

41

**SITE SPECIFIC SCHEME FOR COMPENASTORY
AFFORESTATION OF 1.82 HECTS. IN MOUZA
BIDYADHARPUR UNDER
BHUBANESWAR TAHASIL OF KHORDHA DISTRICT
FOR DIVERSION OF REVENUE FOREST LAND BY IDCO
FOR**

**CONSTRUCTION OF APPROACH ROAD TO
GOTHAPATNA INDUSTRIAL ESTATE
OF MOUZA GOTHAPATNA.**

**BHUBANESWAR RANGE
CITY FOREST DIVISION
BHUBANESWAR CIRCLE**

42

TABLE OF CONTENTS

CHAPTER	PARTICULARS	PAGE NUMBER
I	BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL	1
II	DETAILS OF NON-FOREST LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION	2 to 3
III	DELINEATION OF PROPOSED AREA ON SUITABLE MAP	4
IV	AGENCY RESPONSIBLE FOR PLACEMENT OF FUNDS	5
V	PLANTATION MODELS	6 to 7
VI	REQUIREMENT OF FUNDS	8
VII	ANNEXURES	9 to 24


Forest Range Officer
Bhubaneswar Range
Bhubaneswar

CHAPTER -I.

Brief Note on the proposed Forest Diversion Proposal.

Due to increasing demand for establishment of small industries in and around of Bhubaneswar City IDCO has decided to create a Land Bank at Village Gothapatna to provide land to the proponent desirous for setting up of Industries.

In this connection, the Chief General Manager (Env.), Odisha Industrial Infrastructure Development Corporation, IDCO Towers, Janapath, Bhubaneswar has applied for diversion of 4.5 Acres. (1.82 hec.) of Revenue Forest land in Mouza, Gothapatna under Bhubaneswar Tahasil of Khordha District. As per the provisions of Forest Conservation Act, 1980, the User Agency has requested to the Tahasildar, Bhubaneswar for allocation of Government Non-Forest Land for the purpose of Compensatory Afforestation in lieu of diversion of above 1.82 hec. of Revenue Forest land. Accordingly, the Tahasildar, Bhubaneswar has allotted 11.748 Acres. (4.754 hec.) of Non-Forest Land with Kissam Parbat in Mouza Bidyadharpur of Bhubaneswar Tahasil of Khordha District vide his letter No. 10675 dated 28.10.2022. (Copy enclosed in **Annexure-A**). Out of which, 4.5 Acres. (1.82 hec.) of the Non Forest Land has been selected for Compensatory Afforestation. This identified Non-Forest Land belongs to the Bhubaneswar Range of City Forest Division, Bhubaneswar. This CA land is found suitable for Compensatory Afforestation, the certificate of which is enclosed in **Annexure -B** .

In the CA land over 1.82 hec where 1820 number of 18th month old saplings in form of Block Plantation @ 1000 plants / hectare will be taken up. The cost estimate for this plantation has been calculated as per the one time cost norm provided by the Principal Chief Conservator of Forest, Odisha, Bhubaneswar vide O.O. No. 1109 dated 08.11.2021. and communicated by the Addl. Principal Chief Conservator of Forest, Forest Diversion & NO, FC Act. vide Memo No. 18833 dated 08.11.2021. The site specific cost estimate has been prepared providing chain link wire mesh fencing system with iron angle to prevent biotic interference and adequate SMC measures for improving the moisture retention capacity of the soil. The CA has been proposed to be taken up during the year 2023-24.


Forest Range Officer
Bhubaneswar Range
Bhubaneswar


Divisional Forest Officer
City Forest Division, Bhubaneswar

CHAPTER-II

A: Details of Non-forest land identified for Compensatory Afforestation.

1. Land identification and Joint Verification of the identified site:

An area of 11.748 Acres.(4.748 hec.)of Non-Forest Land has been identified in Khata No.137,Plot No.4 & 5 in Mouza Bidyadharpur of Bhubaneswar Tahasil of Khordha District. The CA land belongs to the jurisdiction of Bhubaneswar Range under City Forest Division, Bhubaneswar. This area is jointly verified by the Tahsildar Bhubaneswar and Range Officer , Bhubaneswar.

Out of this, the details of CA land is furnished below.

Mouza	Khata No.	Plot No.	Total Area	Area selected for CA	Kissam
Bidyadharpur	137	4	Ac.5.893	Ac.3.370	Parbat
		5	Ac.5.855	Ac.1.130	
		Total	Ac.11.748	Ac.4.500 or 1.82 hectare	

2. Information on Non-encroachment and non-encumbrance:

This CA land (4.5 Acres or 1.82 hectare) is free from encroachment and encumbrances.(Copy enclosed in Annexure-C).

3. Information of Land status: As above.

4. Suitability of identified site for compensatory afforestation:

The CA land is suitable for afforestation/plantation (as in Annexure B).

The location map in Topo sheet No.F45T11 along with Map of DGPS Survey of the CA land is enclosed in Annexures -D and Annexure-E respectively.

1. Description of the area

The identified CA Land is located in Survey of India Topo sheet No.F45T11.The nearest forest area i.e. Mendhsal Reserve Forest is about 400 meter away from this land. The area is open and devoid of tree vegetation and infested with weeds and thorny bushes. The nearby villages of the CA Land are Madhupur, Kaimatia, and Gothapatna approached easily in all seasons.

Forest Range Officer
Bhubaneswar Range
Bhubaneswar

Divisional Forest Officer
City Forest Division, Bhubaneswar

45

2. Soil

The land is having morum soil with underlying laterite rocks. The soil depth varies from 0.5 Meter to 1.0 Meter and well drained which can sustain a healthy vegetation. The soil is eroded and necessitates suitable SMC measures.

3. Topography:

The area is mainly plain and some patches bears gentle slope.

4. Climate :

The area experiences a tropical climate. The average rainfall is 1500mm. The summer season observed from March to June. The south west monsoon begins between second week of June and ends with Last week of September. The rain fall is evenly distributed across the area and receives most rainfall during the month of July and August which is gradually decreases towards the end of the September. The maximum temperature varies from 38 Degree Celsius to 39 Degree Celsius and minimum temperature from 13 Degree Celsius to 16 Degree Celsius.

5. Vegetation:

The area is an open land having a few trees of Mango, Bada Chakunda etc. Most of the area is infested with weeds like lantana and Eupatorium & thorny bushes.

6. Threat to Plantation.

Since the land is located adjoining the village areas, the grazing is one of the major threat to the plantation. The GI chain link fencing along with watch and ward will be provided to check the biotic interference. The presence of weeds and thorny bushes needs removal during the site clearance and plantation maintenance.


Forest Range Officer
Bhubaneswar Range
Bhubaneswar


Divisional Forest Officer
City Forest Division, Bhubaneswar

CHAPTER-III

1. DELINEATION OF PROPOSED AREA ON SUITABLE MAP


The area has been demarcated with DGPS Survey and 15 nos. of four feet RCC Pillars have been posted at each stations point .The DGPS Map alongwith GPS Co-ordinates of each points has been provided in the DGPS surveyed map. This area has been depicted in the village sheet (**Annexure-F**) No. 1 of Mouza Bidyadharpur and also shown in Topo sheet No. F45T11.

2. DSS ANALYSIS AND NON-FOREST GOVT.LAND

DSS analysis has been done to the identified non—forest CA land allotted in village Bidyadharpur under Bhubaneswar Tahasil of Khordha District. The detailed DSS report is furnished below:-

Name of Division	Plot No.	Khata No.	Area as per ROR in ha.	DSS Analysis Report	
				Area	Kissam
City Forest Division	4	137(AAA)	1.364 hecets.	1.00 Ha.	Non-Forest
	5	137(AAA)	0.457 hecets.	1.00 Ha	Non-forest


Forest Range Officer
Bhubaneswar Range
Bhubaneswar


Divisional Forest Officer
City Forest Division, Bhubaneswar

CHAPTER- IV

1. Agency responsible for placement of Funds.

The User Agency shall provide estimated funds for CA over 1.82 hectare involving 1820 nos. of 18th months of old saplings as per approved scheme.

2. Executive Agency for CA Plantation

The Divisional Forest Officer, City Forest Division, Bhubaneswar is assigned with the task for executing the CA Plantation with 10 years maintenance.


Forest Range Officer
Bhubaneswar Range
Bhubaneswar


Divisional Forest Officer
City Forest Division, Bhubaneswar

1) Plantation Models

The CA Plantation over 1.82 hectare is proposed to be taken up in Block model @ 1000 plants per hectare with 10 year maintenance. The spacing adopted for the plantation is 2.5m x 2.5m. The plantation patch will be protected by chain link fencing against biotic interference. The Soil Moisture Conservation (SMC) in form of staggered trenches, percolation pits and circular trenches will be provided for checking soil erosion and development of soil moisture. 1820 no.s of 18th month old saplings of indigenous varieties will be sourced from the permanent Nurseries at Ghatikia and MPKC, Patrapada @ Rs.50.31 per saplings which will be planted over the area. The estimated cost of the plantation has been prepared as per one-time cost norm approved by Pr. Chief Conservator of Forests, Odisha Bhubaneswar.

2) Choice of species.

Sl.No	Scientific Name	Species
1.	Syzgium cumini	Jamun
2.	Aegele marmelos	Bel
3.	Mangifera indica	Mango
4.	Azadiracta indica	Neem
5.	Dalbergia sissoo	Sisoo
6.	Terminalia belerica	Bahada
7.	Pongamia pinnata	Karanja
8.	Bamboosa bamboos	Bamboo
9.	Artocarpus heterophyllus	Panasa
10.	Ficus bengalensis	Bara

3) Pre-Planting Operation

a) Survey, Demarcation and Pillar Posting with GPS reading.

The CA area has been demarcated with DGPS Survey and 15 nos. of four feet height RCC Pillars have been posted at each stations point. The DGPS Map in 1:3,960 scale alongwith GPS Co-ordinates of each points has been provided in **Annexure-E**. A durable sign board has been erected in a conspicuous location with name of the site, scheme area etc.

b) Raising of Nursery

The good quality 18th month old saplings of indigenous species as mentioned above over 2002 nos. including causality replacement will be procured from Permanent Nurseries of the City Forest Division, i.e. Ghatikia and MPKC Patrapada.

[Signature]
Forest Range Officer
Bhubaneswar Range
Bhubaneswar

[Signature]
Divisional Forest Officer
City Forest Division, Bhubaneswar

c) Site Preparation, Pitting

The invasive weeds and thorny bushes will be removed from the plantation site preferably during the month February and March. The pits of size 45cm x 45cm x 45cm will be excavated maintaining spacing 2.5m x 2.5 m over 1820 nos @ 1000 pit per hectare over the CA Land of 1.82 hec. The existing mango and other trees species will be retained in the area.

d) Planting Operation including casualty replacement

The planting of seedling will be taken up during the month of July. The 18th month old saplings from the above mentioned nurseries are to be transported carefully well before plantation. The plantation will be taken up by carefully removing the Polythene cover so that the ball of earth will be remained intact. The saplings will be planted in the pits applying basal dose of fertilisers as mentioned in the cost norm. The soil around the plants will be well compacted.

The casualty pits will be replaced immediately by saplings to remain the plant population i.e. 1820 nos intact.

4) Post Planting Operation

a) Casualty replacement

The casualty replacement in the plantation site will be done as soon as the plantation operation is over during the month of July and August.

b) Weeding and Soil working

Regular weeding and Proper soil working will be started in the month of August and September as specifies in the cost norm.

c) Manuring and application of insecticides

The Bio fertilizer and insecticides will be applied to the plants for proper growth of saplings at the time of weeding and soil working during the month of August and September as per the scheduled doses provided in the cost norm.

d) Soil Moisture Conservation measures.

The Soil Moisture Conservation structures like staggered trenches of size 2.0m x 0.5m x 0.5m, percolation pits of size 1m x 1m x 1m will be provided as per the slope of the site.

The cost norm is furnished

e) Protection against Biotic interference and Fire and Watering.

The site will be protected against biotic interference by GI Chain link mesh fencing on the perimeter of the plantation site. The Watch and ward will also be provided for maintenance and care of the plants including watering. The fire line tracing will be ensured to protect the plantation from fire before the unset of fire season as per the approved cost norm.

[Signature]
Forest Range Officer
Bhubaneswar Range
Bhubaneswar

[Signature]
Divisional Forest Officer
City Forest Division, Bhubaneswar

REQUIREMENT OF FUNDS

For implementation of all prescription outlined above, Rs. Rs.12,55,221.00 will be required as detailed below.

Sl. No.	Particulars of works	Amount in Rs.
1.	Block plantations with 1000 plants per hectare over an area of 1.82 hects @ Rs. 2,34,718.00/ Hectare.	Rs.4,27,187.00
2.	G.I. Chain Link Mesh fencing @ 250 Rmt per hectare Rs.4,19,331.00/- Hectare	Rs.7,63,182.00
3.	Soil moisture Conservation measures like staggered trenches, Percolation pit, circular trench etc.@ 35,633.00/- Hectare	Rs. 64,852.00
Total Plantation Cost in Rs.		Rs.12,55,221.00

Rupees (Twelve lakh Fifty five thousand two hundred twenty one) only.


Asst. Conservator of Forests
City Forest Division,
Bhubaneswar


Divisional Forest Officer
City Forest Officer, Bhubaneswar


Forest Range Officer
Bhubaneswar Range
Bhubaneswar

SCHEME FOR COMPENSATORY AFFORESTATION OVER - 4.5 ACRE. IN MOUZA- BIDYADHARPUR UNDER BHUBANESWAR RANGE OF CITY FOREST DIVISION, BHUBANESWAR @ 1000 PLANTS PER HECTARE					
Sl No	Item of work	No. of Mandays	Labour Cost	Material Cost	Total Cost
0th Year (Advance Work)					
1	Survey, Demarcation and pillar posting	2	622	0	622
2	Preparation of Treatment Map (Digital Map)	1	311	100	411
3	Site preparation (Cleaning and removal of debris)	12	3732	0	3732
4	Creation of 4.00mt wide Inspection path	1	311	0	311
5	Alignment and stacking of pits	1	311	0	311
6	Digging of pits (15cmx45cmx45cm) / 50cm diameter augur hole in hard & gravelly soil	40	12440	0	12440
7	Construction of Temporary Labour Shed, Drinking water facility and first Aid etc.	0	0	3500	3500
	Total:-	57	17727	3600	21327
1st Year/ Planting Year					
1	Refilling of pits by altering the dugout soil of the pits, application of organic compounds/ CDM/FYM & mixing the same properly.	7.5	2332.5	5000	7332.5
2	Transportation of 18 months old polypot seedlings in hired truck/ tractor from the Permanent/ Mega nursery to planting site including loading & unloading. (Average lead of 10 Rkm) & Stacking the seedlings @ Rs. 6/- per seedlings (1100 nos.)	0	0	6600	6600
3	Watering polypot seedlings at planting site	2	622	0	622
4	Conveyance of polypot seedlings on head load from the stacking site to individual dugout pits within the planting site, applying insecticide, fertilizers & planting after scooping the soil with other applied materials & pressing the soil properly around the planted seedlings	22.5	6997.5	0	6997.5
5	Cost of Fertilizer & Insecticide	0	0	3000	3000
(a)	NPK/ Bio-fertilizer @ 50 gms/ plant as basal dose= 50 kg @ Rs. 30/- per kg = Rs. 1500.00				
(b)	Urea/ Vermicompost/ mo khata/ any other fertilizer in two subsequent doses @ Rs.750.00				
(c)	Insecticide/ Bio- pesticide @ 5 gms/ plant =5kg @ Rs. 150/- per kg = Rs. 750.00				
6	Casualty Replacement @ 10% (100 nos.)	2.5	777.5	0	777.5
7	1st Weeding, & Manuring	12	3732	0	3732
8	2nd weeding, soil working (1 mt. diameter around the plants) & Manuring	15	4665	0	4665
9	Fire line tacing (2m. Wide fire line over 400 m. long) including maintenance of inspection path	3	933	0	933
10	Watch & Ward including watering as per requirement	12	3732	0	3732
	Total:-	76.5	23791.5	14600	38391.5

[Signature]
Forest Range Officer
Bhubaneswar Range
Bhubaneswar

[Signature]
Divisional Forest Officer
City Forest Division, Bhubaneswar

2nd year Maintenance					
1	Transportation of 100 seedlings from Nursery to plantation, site including loading, unloading & conveyance by Tractor @ Rs. 6/- per seedlings	0	0	600	600
2	Casuality replacement- 10%	2.5	777.5	0	777.5
3	Cost of Fertilizer & Insecticide- (a) Cost of Insecticide/ Bio- pesticide @ 5gms/ plant= 0.5 kg@ Rs. 150/-per Kg = Rs.75/- (b) Urea/ NPK/ Bio- fertilizer/ Vermicompost/ Mo Khata/ any other fertilizer @ Rs. 2800/-		0	2875	2875
4	Complete Weeding ,Manuring & Soil working, (1 mt. diameter around the plants)	15	4665	0	4665
5	Fire line tacing (2m. Wide fire line over 400 m. long) including maintenance of inspection path	3	933	0	933
6	Watch & Ward including watering as per requirement	18	5598	0	5598
7	Maintenance of Temporary labour Shed, Drinking Water facility and First Aid etc.	0	0	1000	1000
Total:-		38.5	11973.5	4475	16448.5
3rd Year Maintenance					
1	Cost of fertilizer (Ura/ NPK/ Bio- Fertilizer/ Vermicompost/ Mo Khata/ any other Fertilizer)	0	0	2800	2800
3	Complete Weeding ,Manuring & Soil working, (1 mt. diameter around the plants)	15	4665	0	4665
4	Fire line tacing (2m. Wide fire line over 400 m. long) including maintenance of inspection path	3	933	0	933
5	Watch & Ward including watering as per requirement	18	5598	0	5598
6	Maintenance of Temporary labour Shed, Drinking Water facility and First Aid etc.	0	0	1000	1000
Total:-		36	11196	3800	14996
4th Year Maintenance					
1	Fire line tacing (2m. Wide fire line over 400 m. long) including maintenance of inspection path	3	933	0	933
2	Watch & Ward including maintenance of fencing	18	5598	0	5598
Total:-		21	6531	0	6531
5th Year Maintenance					
1	Fire line tacing (2m. Wide fire line over 400 m. long) including maintenance of inspection path	3	933	0	933
2	Watch & Ward	18	5598	0	5598
Total:-		21	6531	0	6531
6th Year Maintenance					
1	Fire line tacing (2m. Wide fire line over 400 m. long) including maintenance of inspection path	3	933	0	933
2	Pruning of branches, Singling out of multiple shoots	3	933	0	933
3	Watch & Ward	18	5598	0	5598
Total:-		24	7464	0	7464
7th Year Maintenance					
1	Fire line tacing (2m. Wide fire line over 400 m. long) including maintenance of inspection path	3	933	0	933
2	Watch & Ward	18	5598	0	5598
Total:-		21	6531	0	6531

Forest Range Officer
Bhubaneswar Range
Bhubaneswar
10

Divisional Forest Officer
City Forest Division, Bhubaneswar

8th Year Maintenance					
1	Fire line tacing (2m. Wide fire line over 400 m. long) including maintenance of inspection path	3	933	0	933
2	Watch & Ward	18	5598	0	5598
	Total:-	21	6531	0	6531
9th Year Maintenance					
1	Fire line tacing (2m. Wide fire line over 400 m. long) including maintenance of inspection path	3	933	0	933
2	Watch & Ward	18	5598	0	5598
	Total:-	21	6531	0	6531
	Grand Total:-				6531
10th Year Maintenance					
1	Fire line tacing (2m. Wide fire line over 400 m. long) including maintenance of inspection path	3	933	0	933
2	Watch & Ward	18	5598	0	5598
	Total:-	21	6531	0	6531


Asst. Conservator of Forests
City Forest Division,
Bhubaneswar

Divisional Forest Officer
City Forest Division, Bhubaneswar

Forest Range Officer
Bhubaneswar Range
Bhubaneswar

ABSTARCT (Seedling Cost Separately)						
Item of Work	No. of Mandays	Labour Cost	Material Cost	Monitoring, Evalution, Learning, Documentation & any other Contingency upto 5% of the total cost	Seedling Cost @ 50.31 per seedling	Total Cost
0th year	57	17727	3600	973	0	22300
1st year	76.5	23791.5	14600	1918.5	55341	95651
2nd year	38.5	11973.5	4475	821.5	5031	22301
3rd year	36	11196	3800	749	0	15745
4th year	21	6531	0	326	0	6857
5th year	21	6531	0	326	0	6857
6th year	24	7464	0	373	0	7837
7th year	21	6531	0	326	0	6857
8th year	21	6531	0	326	0	6857
9th year	21	6531	0	326	0	6857
10th year	21	6531	0	326	0	6857
Grand Total:-	358	111338	26475	6791	60372	204976


Asst. Conservator of Forests
City Forest Division,
Bhubaneswar


Divisional Forest Officer
City Forest Division, Bhubaneswar


Forest Range Officer
Bhubaneswar Range
Bhubaneswar

Matrix for Model - I A Conventional CA Plantation (AR) 1000 plants per Ha.																							
Sl. No	Commencement	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	CX	XVI	XVII	XVIII	XIX	XX	XXI	Total Cost (10 Years)
	Base norm	22300	95651	22301	15745	6857	6857	7837	6857	6857	6857	6857											
1	2021-22	22300	100434	24585	18226	8335	8751	10502	9648	10131	10637	11169											234718
2	2022-23		23415	105456	25814	19137	8752	9189	11027	10180	10638	11169	11727										246454
3	2023-24			24586	1E+05	27105	20094	9190	9648	11578	10637	11170	11727	12313									258777
4	2024-25				25815	116265	28460	21099	9650	10130	10187	11169	11729	12313	12929								271716
5	2025-26					27106	122078	29883	22154	10133	10537	12765	11727	12315	12929	13575							285302
6	2026-27						28461	1E+05	31377	23262	10640	11169	13403	12313	12931	13575	14254						299567
7	2027-28							29884	1E+05	32946	14473	11172	11727	14073	12929	13578	14254	14967					314546
8	2028-29								31378	1E+05	34593	25646	11731	12313	14777	13575	14254	14967	15715				330273
9	2029-30									32947	1E+05	36323	26928	12318	12929	13516	14254	14970	15715	16501			346788
10	2030-31										34594	155806	38139	28274	12934	13575	16292	14967	15719	16501	####		362127

Asst. Conservator of Forests
City Forest Division,
Bhubaneswar

Forest Range Officer
Bhubaneswar Range
Bhubaneswar

Divisional Forest Officer
City Forest Division, Bhubaneswar

Fencing Model-F-II						
Estimate for Chain Link wire mesh fencing with Iron Angle (250 Rmt/Ha.)						
Wage rate Rs.311/- Per day						
Sl. No.	Item of Work	Prefeable period of Execution	Mandays	Wage	Material Cost (Rs.)	Total Cost(Rs.per hect.)
1	Earthy work (Excavation of hole) in Hard soil at a distance 3 mt. 0.40m x 0.40m x 0.40m = 0.064 x 84 = 5.376 cum @ 140/- cum Rs. 753		2.42	752.62		752.62
2	Cement concrete (1:4:8) using 40 mm metal 84x0.40m x 0.4m x 0.1 = 1.344 @ 3755.94 per CM				5047.4	5047.4
3	Angle Iron pole of size 50 mm x 50mm x 6mm of height 2.40 meter 84x2.40 mt = 201.60 Sqmt @ 4.50 per kg. per				63050	63050
4	Cement concrete (1:2:4) for fixing the iron angle pole using 12mm BHG Chip 84 x 0.40 x 0.40 x 0.30 = 4.032 cum @ 5486.77 cum.				22123	22123
5	Cost of chain link 4 mm Dia GI wire having gap size 50mm x 50mm 250 Rmt. x 2.10 mter = 525 sq. meter @ 331 /Sqmt = 1,73,775				173775	173775
6	Painting of iron Angle pole in 2 coats of primer and good quality enamel paint 84 x 2.10 x 0.20 = 35.28 Sqmt. @ 108.80 per sqmt.				3838	3838
7	Painting of GI Chain wire mesh 250 x 2.10 x 2 = 1050/10 = 105 Sq mt. @ Rs.108.80 sqmt.				11424	11424
8	Transportation of GI Chain link mesh, Iron Angle, Straightening & tying of chain link etc @ 2% of the total cost				5600	5600
			2.42	752.62	284857.4	285610.02
Rate per running meter 2,85610 /250 = 1142/Rmt.						
1st year Maintenance						
1	No Maintenance required				0	0
2nd year maintenance						
1	Maintenance of Wire mesh fence				11000	11000
3rd year Maintenance						
1	Maintenance of Wire mesh fence				11000	11000
4th year Maintenance						
1	Maintenance of Wire mesh fence				11000	11000
5th Year maintenance						
1	Maintenance of Wire mesh fence				11000	11000
6th year Maintenance						
1	Maintenance of Wire mesh fence				11000	11000
7th Year Maintenance						
1	Maintenance of Wire mesh fence				11000	11000
8th year maintenance						
1	Maintenance of Wire mesh f				11000	11000
9th year maintenance						
1	Maintenance of Wire mesh fence				11000	11000
10th year Maintenance						
1	Maintenance of Wire mesh fence				11000	11000

Asst. Conservator of Forests
City Forest Division,
Bhubaneswar

Forest Range Officer
Bhubaneswar Range
Bhubaneswar

Divisional Forest Officer
City Forest Division, Bhubaneswar

ABSTARCT OF IRON CHAIN LINK FENCING

Sl. No	Year	No.of person days	Labour Cost @ 311/-	Materials Cost	Total Cost
1	0th year	2.42	752.62	284857.4	285612.44
2	1st year			0	0
3	2nd year			11000	11000
4	3rd year			11000	11000
5	4th year			11000	11000
6	5th year			11000	11000
7	6th year			11000	11000
8	7th year			11000	11000
9	8th year			11000	11000
10	9th year			11000	11000
11	10th year			11000	11000
Grand Total:-		2.42	752.62	383857.4	384610.02

Asst. Conservator of Forests
City Forest Division,
Bhubaneswar

Divbisional Forest Officer
City Forest Division , Bhubaneswar

Forest Range Officer
Bhubaneswar Range
Bhubaneswar

Matrix for Chain link fencing Model-F-II(Iron angle with Chain link wire mesh)																							
Sl. No.	Commencement	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI	Total Cost
	Base norm	285610	0	11000	11000	11000	11000	11000	11000	11000	11000	11000											
1	2021-22	285610	299891	12126	12734	13370	14039	14740	15478	16252	17064	17918											419331
2	2022-23			0	12732	133371	14040	14741	15477	16252	17063	17917	18814										440299
3	2023-24			314886	0	13369	14037	14741	15478	16251	17065	17918	18813	19755									462316
4	2024-25				330630	0	14742	15478	16252	17064	17917	18814	19754	10743									485432
5	2025-26					347167	364520	14739	15479	16252	17063	17918	18814	19755	10742	21780							509705
6	2026-27							0	15476	16753	176065	17918	18813	19755	10743	21779	22859						535191
7	2027-28							282746	0	16250	17066	17918	18814	19754	10743	21780	22868	24012					561951
8	2028-29								401883	0	17063	17919	18814	19755	10742	21780	22869	24011	25213				590049
9	2029-30									421977	0	17916	18813	19755	10743	21779	22869	24011	25212	26474			619552
10	2030-31										413076	0	18812	19756	10743	21780	22868	24012	25213	26473	27798		650531

Asst. Conservator of Forests
City Forest Division,
Bhubaneswar

Divisional Forest Officer

City Forest Division, Bhubaneswar

Forest Range Officer
Bhubaneswar Range
Bhubaneswar

SMC works Model -C			
Cost Norm for creation of Compensatory Afforestation with Stabillization of Soil & Moisture Conservation (1000 Plants/Ha.)			
WAGE RATE Rs.311/- Per Day			
Sl.No.	Item of works	Preferable period	Total Cost
0th Year			
1	Nil		
1st year			
2	Soil Conservation measure structure like staggered trench, percolation pit and requirement on L.S	Apr/Sept	20215
2nd Year			
3	Maintenance of SMC Structures @ 15% of iunitial year cost3	Apr/July	3032
3rd Year			
4	Maintenance of SMC Structures @ 15% of iunitial year cost3	Apr/July	3032
4th Year			
5	Maintenance of SMC Structures @ 15% of iunitial year cost3	Apr/July	3032
5th Year			
6	Maintenance of SMC Structures @ 15% of iunitial year cost3	Apr/July	3032
	Total		32343

A B S T R A C T					
Sl. No.	Year	No.of persons days	Labour Cost @ Rs.311/- per day	Material Cost	Total Cost
1	0th Year	0	0	20215	20215
2	1st year	0	0	3032	3032
3	2nd year	0	0	3032	3032
4	3rd Year	0	0	3032	3032
5	4th Year	0	0	3032	3032
6	5th Year	0	0	32343	32343

Asst. Conservator
City Forest Division
Bhubaneswar

Divisional Forest Officer
City Forest Division, Bhubaneswar

Forest Range Officer
Bhubaneswar Range
Bhubaneswar

Matrix for (SMC)																		
Sl. No.	Commencement	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	Total Cost
	Base norm	0	20215	3032	3032	3032	3032											
1	2021-22	0	21226	3342	3510	3685	3870	0										35633
2	2022-23			22287	3509	3686	3869	4064										37415
3	2023-24	0		0	23401	3684	3870	4062	4267									39284
4	2024-25				0	24571	3868	4064	4265	4480								41248
5	2025-26					0	25800	4061	4267	4478	4704							43310
6	2026-27						0	27090	4264	4480	4702	4939						45475
7	2027-28							0	28445	4477	4704	4937	5186					47749
8	2028-29								0	29867	4701	4939	5184	5445				50136
9	2029-30									0	31360	4936	5186	5443	5717			52642
10	2030-31										0	32928	5183	5445	5715	6003		55274

Asst. Conservator of Forests
City Forest Division,
Bhubaneswar

Forest Range Officer
Bhubaneswar Range
Bhubaneswar

Divisional Forest Officer
City Forest Division, Bhubaneswar

ANNEXURE - A

OFFICE OF THE TAHASILDAR, BHUBANESWAR
Email id tdrbbsr@gmail.com

Letter No _____ Rev./ Dt _____

The Chief General Manager (ENV),
IDCO, Bhubaneswar

Sub - Revised identification of Govt Land measuring to Ac.11.748 dec. in Village -
Bidyadharpur for Compensatory Afforestation required for Fortune Tower.

Ref - This office Letter No.10355/rev dt.21.10.2021.
Letter No.15597 dtd.15.09.2021 of CGM (Env),IDCO

Sir

With reference to the letter on the subject cited above, I am to say that a Govt land measuring to area an Ac.9.000 dec. of Kissam -Jungle was reported for Compensatory Afforestation in the letter under reference. But the said land is found to be not suitable on joint field visit verification of both Forest Official and Revenue Official in presence of IDCO Staff. The Joint Verification Team thereafter identified its neighbouring plot of Kissam - Parbat as detailed below is suitable for Compensatory Afforestation.

Hence, the revised identified plots are hereby suitable for necessary action at your end.

Land Schedule

Mouza	Khata No	Plot No	Area	Kissam
Bidyadharpur	137	4	Ac.5.893	Parbata
		5	Ac.5.855	Parbata
		Total	Ac.11.748	

Encl as above

Yours' Faithfully,

Tahasildar, Bhubaneswar

[Signature]
Divisional Forest Officer
City Forest Division, Bhubaneswar

[Signature]
Divisional Forest Officer
City Forest Division, Bhubaneswar

[Signature]
Forest Range Officer
Bhubaneswar Range
Bhubaneswar

ANNEXURE-B

Land Suitability Certificate

This is to certify that 4.5 Acs of land in Plot No.4 (Part) and 5(Part) , Khata No.137 of Mouza, Bidyadharpur under Bhubaneswar Tahasil of Khordha District identified for compensatory afforestation is found suitable for plantation from management point of view and is free from all sorts of encumbrances and encroachment.

Place Bhubaneswar

Date 23/3/2022


Divisional Forest Officer
City Forest Division, Bhubaneswar


Forest Range Officer
Bhubaneswar Range
Bhubaneswar


Divisional Forest Officer
City Forest Division, Bhubaneswar

**LAND SCHEDULE OF COMPENSATORY AFFORESTATION LAND IN MOUZA BIDYADHARPUR UNDER
BHUBANESWAR TEHASIL FOR APPROACH ROAD TO GOTHAPATANA INDUSTRIAL ESTATES.**

Name of Village : Bidyadharpur
Name of PS/No. : Chandaka - 47
Name of Tehasil : Bhubaneswar
Name of District : Khordha

Sl.No	Khata No.	Plot No.	Total Area	Proposed Area in		Kisam	Name of the Tenant
				Ac	Ha		
1	137(AAA)	4	Ac.5.893	3.370	1.363	Pahad	Govt. of Odisha
2	137(AAA)	5	Ac.5.855	1.130	0.458	Pahad	Govt. of Odisha
	Total	2	Ac.11.748	4.500	1.821		

Certified that the above land is free from encroachment and encumbrances.


Revenue Inspector
Balkorapur

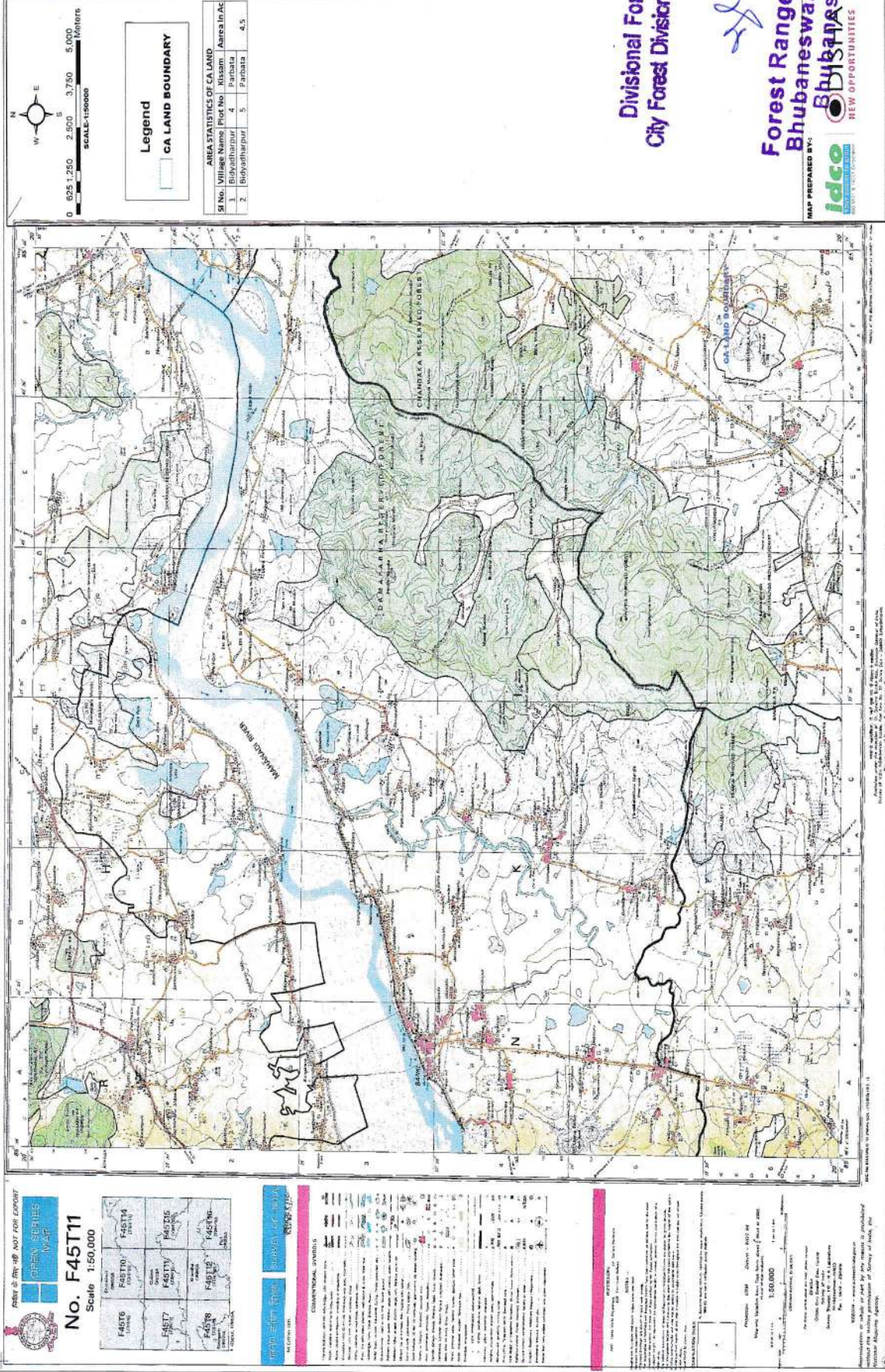

Tahasildar
BHUBANESWAR


Forest Range Officer
Bhubaneswar Range
Bhubaneswar


Divisional Forest Officer
City Forest Division, Bhubaneswar

ANNEXURE-D

**TOPO MAP SHOWING COMPENSATORY AFFORESTATION IN VILLAGE BIDYADHARPUR IN LIVE OF
FOREST DIVISION PROPOSAL FOR CONSTRUCTION OF APPROACH ROAD TO GOTHAPATNA INDUSTRIAL
ESTATE OF M/S IDCO UNDER BHUBANESWAR TAHASIL KHORDHA DISTRICT.**



Divisional Forest Officer
City Forest Division, Bhubaneswar

Forest Range Officer
Bhubaneswar Range
Bhubaneswar

MAP PREPARED BY:
idco
INDIAN DISTRICT COOPERATIVE SOCIETY

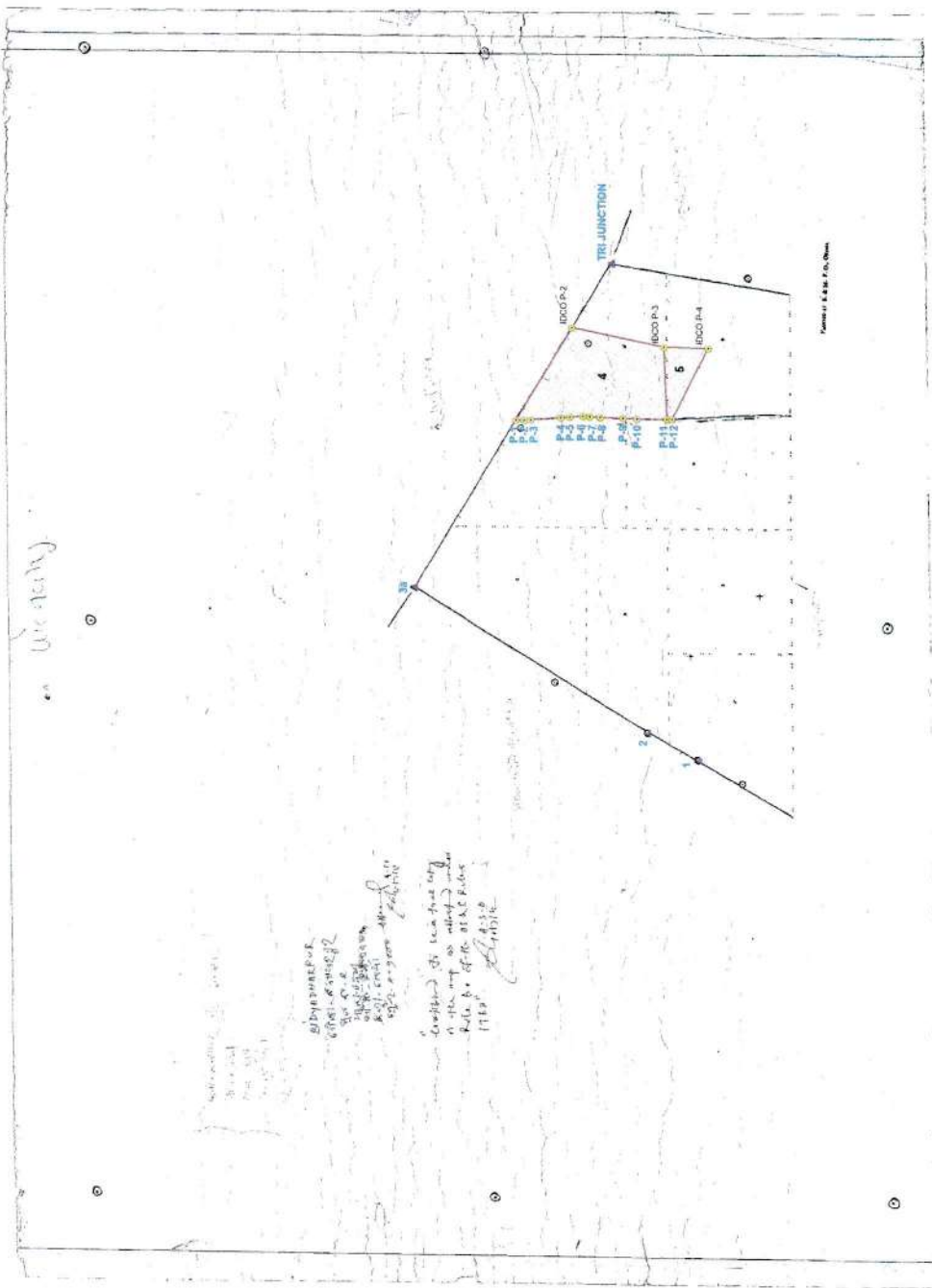
ADDITIONAL TAHASILDAR
Bhubaneswar

Divisional Forest Officer
City Forest Division, Bhubaneswar

Forest Range Officer
Bhubaneswar Range

ADDITIONAL TAHASILDAR
Bhubaneswar

DGPS SURVEYED MAP SHOWING COMPENSATORY AFFORESTATION AREA IN VILLAGE BIDYADHARPUR (SH-1)
UNDER BHUBANESWAR TAHASIL KHORDHA DISTRICT
IN LIEU OF FOREST DIVERSION PROPOSAL FOR CONSTRUCTION OF APPROACH ROAD TO GOTHAPATNA INDUSTRIAL ESTATE OF M/s. IDCO



DGPS SURVEYED CO-ORDINATES GEO-REFERENCED POINTS

Sl. No.	Point ID	Easting	Northing	Longitude	Latitude
1	P-1	367441.243	2242708.045	85°43'50.197"E	20°16'39.297"N
2	P-2	367475.905	2242772.315	85°43'51.375"E	20°16'41.390"N
3	P-3	367660.390	2243065.245	85°43'57.657"E	20°16'50.960"N
4	TRI JUNCTION	368064.566	2242816.841	85°44'11.653"E	20°16'42.990"N

DGPS SURVEYED C.PATCH BOUNDARY POINTS

Sl. No.	Point ID	Easting	Northing	Longitude	Latitude
1	P-1	367668.671	2242937.336	85°44'04.904"E	20°16'46.867"N
2	P-2	367668.274	2242926.980	85°44'04.893"E	20°16'46.524"N
3	P-3	367668.512	2242918.460	85°44'04.803"E	20°16'46.247"N
4	P-4	367871.893	2242980.564	85°44'04.959"E	20°16'45.015"E
5	P-5	367873.322	2242969.452	85°44'05.040"E	20°16'44.654"N
6	P-6	367873.656	2242952.745	85°44'05.063"E	20°16'44.111"N
7	P-7	367873.080	2242844.266	85°44'05.046"E	20°16'43.835"N
8	P-8	367872.237	2242831.007	85°44'05.020"E	20°16'42.732"N
9	P-9	367871.011	2242802.403	85°44'04.961"E	20°16'42.732"N
10	P-10	367870.047	2242785.078	85°44'04.957"E	20°16'41.909"N
11	P-11	367869.511	2242747.484	85°44'04.948"E	20°16'40.887"N
12	P-12	367869.689	2242741.218	85°44'04.956"E	20°16'40.829"N
13	IDCO P-2	367964.720	2242866.375	85°44'08.888"E	20°16'44.819"N
14	IDCO P-3	367960.198	2242751.080	85°44'08.073"E	20°16'40.262"N
15	IDCO P-4	367957.866	2242695.550	85°44'08.007"E	20°16'39.019"N

AREAS STATISTICS OF COMPENSATORY AFFORESTATION PATCH

Sl. No.	Area Name	Plot No.	Allocated Area, Ha	Map Area, Ha
1	Bidyadharpur	4	4.500	1.821
2	Gothapatna	5	4.500	0.889
	TOTAL AREA		4.500	1.821

Legend

- DGPS SURVEY CO-ORDINATES OF GEO-REFERENCED POINTS
- DGPS SURVEYED DEMARCATORY BOUNDARY POINTS
- COMPENSATORY AFFORESTATION PATCH

26/2/12
14-02-2012
Divisional Forest Officer
City Forest Division, Bhubaneswar

Disclaimer: DGPS Survey has been Carried out on the pillars/points as shown by User Agency on the ground.

Divisional Forest Officer
City Forest Division, Bhubaneswar
Forest Range Officer
Bhubaneswar Range
Bhubaneswar

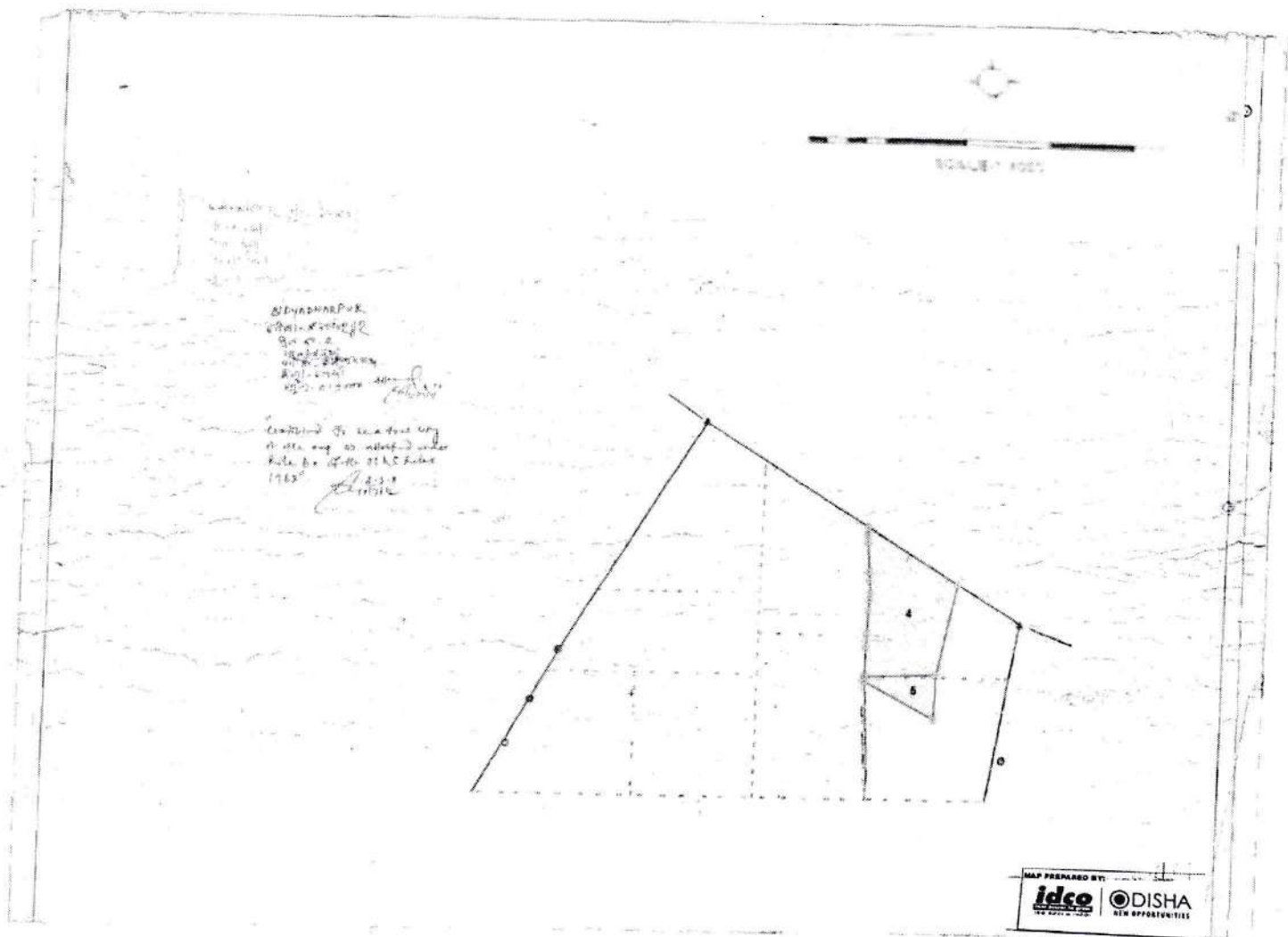
ADIL TAHASILDAR
BHUBANESWAR

Forest Range Officer
Bhubaneswar Range
Bhubaneswar

10.10.10
10.10.10

Divisional Forest Officer
City Forest Division, Bhubaneswar

MAP SHOWING NON-FOREST GOVT LAND MEASURING AN AREA OF 4.5 AC IN VILLAGE BIDYADHARPUR, SH-1, TEHASIL BHUBANESWAR FOR COMPENSATORY AFFORESTATION FOR THE LAND TO BE DIVERTED FOR CONSTRUCTION OF APPROACH ROAD IN GOTHAPATANA I.E.



Revenue Inspector
Paikarpur

Tahasildar
BHUBANESWAR

Forest Range Officer
Bhubaneswar Range
Bhubaneswar

Divisional Forest Officer
City Forest Division, Bhubaneswar