36	23	155	36	23	183.974
64	65	83°12'30.10"	19°31'52.53"	358	16	7	178	16	7	47.247
65	66	83°12'30.07"	19°31'54.07"	354	20	55	174	20	55	306.289
66	67	83°12'29.17"	19°32'03.99"	269	39	4	89	39	4	52.124
67	68	83°12'27.38"	19°32'04.00"	0	0	0	180	0	0	25.929
68	69	83°12'27.39"	19°32'04.84"	91	10	6	271	10	6	168.681
69	70	83°12'33.18"	19°32'04.66"	359	3	37	179	3	37	225.879
70	71	83°12'33.15"	19°32'12.01"	270	58	36	90	58	36	46.574
71	72	83°12'31.55"	19°32'12.05"	180	38	37	360	38	37	47.099
72	73	83°12'31.51"	19°32'10.52"	269	38	47	89	38	47	128.59
73	74	83°12'27.10"	19°32'10.55"	358	56	21	178	56	21	28.58
74	75	83°12'27.10"	19°32'11.48"	271	8	4	91	8	4	26.728
75	76	83°12'26.18"	19°32'11.51"	359	14	51	179	14	51	52.888
76	77	83°12'26.18"	19°32'13.22"	296	33	54	116	33	54	51.028
77	1	83°12'24.63"	19°32'13.99"	354	47	34	174	47	34	134.833

PERIMETER-7287.88 mtr & 63.936 ha.

PATCH-2

POINTS		GEOGRAPHIC CO-ORDINATE		FORWARD BEARING			BACKWARD BEARING			DISTANCE
FROM	TO	LONGITUDE	LATITUDE	DEG	MIN	SEC	DEG	MIN	SEC	IN METERS
1	2	83°12'46.56"	19°31'24.10"	0	46	34	180	46	34	313.743
2	3	83°12'57.32"	19°31'24.10"	270	57	53	90	57	53	306.279
3	4	83°12'57.36"	19°31'14.15"	0	32	25	180	32	25	229.703
4	5	83°13'05.24"	19°31'14.12"	274	16	18	94	16	18	238.932
5	6	83°13'05.74"	19°31'06.37"	165	33	4	345	33	4	57.171
6	7	83°13'03.85"	19°31'06.85"	144	46	23	324	46	23	606.04
7	8	83°12'47.03"	19°31'18.43"	57	49	5	237	49	5	92.846
8	1	83°12'48.76"	19°31'20.96"	124	21	10	304	21	10	115.88

PERIMETER-1960.663 mtr & 12.298 ha.

PATCH-3

POINTS		GEOGRAPHIC CO-ORDINATE		FORWARD BEARING			BACKWARD BEARING			DISTANCE
FROM	TO	LONGITUDE	LATITUDE	DEG	MIN	SEC	DEG	MIN	SEC	IN METERS

[Signature]
Revenue Inspector
Nakrundi

[Signature]
Range Officer
332 Rampur North Range

[Signature]
18/9/17
TAHASILDAR
Thumal Rampur

1	2	83°14'15.65"	19°31'24.09"	319	37	11	139	37	11	44.913
2	3	83°14'16.81"	19°31'23.13"	291	42	4	111	42	4	112.34
3	4	83°14'18.19"	19°31'19.72"	265	8	56	85	8	56	35.511
4	5	83°14'18.07"	19°31'18.57"	136	35	24	316	35	24	87.811
5	6	83°14'15.91"	19°31'20.56"	183	34	35	3	34	35	76.349
6	7	83°14'13.30"	19°31'20.43"	269	38	47	89	38	47	118.732
7	8	83°14'13.22"	19°31'16.57"	1	6	36	181	6	36	136.037
8	9	83°14'17.88"	19°31'16.60"	245	13	26	65	13	26	118.356
9	10	83°14'16.14"	19°31'13.13"	315	13	19	135	13	19	61.309
10	11	83°14'17.61"	19°31'11.71"	60	22	23	240	22	23	25.68
11	12	83°14'18.05"	19°31'12.43"	319	19	46	139	19	46	79.056
12	13	83°14'20.09"	19°31'10.73"	266	31	27	86	31	27	13.759
13	14	83°14'20.05"	19°31'10.28"	255	39	46	75	39	46	70.252
14	15	83°14'19.42"	19°31'08.08"	145	24	17	325	24	17	389.203
15	16	83°14'08.54"	19°31'15.40"	227	37	48	47	37	48	258.571
16	17	83°14'02.48"	19°31'09.26"	240	36	35	60	36	35	170.029
17	18	83°13'59.55"	19°31'04.48"	90	40	16	270	40	16	346.793
18	19	83°13'59.57"	19°31'15.75"	358	42	16	178	42	16	159.48
19	20	83°14'05.03"	19°31'15.57"	59	5	18	239	5	18	124.897
20	21	83°14'07.28"	19°31'19.03"	180	54	6	360	54	6	116.857
21	22	83°14'03.27"	19°31'19.01"	93	11	6	273	11	6	91.028
22	23	83°14'03.14"	19°31'21.97"	1	31	17	181	31	17	114.923
23	24	83°14'07.08"	19°31'22.02"	319	34	25	139	34	25	95.128
24	1	83°14'09.54"	19°31'19.99"	36	0	43	216	0	43	218.523
PERIMETER- 3065.586 mtr & 13.082 ha.										

Signature
Sd/-

Signature
Range Officer
North Range

Signature
Revenue Inspector
Nakrundi

Signature
18/9/17
TAHASILDAR
Thuamal Rampur

This is to certify that the selected site is bound
suitable for ball hill block plantation.

Signature
Divisional Forest Officer
Katahandi South Division

COST NORM FOR BALD HILL PLANTATION @ 1600 PLANTS PER HECTARE						
Labour cost @ Rs 200.00 per manday						
Sl No	Item of work	Preferable period of execution	Manday	Labour cost @ Rs 200/- per day	Material cost per hectare in Rs	Total cost per hectare in Rs.
Preparatory operation (0th Year)						
1.	Survey and demarcation	June	2	400	0	400
2.	Pitting (1600 pits per ha.) - each pit 45cm ³	Nov-Dec	128	25600	0	25600
3.	Soil and water conservation measures					
	(a) Staggered trench along the contour @ 300 per ha (2.5mx0.5mx0.5m), digging of percolation pits @ 600 per ha in lieu of staggered trenches, gully plugging and Drainage line treatment, half moon trench on the uphill side of each planting pit (100 MD for staggered trench/percolation pits and 30 MD for gully plugging, drainage line treatment and half moon trench)	Sept-Nov	130	26000	0	26000
	(b) Site clearance-8 MD. Aligment and staking of contour lines on ground, planting pits, contour trenches/ percolation pits and check dam sites etc.-2 MD	July-Aug	10	2000	0	2000
4	Raising of seedlings in poly bags (minimum 60 cm high) @ Rs 9.45 per seedling (Rs 6.67 in 0 th year) Part (1760 saplings to be raised for one hectare from January-March @ Rs 11739/-)	October-March	44	8800	2939	11739
Total 0th year			314	62800	2939	65739
Planting Operation (1st Year)						
1	Cost of sapling (balance) from April-June/July @ Rs 2.78 per seedling for 1760 seedlings = Rs.4893/-	April-July	21.5	4300	593	4893
2	Freshening of pits-64 MD, filling with fertile soil and farm yard manure (FYM)-24 MD, application of insecticide and planting of 60 cm tall saplings including carriage of plants-21MD	June-July	109	21800	0	21800
3	Cost of fertile soil 0.25 cft @ Rs 6 per cft/ FYM 0.25 cft @ Rs 15 per cft per pit		0	0	9200	9200
4	Sowing of seeds on dug out earth of trench	June	6	1200	200	1400
5	Carriage-6 MD. Planting including casualty replacement-6 MD, fertilizer application-5 MD, 1 st weeding-7 MD, 2 nd weeding-5 MD, soil working-7 MD.	July-August	36	7200	0	7200
6	Cost of fertilizer and insecticide (Granular insecticide @ 5gms/plant @Rs 80/- per kg = Rs 640.00, NPK 100 gms/plant in two doses @ Rs 24 per kg = Rs 3840.00		0	0	4480	4480
7	Maintenance of Soil and Moisture Conservation measures (20% of cost)	October-December	26	5200	0	5200
8	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-March	30	6000	0	6000
9	Fire tracing and control, display board construction, painting/writing, other miscellaneous cost	Jan-Feb	10	2000	360	2360
Total (1st year)			238.5	47700	14833	62533

Maintenance Operation (2 nd Year)						
1	Casualty replacement-6 MD including seedling cost @ Rs 9.45 per seedling and its transportation	June-July	10	2000	1512	3512
2	Soil working-7 MD, 1 st weeding-6 MD, 2 nd weeding-6 MD and fertilizer application-4 MD	August-October	23	4600	0	4600
3	Cost of fertilizer @ 50 gms NPK per plant @ Rs 24/- per kg for 1600 plants = Rs 1920.00. Insecticide @ 5 gm per plant for 160 nos of plants @ Rs 80 per kg = Rs 64.00		0	0	1984	1984
4	Maintenance of Soil and Moisture Conservation measures (20% of cost)	August-October	26	5200	0	5200
5	Fire tracing and control, and other miscellaneous cost	Feb-March	10	2000	0	2000
6	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-March	30	6000	0	6000
Total 2 nd Year			99	19800	3496	23296
Maintenance Operation (3 rd Year)						
1.	S.M.C measures (Renovation)--	April-March	26	5200	0	5200
2	Repair of barbed wire fence	April-March	40	8000	1000	9000
2	Maintenance of plantation	Apr-Mar	14	2800	0	2800
3	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-March	30	6000	0	6000
Total 3 rd Year			110	22000	1000	23000
Maintenance Operation (4 th Year)						
1	S.M.C measures- 21MD, and maintenance of plantation - 14 MD	April-March	35	7000	0	7000
2	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-March	18	3600	0	3600
Total 4 th Year			53	10600	0	10600
Maintenance Operation (5 th Year)						
1	S.M.C measures- 21MD, and maintenance of plantation - 14 MD	April-March	35	7000	0	7000
2	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-March	18	3600	0	3600
Total 5 th Year			53	10600	0	10600
Maintenance Operation (6 th Year)						
1	S.M.C measures- 21MD, and maintenance of plantation - 14 MD	April-March	35	7000	0	7000
2	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-March	18	3600	0	3600
Total 6 th Year			53	10600	0	10600
Maintenance Operation (7 th Year)						
1	S.M.C measures- 21MD, and maintenance of plantation - 14 MD	April-March	35	7000	0	7000
2	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-March	18	3600	0	3600
Total 7 th Year			53	10600	0	10600
Maintenance Operation (8 th Year)						
1	S.M.C measures- 21MD, and maintenance of plantation - 14 MD	April-March	35	7000	0	7000
2	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-March	18	3600	0	3600
Total 8 th Year			53	10600	0	10600

Maintenance Operation (9 th Year)						
1	S.M.C measures- 21MD, and maintenance of plantation – 14 MD	April-March	35	7000	0	7000
2	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-March	18	3600	0	3600
Total 9 th Year			53	10600	0	10600
Maintenance Operation (10 th Year)						
1	S.M.C measures- 21MD, and maintenance of plantation – 14 MD	April-March	42	7000	0	7000
2	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-March	18	3600	0	3600
Total 10 th Year			60	10600	0	10600

ABSTRACT

Sl	Year	Mandays	Labour cost (Rs.)	Material cost (Rs.)	Total (Rs.)
1	0 th year	314	62800	2939	65739
2	1 st year	238.5	47700	14833	62533
3	2 nd year	99	19800	3496	23296
4	3 rd year	110	22000	1000	23000
5	4 th year	53	10600	0	10600
6	5 th year	53	10600	0	10600
7	6 th year	53	10600	0	10600
8	7 th year	53	10600	0	10600
9	8 th year	53	10600	0	10600
10	9 th year	53	10600	0	10600
11	10 th year	60	10600	0	10600
Total		1139.5	226500	22268	248768

Cost for 958.443 Ha plantation = Rs 248768 X 958.443 ha = Rs. 238429948.224

Annexure-(F)

COST NORM FOR GAP PLANTING IN DEGRADED FOREST AREAS @ 600 PLANTS PER Ha.

Sl	Item of work	Preferable period of execution	Person days	Labour (Rs)	Material (Rs)	Total (Rs)
0th Year						
1	Survey, Demarcation and Pillar Posting, GPS Reading with mapping	Nov/Dec	2	400	0	400
2	Site Preparation	Nov/Dec	2	400	0	400
3	Silvicultural Operation including clearance of weed, climber cutting, high stump cutting, singling of shoots etc.	Jan/Feb	5	1000	0	1000
4	Nursery cost (6 months old seedling) @ Rs.9.45 per seedling (Rs.6.67 in 0 th year + Rs.2.78 in 1 st year) for 660 seedlings (600+60)	Jan-March	16.5	3300	1102	4402
5	Contingency and Unforeseen Expenditures		0	0	198	198
	Sub Total		25.5	5100	1300	6400
1st year operation						
6	Nursery cost (6months old seedling) balance @ Rs.2.78 for 660 seedlings	Apr-Jul	8	1600	235	1835
7	Pitting 30 cm cube size	Feb/Mar	18	3600	0	3600
8	Carriage and planting including casualty replacement	Jul/Aug	15	3000	0	3000
9	Complete weeding, Soil working, Manuring	Aug/Sep	18	3600	0	3600
10	Cost of vermi-compost @ 200 gms/plant @ Rs.20/- per kg = Rs.2400.00 and Granular Insecticide 5 gms/plant @ Rs.80/- per kg = Rs. 240.00	Aug/Sep	0	0	2640	2640
11	Cost of Chemical fertiliser (a) Urea 70 gms/plant in two subsequent doses @ Rs.6/- per kg = Rs.252.00 (b) NPK 50 gms/plant @ Rs 24/- per kg = Rs 720.00 as basal dose		0	0	972	972
12	Fireline Tracing and Inspection Path	Feb/Mar	3	600	0	600
13	Silvicultural operation involving clearance of weeds, cutting of climbers, singling of shoots etc.	Sep/Oct	15	3000	0	3000
14	Soil Conservation Measures (Slaggered trenches of dimension 2 m x 0.5m x 0.5m @ 60 nos per ha) or its equivalent	Sep/Oct	20	4000	0	4000
15	Watch & ward	Aug-Mar	7	1400	0	1400
16	Contingency and unforeseen expenditure		0	0	353	353
	Sub Total		104	20800	4200	25000
2nd year operation						
1	Casualty replacement including cost of seedling, carriage and planting	Jul/Aug	3	600	567	1167
2	Complete weeding and cultural operations	Sep/Oct	6	1200	0	1200
3	Soil working & manuring	Sep/Oct	6	1200	0	1200
4	Cost of fertiliser and insecticides (a) Vermi-compost 200 gms/plant @ Rs.20/- per kg = Rs.2400.00 (b) Granular Insecticides 5 gms/plant for 20 plants 100 gms @ Rs 80/- per kg = Rs 24.00	Sep/Oct	0	0	2424	2424
5	Fireline Tracing and Inspection Path	Feb/Mar	1	200	0	200
6	Soil Conservation Measures (Renovation of staggered trenches etc)	Sep/Oct	8	1600	0	1600
7	Watch & ward (whole year)	Apr-Mar	7	1400	0	1400
8	Contingency and unforeseen expenditure		0	0	193	193
	Sub Total		31	6200	3184	9384

3 rd year operation						
1	Complete weeding and cultural operations	Aug/Sep	3	600	0	600
2	Soil working	Aug/Sep	3	600	0	600
3	Fireline Tracing and Inspection Path	Feb/Mar	1	200	0	200
4	Watch & ward (whole year)	Apr-Mar	7	1400	0	1400
	Sub Total		14	2800	0	2800
4 th year operation						
1	Fireline Tracing and Inspection Path	Feb/Mar	1	200	0	200
2	Watch & ward and cultural operations	Apr-Mar	2	400	0	400
	Sub Total		3	600	0	600
5 th year operation						
1	Fireline Tracing and Inspection Path	Feb/Mar	1	200	0	200
2	Watch & ward and cultural operations	Apr-Mar	2	400	0	400
	Sub Total		3	600	0	600
6 th year operation						
1	Fireline Tracing and Inspection Path	Feb/Mar	1	200	0	200
2	Watch & ward and cultural operations	Apr-Mar	2	400	0	400
	Sub Total		3	600	0	600
7 th year operation						
1	Fireline Tracing and Inspection Path	Feb/Mar	1	200	0	200
2	Watch & ward and cultural operations	Apr-Mar	2	400	0	400
	Sub Total		3	600	0	600
8 th year operation						
1	Fireline Tracing and Inspection Path	Feb/Mar	1	200	0	200
2	Watch & ward and cultural operations	Apr-Mar	2	400	0	400
	Sub Total		3	600	0	600
9 th year operation						
1	Fireline Tracing and Inspection Path	Feb/Mar	1	200	0	200
2	Watch & ward and cultural operations	Apr-Mar	2	400	0	400
	Sub Total		3	600	0	600
10 th year operation						
1	Fireline Tracing and Inspection Path	Feb/Mar	1	200	0	200
2	Watch & ward and cultural operations	Apr-Mar	2	400	0	400
	Sub Total		3	600	0	600

ABSTRACT					
Sl. No	Item of Work	Person days	Labour (Rs.)	Material (Rs)	Total (Rs)
1	0 th year operation	25.5	5100	1300	6400
2	1 st year operation	104	20800	4200	25000
3	2 nd year operation	31	6200	3184	9384
4	3 rd year operation	14	2800	0	2800
5	4 th year operation	3	600	0	600
6	5 th year operation	3	600	0	600
7	6 th year operation	3	600	0	600
8	7 th year operation	3	600	0	600
9	8 th year operation	3	600	0	600
10	9 th year operation	3	600	0	600
11	10 th year operation	3	600	0	600
	TOTAL	195.5	39100	8684	47784

ESTIMATE FOR BARBED WIRE FENCE

7 strands (5 straight + 2 cross strands) of 2 ply barbed wire on RCC posts fixed at 2.5 mtr intervals.			
Two fencing posts extra, used as struts at each corner point			
Number of fence posts required per kilometer 500 nos.			
Fence post size 2 mtr long; 10cm x 10cm top; 15cm x 15cm bottom			
Minimum wage rate Rs. 200/- per day for unskilled labourer			

Lead Statement & cost of materials

Sl. No	Item	Unit	Basic price	Lead in Km	Transport charge	Royalty	Total price
1	4cm hand broken granite metal	Cum	609.00	15	248.40	98.79	956.19
2	12mm H.G hand broken chips	Cum	934.00	15	248.40	98.79	1281.19
3	Screened & washed sand	Cum	59.00	25	340.40	27.44	426.84
4	M.S rod	Ant.	4000.00	90	76.80	0.00	4076.80
5	Cement	Qntl.	651.00	90	76.80	0.00	727.80
6	Barbed wire	Kg	66.00	90	0.76	0.00	66.76

Analysis of rate

Sl. No.	Item	Qty.	Unit	Rate	Amount
1	Cement concrete (1:4:8) with 4 cm H.G metal				
a	Materials	0.96	Cum	956.19	917.94
	Hand broken granite stone 4 cm size	0.48	Cum	426.84	204.88
	Sand (Screened & washed)	1.72	Qntl.	727.80	1251.82
	Cement				2374.64
b	Labour	0.18	Each	240.00	43.20
	Mason second class	1.80	Each	200.00	360.00
	Man mulia	1.40	Each	200.00	280.00
	Women mulia	0.70	Each	200.00	140.00
	Man mulia for mixing stone, sand and cement and granite water				823.20
c	Overhead charges 7.5% of (a+b)				239.84
	Total cost per cum				3437.68
2	C.C (1:2:4) in 12 mm hand broken H.G chips including hoisting and laying per cum.				
a	Materials	0.96	Cum	1281.19	1229.94
	Hand broken granite stone 12 cm size	0.45	Cum	426.84	192.08
	Sand (Screened & washed)	3.23	Qntl.	727.80	2350.79
	Cement				3772.81
b	Labour	0.68	Each	240.00	163.20
	Mason second class	1.80	Each	200.00	360.00
	Man mulia	1.40	Each	200.00	280.00
	Women mulia	1.40	Each	200.00	280.00
	Man mulia for mixing stone, sand and cement and granite water	0.50	Each	220.00	110.00
	Mason second class				1193.20
c	Overhead charges 7.5% of (a+b)				372.45
	Total cost per cum				5338.47

3	Labour for M.S reinforcement for R.C.C work including cutting, bending and tying the grills and placing in position, including cost of binding wire (per 1 Qnfl.)	1.00	Each	260.00	260.00
	Blacksmith (Special)	1.00	Each	220.00	220.00
	Semiskilled mulla				144.00
	30% sundries, binding wires and T&P etc.				624.00
	Total charges per quintal				

Estimated cost per fence post of 2 mtr long, 15 cm x 15cm bottom and 10 cm x 10 cm top in RCC (1:2:4) with 12mm H.G chips					
	Cost for concrete 2.0 mtr x 0.01625 sq. mtr =	0.0325	Cum	5338.47	173.50
	Cost of 8 mm rod (4 x 2 mtr) + 6mm rod 0.6 mtr for rings =	3.25	Kg	40.77	132.50
	Labour for cutting, bending, binding & laying in position of rods	3.15	Kg	6.24	19.65
	including cost of binding wire				20.00
	Cost of staples for holding barbed wire				345.65

Estimated cost for fixing each fence post with C.C (1:4:8) cm metal					
1	Cost of concrete (45cm x 45 cm) + 45cm) - (15cm x 15cm x 15cm)	0.081	Cum	3437.68	278.45

Estimated per Kilometre of Barbed wire Fencing					
Sl No	Work	Qty.	Unit	Rate	Amount
1	Cost of fence post RCC (1:2:4) with 12mm H.G chips 2 mtr long 15cm x 15cm bottom and 10cm x 10cm top	500.00	Each	345.65	172825.00
2	Digging of pits for fixing of fence posts	500.00	Each	20.00	10000.00
3	Fixing of fence post with C.C (1:4:8) with 4 cm H.G metal	500.00	Each	278.45	139225.00
4	Cost of 2 ply barbed wire 7 strands x 1000 mtr = 7000 mtr @ 8 mtr per kg	875.00	Kg	66.76	58415.00
5	Labour for fixing barbed wire fencing and post by means of staples and straining hooks	7000	Mtr	2.00	14000.00
6	Average expenditure needs for extra lead for transporting RCC fence posts in hill slopes manually 0.5 man-day per pillar	500.00	Each	100.00	50000.00
	Total expenditure for 1 km of barbed wire fence				444465.00

Estimate for Loose Boulder Check Dam of length 2 mtr

Particulars of work	No./Quantity	Rate	Amount
Earth work in hard or gravelly soil within 50m. Initial lead and 1.5m. Initial lift including rough dressing of clods to maximum 5 cm. to 7 cm and laying in layers not exceeding 0.3 m. in depth (per 100 cum.)	43	200.00	8600.00
Mulia			172.00
2% sundries and T & P etc.	Total		8772.00
Rough stone dry packing in aprons and revetments with hard granite stones (15 to 30 cm size) per cum	1	507.96	507.96
(Granite broken stone 1 cum.	0.17	260.00	44.20
Mason (Special)	0.35	220.00	77.00
Stone packer	1.04	200.00	208.00
Mulia			16.74
2% sundries, T & P etc.	Total		853.90

Estimate for construction of Loose Boulder Check Dam

Length of Loose Boulder Check Dam 2 Mtr

Foundation and apron 25 cm thick.

Top width 60 cm

Height of check dam above the foundation is 90 cm.

Uphill side width 90 cm.

Downhill side width should be 180 cm.

Uphill side apron 30 cm and downhill side apron 90 cm.

Particulars of work	Volume	Rate in Rupees	Total amount in Rupees
Earth work in hard or gravelly soil within 50m. Initial lead and 1.5m. Initial lift including rough dressing of clods to maximum 5 cm. to 7 cm and laying in layers not exceeding 0.3 m. in depth	L.S	100.00	100.00
Dressing the side of banks and foundation on L.S			
Rough stone dry packing in aprons and revetments with hard granite stones (15 to 30 cm size) per cum			
Rough stone dry packing in aprons and revetments with hard granite stones (15 to 30 cm size) per cum			
Foundation 4.5 mtr wide x 2 mtr long x 0.25 mtr deep = 2.25 cu.mtr			
Super structure (3.3m + 0.6 m)/2 x 0.9m x 2 mtr = 3.51 cu.mtr			
Volume = 2.25 cu.mtr + 3.51 cu. mtr = 5.76 cu.m		853.90	
Volume of stone work for a 2 mtr long loose boulder check dam is 5.76 cu.m.	5.6 cu.m	per cu.mtr	4781.84
Total			4881.84

Cost per running metre of L.B.C.D of 90 cm height is 2440.90 or say Rs.2450/-

ANNEXURE-(I)

TOTAL COST OF THE COMPENSATORY AFFORESTATION SCHEME

Item of Work	Total Estimated cost in Rs.
Barbed wire fence around plantation site Rs 458465.00/- X 67.462 km	30928965.83
Bald hill Block plantation over 958.443 ha. X Rs 248768/-	238429948.224
Gap plantation 600 plants per hectare over 20.933 ha. MDF area X Rs.47784.00	1000262.00
Loose Boulder Check Dams over 600 Running Metres @ Rs.2450/- per	1470000.00
Vegetative palisade in gullies 200 Running Metres @ Rs 1000/- per Running Metre	200000.00
Continuous contour trench	2,57,08,641.00
Site Clearance	39,17,600.00
Total	27,59,46,777.00

Rupees Twenty-seven crore fifty nine lakh forty six thousand seven hundred seventy-seven only)


 Divisional Forest Officer,
 Kailash South Division.

Annexure- (J)

Site specific Compensatory Afforestation over 979.3768 Ha. of non-forest Govt. land has been identified in village Uparjhabl, Pokhariguda, Kumjore & Silet in TH. Rampur (S & N) Range against the forest diversion of Dubuna-Sakradihl Iron & Managanese ore Mining Lease of OMC Ltd. located in the district of Keonjhar, Odisha. As the site is having more slope which may prone to soil erosion, steps has been taken by enhancing Mandays, SMC work, Continuous contour trenching etc in the plantation area of the field. The selected site is having more than 30° to 40° slope and located in remote areas of TH. Rampur Tahasil in Kalahandi District.

- (1) Continuous contour trench (CCT) for soil and moisture conservation has been decided to 100 Mt per Ha. Survey and demarcation for the SMC measure should be 2 MD per Ha.

The detail estimate is furnished after field inquiry.

Description of Items	No	L-mt.	B-mt.	H-mt.	Quantity	Unit	Rate	Amount
Total area					979.3768	Hec.		
C/S area of the trench		(1m+2m)/2			1.5	Sqm		
Volume of trench /R-mt.					1.5	Cum		
Volume earthen trench for	100	m		hectre				
Total length of the trench:	97938	mtr.						
Work excavation for trench in all kinds of soil								
earthen trench	1	97938		1.5	146906.52	Cum	175.00	25708641.00
							Total :	25708641.00
							or Say:	2,57,08,641.00

Analysis of Rates

Description	UNIT	QUANTITY	RATE	AMOUNT
1 Earth work in Ordinary soil				
Labour :-Mulia(Both):-	Each	32	200.00	6400.00
			Over Head Charges 7.5%	480.00
			Contractors Profit 7.5%	480.00
				7360.00
				1472.00
Add 20 % towards levelling and dressing the undulation ground				8832.00
				88.32
			Add Labour cess @ 1% :	0.88
			Total:	89.20

(A)

M. S. Singh
5/5/12
J.E (est)
OMC Ltd.

Earth work in Hard soil

Labour :- Mulla(Both):-	Each	43	200.00	8600.00	
			Over Head Charges 7.5%	645.00	
			Contractors Profit 7.5%	645.00	
				<u>9890.00</u>	--
					(A)

Add 20 % towards levelling and dressing the undulation ground				1978.00	
				<u>11868.00</u>	
				118.68	
			Add Labour cess @ 1% :	1.19	
			Total:	<u>119.87</u>	

Earth work in stoney earth and gravel mixed with stone & boulder

Labour :- Mulla(Both):-	Each	67.06	200.00	13412.00	
			Over Head Charges 7.5%	1005.90	
			Contractors Profit 7.5%	1005.90	
				<u>15423.80</u>	--
					(A)

Add 20 % towards levelling and dressing the undulation ground				3084.76	
				<u>18508.56</u>	
				185.09	
			Add Labour cess @ 1% :	1.85	
			Total:	<u>186.94</u>	

Cutting in disintegrated rock not requiring blasting

Labour :- Mulla(Both):-	Each	109	200.00	21800.00	
			Over Head Charges 7.5%	1635.00	
			Contractors Profit 7.5%	1635.00	
				<u>25070.00</u>	--
					(A)

Add 20 % towards levelling and dressing the undulation ground				5014.00	
				<u>30084.00</u>	
			Add Labour cess @ 1% :	300.84	
			Total:	<u>30384.84</u>	

Earth work in all kinds of soil(Avg. of Item 1, 2, 3 & 4 Type soil)

Labour :- Mulla(Both):-	Each	62.765	200.00	12553.00	
			Over Head Charges 7.5%	941.48	
			Contractors Profit 7.5%	941.48	
				<u>14435.95</u>	--
					(A)

Add 20 % towards levelling and dressing the undulation ground				2887.19	
				<u>17323.14</u>	
				173.23	
			Add Labour cess @ 1% :	1.73	
			Total:	<u>174.96</u>	
				<u>175.00</u>	

MB
8/5/12
 JE (Civil), OMC Ltd.

Annexure - K

(1) Site clearance is to done by engaging extra Man-days from 8 MD to 20 MD/Ha.

=20X979.3768

=19587.53 MD

Or say

=19588 MD @ Rs 200.00/day= Rs 39,17,600.00

(Rupees thirty nine Lakhs seventeen thousand & six hundred only)

M. P. Singh
5/5/12

JE (Civil), OMC Ltd.