

SITE SPECIFIC COMPENSATORY AFFORESTATION SCHEME

Diversion of 12.206 hectare forest land for implementation of Single Line Broad Gauge Railway Project from Amarda Road to Choumukh under Baliapal Tahasil of Balasore district by M/s Subarnarekha Port Private Limited

Balasore Wildlife Division, Balasore

OFFICE OF THE COLLECTOR, BALASORE

(REVENUE SECTION)

No. 8270/Rev

Dated. 23/09/2022

To

The Divisional Forest Officer,
Balasore Wild Life Division, Balasore.

Sub- Diversion of Ha.12.206 Forest land for Railway connectivity From Amarda Road to Subarnarekha Port.

Sir

With reference to the subject cited above, I am to say that degraded forest land to the extent of Ac. 60.35dec (Ha. 24.423) has been selected in Mouza Nuaganjan, Khata No. 396 (Rakhita), Plot No. 75 Kissam- Jungle under Nilgiri Tahasil for compensatory afforestation in lieu of diversion of Ha. 12.206 Forest land for Railway connectivity to Subarnarekha Port in Baliapal Tahasil. Tahasildar, Nilgiri has submitted in his Letter No. 2484 Dt. 19.09.22 that, the above land is free from encroachment and encumbrances.

The above patch of degraded Revenue forest land will be transferred and mutated in favour of the Forest Department, Govt. of Odisha for compensatory afforestation on receipt of Stage-I approval, under the FC Act 1980.

Report of Tahasildar and R.I., Chhatrapur along with the trace map is enclosed herewith for further action at your end.

Yours faithfully,

Collector, Balasore

Memo No. 8271/Rev

Dated. 23/9/2022

Copy forwarded to the Sub-Collector, Nilgiri/ Tahasildar, Nilgiri for information and necessary action.

Collector, Balasore

Memo No. 8272/Rev

Dated. 23/09/2022

Copy forwarded to the Executive Vice President, Subarnarekha Port Pvt. Ltd., Bhubaneswar for information and necessary action.

Collector, Balasore

Land Schedule of Compensatory Afforestation Land as per the guideline issued in the Handbook Guideline of Forest (Conservation) Act, 1980 and Forest (Conservation) Rules, 2003 issued by the Govt. of India, MoEF& CC in lieu of diversion of 12.206 Ha. of Forest land for implementation of Railway Connectivity from Amarda Road Railway Station to Choumukh village under BaliapalTahasil by M/s Subarnarekha Port Private Limited

District	Tahasil	RI Circle	Mouza	Khata No.	Plot No.	Kissam	Area selected for CA
Balasure	Nilgiri	Chhatrapur	Nuagaonsan	396 (Rakhita)	75 (P)	Jungle	26.897 ha.



Tahasildar, Nilgiri

**TAHASILDAR
NILAGIRI**



Divisional Forest Officer
Balasure WL Division, Balasure

For SUBARNAREKHA PORT PRIVATE LTD.



Authorized Signatory(ies)



OFFICE OF THE TAHASILDAR, NILGIRI, BALASORE

e-mail : tah.nilgiri-od@nic.in

Ph : (06782) 233233

No. 2486 /

Dt. 19/9/22

To

The Collector & District Magistrate,
Balasore.

Sub:

Present Status report of the proposed land bearing Khata No. 396 (Rakhit) Plot No. 75 Kissam – Jungle Area – A.93,898 dec. for compensatory afforestation in lieu of diversion.

Sir,

With reference to the subject cited above, I am to furnish herewith the report of enquiry conducted by R.I. Chhatrapur with trace map there on for the purpose of compensatory afforestation in lieu of forest land diversion for proposed rail and road connectivity to Subarnarekha Port. In this context, I am to intimate that out of total area of Ac. 215.70 dec. Kissam – Jungle, Area- Ac. 60.35 dec. has been proposed for diversion for rail connectivity and Ac.33.54dec. has been proposed diversion for road connectivity as per communication made by Port Authority. The field verification reveals that both the land patches are free from encroachment and other encumbrances.

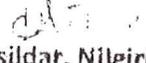
Therefore, the land schedule as provided above may be taken forward for the purpose for which it is reported.

Yours faithfully,


Tahasildar, Nilgiri

Memo No. _____ / Dt. _____

Copy submitted to the Sub-Collector, Nilgiri / D.F.O., Wild Life Division, Balasore for kind information and necessary action.


Tahasildar, Nilgiri

Memo No. _____ / Dt. _____

Copy to the Executive Vice-President, Subarnarekha Port Pvt. Ltd., Bhubaneswar for information and necessary action.

Tahasildar, Nilgiri

OFFICE OF THE REVENUE INSPECTOR,
CHHATRAPUR.

Letter NO-104 dt. 14.09.2022

14/9/22

To
The Tahasildar, Nalgiri.
(Subj: Issue of non-encumbrance and
non-encroachment certificate of village
Nragansan.

Ref:- Tahasil office memo no. 653, dt 15/3/22
(Ger,

with due respect as per subject cited above
I have visited village Nragansan, Khata
no - 396 (Rakhit), Plot no - 75, kisan -
jungle, AC - 60.350 out of AC - 215.70 is
free from encroachment and encumbrance
for the purpose of afforestation. At the time
of my spot enquiry, I havenot received any
objection from the local villagers for afforestation -
against forest diversion of proposed railway
corridor of Suvarna Rekha port project in
Balasore District.

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

Land Schedule:-

Mz - Nragansan
Khata - 396 (Rakhit)
Plot no - 75 (jungle)
Area - AC. 60.350 of
FOR SUBARNAREKHA PORT AND WAREHOUSE LTD.

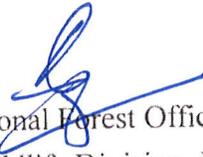
Subscribed.
14/9/22


Authorised Signatory

Certificate

This to certify that, an area 24.423 Ha. of degraded Revenue Forest land has been identified in two feasible patches i.e. Patch-I = 18.115 Ha. & Patch- II = 8.782 Ha. Both patches are covering a gross area 26.897 Ha. over Khata No. 396, Plot No. 75 of village Nuagaonsan of NilgiriTahasil under jurisdiction of Nilgiri Wildlife Range of Balasore Wildlife Division is found suitable for Compensatory Afforestation as per the guideline issued in the Handbook Guideline of Forest (Conservation) Act, 1980 and Forest (Conservation) Rules, 2003 issued by the Govt. of India, MoEF& CC in lieu of diversion of 12.206 Ha. of Forest land for implementation of Railway Connectivity from Amarda Road Railway Station to Choumukh village under BaliapalTahasil by M/s Subarnarekha Port Private Limited, the User Agency (UA).

Date:


Divisional Forest Officer
Balasore Wildlife Division, Balasore

For SUBARNAREKHA PORT PRIVATE LTD.


Authorised Signatory(ies)

CERTIFICATE ON DSS ANALYSIS FOR CA / ACA / PCA

This is to certify that DSS Analysis of land identified for CA/ACA/PCA and subsequent ground truthing have been done. The outcome is as mentioned below.

Sl. No.	Name of Range	Name of the Forest Block (RF/ PRF/ PF/ DPF/ Revenue Forest)	Area identified for CA/ ACA /PCA (in ha.)	Classification of identified land (in ha.)								Area suitable for plantation (in ha.)				Plantation Model (AR/ ANR)	Remarks
				Very Dense Forest	Moderately Dense Forest	Open Forest	Non-Forest	Scrub	Water	Total	Open Forest	Non-Forest	Scrub	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
01	Nilgiri WL Range	Revenue Forest (Patch - I)	CA	-	-	18.115	-	-	-	18.115	16.923	-	-	16.923	AR	-	
02		Revenue Forest (Patch - II)	CA	-	-	8.782	-	-	-	8.782	7.500	-	-	7.500	AR	-	
Total				-	-	26.897	-	-	-	26.897	24.423	-	-	24.423	-	-	


 Divisional Forest Officer
 Balasore Wildlife Division, Balasore

Countersigned

Field Director, Similipal TR -cum-
 Regional CCF, Baripada Circle
 Baripada.

For SUBARNAREKHA PORT PRIVATE LTD.

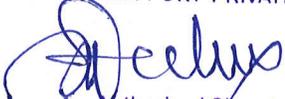

 Authorised Signatory(ies)

Certificate

This to certify that, no plantation has been carried out in the plot / site identified over Khata No. 396, Plot No. 75 of village Nuagaonsan of Nilgiri Tahasil under jurisdiction of Nilgiri Wildlife Range of Balasore Wildlife Division in any scheme previously.


Divisional Forest Officer
Balasore Wildlife Division, Balasore

For SUBARNAREKHA PORT PRIVATE LTD.


Authorised Signatory(ies)

COMPENSATORY AFFORESTATION SCHEME

-: PROJECT: -

SCHEME FOR SITE SPECIFIC COMPENSATORY AFFORESTATION OVER 24.423 HA OF DEGRADED REVENUE FOREST LAND IN VILLAGE NUAGAONSAN UNDER NILGIRI TAHASIL OF BALASORE DISTRICT COMES UNDER JURISDICTION OF NILGIRI WILDLIFE RANGE OF BALASORE WILDLIFE DIVISION, BALASORE IN LIEU OF DIVERSION OF 12.206 HA. OF FOREST LAND FOR IMPLEMENTATION OF RAILWAY PROJECT FROM AMARDA ROAD TO CHOUMUKH UNDER BALIAPAL TAHASIL OF BALASORE DISTRICT BY M/S SUBARNAREKHA PORT PRIVATE LIMITED.

Name of the Site : Degraded Revenue Forest in village Nuagaonsan (Part of Plot No. 75, Khata No. 396 (Rakhita), Kisam Jungle.)

Extent of Area	Patch	Gross CA Area as per DGPS
	Patch – I	18.115 Ha.
	Patch – II	8.782 Ha.
	Total:	26.897 Ha.

Net Plant-able Area	Patch	Net plant-able Area
	Patch – I	16.923 Ha.
	Patch – II	7.500 Ha.
	Total:	24.423 Ha.

Afforestation Model : Block Plantation @ 1600 Plant per Ha.

Period of Project : 10 years

Executing Agency : Forest, Environment & Climate Change Department, Govt. of Odisha
Balasore Wildlife Division, Balasore
Nilgiri Wildlife Range, Nilgiri
Sajanagarh Section
Matiali Beat


Divisional Forest Officer
Balasore (WL) Division
Balasore

For SUBARNAREKHA PORT PRIVATE LTD.


Authorised Signatory(ies)

Introduction :

The User Agency, Subarnarekha Port Pvt. Limited have applied Forest Diversion Proposal through PARIVESH portal vide Online Application No. FP/OR/RAIL/155820/2022 for diversion of 12.206 hectare forest land of different legal status for implementation of single line broad gauge railway connectivity from Amarda Road station to the Subarnarekha Port under Forest (Conservation) Act, 1980.

Vide Letter No. 291/Rev. dated 11.01.2022, the Collector & DM, Balasore has provided Plot No. 75, Khata No. 396, Kissam : Jungle in village Nuagaonsan under Nilgiri Tahasil for raising Compensatory Afforestation with the cost of the User Agency and requested the Divisional Forest Officer, Balasore WL Division & Tahasildar, Nilgiri to ascertain suitability of the land. Accordingly, the land has been selected for the purpose after joint verification in presence of the concerned Revenue & Forest Officials.

The Govt. of India, MoEF&CC (FC Division) in their F.No. 5-2/2017-FC dt.28.03.2019 have issued necessary handbook guideline & clarification on Forest Conservation Act, 1980 & Forest Conservation Rules, 2003, where Paragraph – 2.5 (f) provides special provisions for Compensatory Afforestation over degraded forest land of twice in extent of the forest area diverted in the case of the project implemented by the Central Govt. / PSUs through State Governments.

Again, Paragraph – 2.8 (ii) of the said handbook guideline prescribes Compensatory Afforestation scheme over degraded forest land shall be prepared for minimum 1000 saplings per hectare of identified CA land with 10 years maintenance.

In this respect, 24.423 hectare identified in two patch having gross area 26.897 hectare (Patch – I : 18.115 hectare & Patch – II : 8.782 hectare) over Plot No. 75, Khata No. 396, Kissam : Jungle in village Nuagaonsan under Nilgiri Tahasil of Nilgiri Wildlife Range, Nilgiri under Balasore Wildlife Division for the purpose. The selected CA land has been depicted in Survey of India Topo Sheet No. F45010 as well as KML file also.


**Divisional Forest Officer
Balasore (WL) Division
Balasore**

For SUBARNAREKHA PORT PRIVATE LTD.


Authorised Signatory(ies)

Geo Coordinates of the patch identified for taking up Compensatory Afforestation

(Patch - I)

Sl. No.	Chainage (in mtr)		Geo Co-ordinates							
	Pillar No.	In mtr	DD	MM	SS	Longitude	DD	MM	SS	Latitude
1	1-2	62.888	86	35	12.031	86.586675	21	31	6.741	21.518539
2	2-3	38.241	86	35	13.737	86.587149	21	31	5.461	21.518184
3	3-4	82.279	86	35	14.537	86.587371	21	31	6.455	21.51846
4	4-5	17.416	86	35	16.561	86.587934	21	31	4.565	21.517935
5	5-6	17.126	86	35	16.475	86.58791	21	31	4.004	21.517779
6	6-7	26.62	86	35	17.022	86.588062	21	31	3.786	21.517718
7	7-8	19.912	86	35	17.632	86.588231	21	31	4.437	21.517899
8	8-9	90.154	86	35	17.144	86.588096	21	31	4.896	21.518027
9	9-10	32.688	86	35	15.227	86.587563	21	31	7.216	21.518671
10	10-11	313.308	86	35	15.960	86.587767	21	31	8.028	21.518897
11	11-12	13.505	86	35	25.192	86.590331	21	31	2.622	21.517395
12	12-13	57.091	86	35	24.917	86.590255	21	31	2.266	21.517296
13	13-14	126.355	86	35	26.555	86.59071	21	31	1.218	21.517005
14	14-15	55.856	86	35	30.607	86.591835	21	30	59.633	21.516565
15	15-16	29.636	86	35	30.664	86.591851	21	30	57.817	21.51606
16	16-17	66.275	86	35	29.634	86.591565	21	30	57.809	21.516058
17	17-18	79.875	86	35	27.890	86.591081	21	30	56.400	21.515667
18	18-19	94.886	86	35	25.430	86.590397	21	30	57.605	21.516001
19	19-20	83.896	86	35	27.227	86.590896	21	31	0.192	21.51672
20	20-21	12.762	86	35	24.638	86.590177	21	31	1.447	21.517069
21	21-22	72.52	86	35	24.324	86.59009	21	31	1.154	21.516987
22	22-23	21.388	86	35	22.289	86.589525	21	31	2.546	21.517374
23	23-24	33.135	86	35	21.827	86.589396	21	31	2.001	21.517223
24	24-25	31.967	86	35	20.759	86.5891	21	31	2.405	21.517335
25	25-26	26.735	86	35	21.007	86.589169	21	31	3.418	21.517616
26	26-27	17.202	86	35	20.203	86.588945	21	31	3.856	21.517738
27	27-28	42.848	86	35	20.000	86.588889	21	31	3.329	21.517592
28	28-29	47.731	86	35	20.142	86.588928	21	31	1.942	21.517206
29	29-30	28.618	86	35	21.051	86.589181	21	31	0.643	21.516845
30	30-31	10.144	86	35	21.539	86.589316	21	30	59.832	21.51662
31	31-32	12.271	86	35	21.369	86.589269	21	30	59.543	21.51654
32	32-33	62.763	86	35	21.761	86.589378	21	30	59.385	21.516496
33	33-34	36.733	86	35	22.478	86.589577	21	30	57.457	21.51596
34	34-35	79.475	86	35	23.446	86.589846	21	30	56.678	21.515744
35	35-36	106.855	86	35	25.686	86.590468	21	30	55.166	21.515324
36	36-37	47.812	86	35	29.341	86.591484	21	30	54.545	21.515151
37	37-38	28.265	86	35	30.816	86.591893	21	30	55.262	21.515351
38	38-39	36.903	86	35	30.794	86.591887	21	30	54.343	21.515095
39	39-40	28.239	86	35	29.545	86.59154	21	30	54.068	21.515019


Divisional Forest Officer

For SUBARNAREKHA PORT PRIVATE LTD.


 Authorised Signatory (ies)

Sl. No.	Chainage (in mtr)		Geo Co-ordinates							
	Pillar No.	In mtr	DD	MM	SS	Longitude	DD	MM	SS	Latitude
40	40-41	85.069	86	35	28.626	86.591285	21	30	53.746	21.514929
41	41-42	49.383	86	35	26.094	86.590582	21	30	52.317	21.514532
42	42-43	86.677	86	35	25.189	86.59033	21	30	50.951	21.514153
43	43-44	128.999	86	35	24.467	86.59013	21	30	48.214	21.513393
44	44-45	87.029	86	35	22.163	86.58949	21	30	51.813	21.514393
45	45-46	33.701	86	35	20.031	86.588898	21	30	53.822	21.514951
46	46-47	113.705	86	35	20.048	86.588902	21	30	54.918	21.515255
47	47-48	6.953	86	35	16.153	86.58782	21	30	55.545	21.515429
48	48-49	20.56	86	35	16.074	86.587798	21	30	55.759	21.515489
49	49-50	28.228	86	35	15.450	86.587625	21	30	56.085	21.515579
50	50-51	41.328	86	35	14.484	86.587357	21	30	55.922	21.515534
51	51-52	24.635	86	35	13.157	86.586988	21	30	56.436	21.515677
52	52-53	58.122	86	35	13.083	86.586968	21	30	55.638	21.515455
53	53-54	25.752	86	35	15.002	86.587501	21	30	55.046	21.515291
54	54-55	113.097	86	35	14.931	86.587481	21	30	54.211	21.515059
55	55-56	32.76	86	35	11.125	86.586424	21	30	55.132	21.515315
56	56-57	35.431	86	35	10.031	86.58612	21	30	55.428	21.515397
57	57-58	61.494	86	35	9.298	86.585916	21	30	54.502	21.51514
58	58-59	107.715	86	35	7.891	86.585525	21	30	56.007	21.515558
59	59-60	78.386	86	35	4.760	86.584656	21	30	54.086	21.515024
60	60-61	51.237	86	35	2.892	86.584137	21	30	55.942	21.51554
61	61-62	53.533	86	35	4.071	86.584464	21	30	57.191	21.515887
62	62-63	46.852	86	35	5.460	86.58485	21	30	58.351	21.516209
63	63-64	24.938	86	35	6.649	86.58518	21	30	59.391	21.516498
64	64-65	25.729	86	35	7.500	86.585417	21	30	59.237	21.516455
65	65-66	47.809	86	35	8.312	86.585642	21	30	59.590	21.516553
66	66-67	25.815	86	35	7.751	86.585487	21	31	1.053	21.516959
67	67-68	50.869	86	35	8.242	86.585623	21	31	1.757	21.517155
68	68-69	9.174	86	35	9.572	86.585992	21	31	2.847	21.517457
69	69-70	4.267	86	35	9.830	86.586064	21	31	3.021	21.517506
70	70-71	34.245	86	35	9.918	86.586088	21	31	2.909	21.517475
71	71-72	85.261	86	35	10.935	86.586371	21	31	2.331	21.517314
72	72-73	40.182	86	35	12.667	86.586852	21	31	4.581	21.517939
73	73-74	25.093	86	35	11.534	86.586537	21	31	5.345	21.518152
74	74-1	20.516	86	35	11.712	86.586587	21	31	6.145	21.518374

For SUBARNAREKHA PORT PRIVATE LTD.


Authorised Signatory(ies)


Divisional Forest Officer
Balasore (WL) Division
Balasore

Patch - II

Sl. No.	Chainage (in mtr)		Geo co-ordinates							
	Pillar No.	In mtr	DD	MM	SS	Longitude	DD	MM	SS	Latitude
1	75-76	42.256	86	34	58.690	86.58297	21	31	2.590	21.517386
2	76-77	13.44	86	34	59.476	86.583188	21	31	3.751	21.517709
3	77-78	100.127	86	34	59.487	86.583191	21	31	4.188	21.51783
4	78-79	104.236	86	35	0.711	86.583531	21	31	7.236	21.518677
5	79-80	48.708	86	35	2.287	86.583969	21	31	10.290	21.519525
6	80-81	10.11	86	35	3.169	86.584214	21	31	8.937	21.519149
7	81-82	79.825	86	35	3.520	86.584311	21	31	8.957	21.519155
8	82-83	13.476	86	35	6.069	86.585019	21	31	7.931	21.51887
9	83-84	92.533	86	35	6.242	86.585067	21	31	7.524	21.518757
10	84-85	65.311	86	35	9.174	86.585882	21	31	6.286	21.518413
11	85-86	74.029	86	35	9.837	86.586066	21	31	8.318	21.518977
12	86-87	31.221	86	35	12.054	86.586682	21	31	7.097	21.518638
13	87-88	25.434	86	35	11.578	86.586549	21	31	6.185	21.518385
14	88-89	67.788	86	35	11.385	86.586496	21	31	5.377	21.51816
15	89-90	7.3	86	35	10.091	86.586136	21	31	3.535	21.517649
16	90-91	11.33	86	35	9.982	86.586106	21	31	3.320	21.517589
17	91-92	30.478	86	35	9.640	86.586011	21	31	3.137	21.517538
18	92-93	11.98	86	35	8.871	86.585798	21	31	2.456	21.517349
19	93-94	18.021	86	35	8.539	86.585705	21	31	2.220	21.517283
20	94-95	23.136	86	35	8.080	86.585578	21	31	1.821	21.517173
21	95-96	78.72	86	35	7.672	86.585464	21	31	1.173	21.516992
22	96-97	45.863	86	35	5.910	86.584975	21	30	59.214	21.516448
23	97-98	49.47	86	35	4.601	86.584612	21	31	0.066	21.516685
24	98-99	5.259	86	35	3.501	86.584306	21	30	58.829	21.516342
25	99-100	40.637	86	35	3.323	86.584257	21	30	58.789	21.51633
26	100-101	63.463	86	35	4.212	86.584503	21	30	57.762	21.516045
27	101-102	17.194	86	35	2.712	86.584087	21	30	56.248	21.515624
28	102-103	36.65	86	35	2.146	86.58393	21	30	56.427	21.515674
29	103-104	37.31	86	35	2.529	86.584036	21	30	57.564	21.51599
30	104-105	14.298	86	35	2.084	86.583912	21	30	58.704	21.516307
31	105-106	76.934	86	35	1.590	86.583775	21	30	58.751	21.51632
32	106-107	104.645	86	35	0.726	86.583535	21	31	1.119	21.516978
33	107-108	54.997	86	35	3.328	86.584258	21	31	3.498	21.517638
34	108-109	28.644	86	35	2.940	86.58415	21	31	5.250	21.518125
35	109-110	36.546	86	35	2.068	86.583908	21	31	5.700	21.51825
36	110-111	84.269	86	35	1.612	86.583781	21	31	4.591	21.517942
37	111-112	22.72	86	35	1.039	86.583622	21	31	1.903	21.517195
38	112-113	11.975	86	35	0.329	86.583425	21	31	2.225	21.517285
39	113-114	14.046	86	34	59.913	86.583309	21	31	2.196	21.517277
40	114-115	12.798	86	34	59.853	86.583292	21	31	1.743	21.517151
41	115-116	17.054	86	34	59.601	86.583222	21	31	1.399	21.517055

For SUBARNAREKHA PORT PRIVATE LTD.


 Divisional Forest Officer
 Balasore (S.I.) Division


 Authorised Signatory(ies)

Sl. No.	Chainage (in mtr)		Geo co-ordinates							
	Pillar No.	In mtr	DD	MM	SS	Longitude	DD	MM	SS	Latitude
42	116-117	8.133	86	34	59.094	86.583082	21	31	1.688	21.517136
43	117-118	16.038	86	34	58.930	86.583036	21	31	1.473	21.517076
44	118-119	16.972	86	34	58.547	86.58293	21	31	1.094	21.516971
45	119-120	80.132	86	34	58.245	86.582846	21	31	0.620	21.516839
46	120-121	86.9	86	35	0.451	86.583459	21	30	59.028	21.516397
47	121-122	71.973	86	34	58.553	86.582931	21	30	56.829	21.515786
48	122-123	39.726	86	34	56.668	86.582408	21	30	58.368	21.516213
49	123-124	24.393	86	34	55.751	86.582153	21	30	57.402	21.515945
50	124-125	47.681	86	34	55.201	86.582	21	30	56.798	21.515777
51	125-126	28.764	86	34	53.558	86.581544	21	30	56.589	21.515719
52	126-127	48.946	86	34	53.119	86.581422	21	30	55.749	21.515486
53	127-128	32.797	86	34	52.754	86.581321	21	30	54.194	21.515054
54	128-129	96.917	86	34	51.691	86.581025	21	30	54.579	21.515161
55	129-130	39.848	86	34	53.228	86.581452	21	30	57.384	21.51594
56	130-131	52.232	86	34	53.984	86.581662	21	30	58.470	21.516242
57	131-132	20.15	86	34	55.749	86.582152	21	30	58.073	21.516131
58	132-133	17.373	86	34	55.912	86.582198	21	30	58.710	21.516308
59	133-134	32.738	86	34	56.412	86.582337	21	30	59.028	21.516397
60	134-135	9.54	86	34	55.624	86.582118	21	30	59.796	21.51661
61	135-136	15.572	86	34	55.733	86.582148	21	31	0.088	21.516691
62	136-137	10.715	86	34	56.266	86.582296	21	31	0.176	21.516716
63	137-138	14.443	86	34	56.394	86.582332	21	31	0.503	21.516806
64	138-139	29.878	86	34	56.835	86.582454	21	31	0.728	21.516869
65	139-75	52.384	86	34	57.790	86.58272	21	31	1.109	21.516975

Description of area selected for taking up Compensatory Afforestation

Details of Degraded Revenue Forest Block	:	Plot No. 75, Khata No. 396 in village Nuagaonsan under Nilgiri Tahasil
Area	:	Surveyed GIS Area : 26.897 hectare (Patch – I : 18.115 hectare & Patch – II : 8.782 hectare) Net Plantable Area : 24.423 hectare Perimeter : 6476.00 Mtr. (Patch – I : 3856.92 Mtr. or say 3857.00 Mtr & Patch – II : 2618.48 Mtr. or say 2619.00 Mtr.)
Administrative Jurisdiction	:	Balasure Wildlife Division, Balasure Nilgiri Wildlife Range, Nilgiri Sajnararh Wildlife Section, Sajnararh Matiali Wildlife Beat

For SUBARNAREKHA PORT PRIVATE LTD.


**Divisional Forest Officer
Balasure (WL) Division**


Authorised Signatory(ies)

Topography	:	Gently undulating plains.	
Soil Type	:	Lateritic soil	
Drainage	:	Rain pour water spreads over area and mostly percolates. The area is free of water logging.	
Present Vegetation	:	Degraded forest with bushy vegetation, grassy patches at some places and scatteredly contained some standing pole size crop of species Sal, Kendu, Chara, Rohini, Gohira etc.	
Type of Plantation	:	Block Plantation @ 1600 saplings per Ha. with angle iron & chain link wire mesh fencing.	
Choice of Species	:	Khaira (<i>Acacia catechu</i>) Babool (<i>Acacia nilotica</i>) Neem (<i>Azadirachta indica</i>) Bali Sissoo (<i>Dalbergia Sissoo</i>) Pahadi Sissoo (<i>Dalbergia latifolia</i>) Karanja (<i>Pongamia pinnata</i>) Kala Sirisa (<i>Albizia Lebbeck</i>)	Dhala Sirisa (<i>Albizia Procera</i>) Piasal (<i>Pterocarpus marsupium</i>) Kusum (<i>Schleichera oleosa</i>) Jamu (<i>Syzygium cuminii</i>) Arjun (<i>Terminalia arjuna</i>) Barakoli (<i>Ziziphus mauritiana</i>)

Technical Details :

Objective of the scheme : The main objective of the present scheme to take up block plantation @1600 Plants per Ha. in the degraded revenue forest land over Plot No. 75, Khata No. 396, Kissam : Jungle in village Nuagaonsan under Nilgiri Tahasil of Nilgiri Wildlife Range, Nilgiri under Balasore Wildlife Division. It further seeks suitable soil conservation measures such as one solar energy water pump, staggered trench, percolation pits, contour trench, graded earthen bund, loose boulder check dam, wire mesh loose boulder check dam, sub surface dyke and water harvesting structure as per slope & site requirement for enrichment of eco-system / ground water table and to provide rain water storage to moist the root stock of plantation during dry spell of the season.

Item of Works to be taken up :

- Geo referred survey & demarcation of the boundary : As per the map & boundary geo-coordinates provided in this scheme.
- Angle iron & chain link wire mesh fencing (250 running meter per hectare).
- Site preparation, uprooting & removal of unwanted bushy growth and regeneration pruning of the scatterly standing pole size crops.

For SUBARNAREKHA PORT PRIVATE LTD.


 Divisional Forest Officer
 Balasore (WV) District


 Authorised Signatory(ies)

- i. Soil Moisture Conservation Measures.
- v. Planting & Post planting operation with 10 years maintenance.
- vi. Supervision & monitoring.
- vii. Peoples participation

Survey Demarcation of Boundary :

The identified area has been DGPS surveyed by Subarnarekha Port Pvt. Limited taking the geo-coordinates at the major turning points. The geo referred area polygon map prepared in the GIS domain with the geo-coordinates of the respective station points have been annexed to this scheme. Prior to going for any pre planting operation, the field survey & demarcation of the station points is necessary as per the geo coordinates & the field book containing forward bearing & segment distance. The area boundary station points demarcated shall be posted with T - shape precast RCC pillars of size 1.5 mtr. x 15 cm x 15 cm.

Fencing :

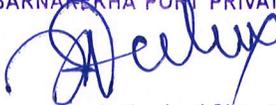
As this compensatory afforestation shall be with a 10 years maintenance, necessary provision of Angle iron & chain link wire mesh fencing (250 running meter per hectare) all around the plantation area along the boundary perimeter has been provided in the prescribed norm cost issued by the PCCF & HoFF, Odisha vide his Office Order No. 1109/9F-(Misc.)-387/2021 dated 08.09.2021. The year wise expenditure breakup is shown in details of work schedule with financial outlay.

Site preparation :

As the area mostly contain unwanted bushy & weed growth, prior to pitting work, the ground flora of the bushy growth, thorns, weeds shall be cut, removed & uprooted. So that, it will not coppice again & suppress the planting stock. The regular coppicing & cutting of the bushy growth shall not require cutting again if the rootstock is uprooted & removed. During the selection of the site, it is observed that the area contains scatterly existed some pole size corps. As the afforestation for 1600 plants per hectare, the existed pole size corps shall be pruned and multiple shoots shall be removed to make it established. Any leftover stumps found in the area during the site preparation shall be uprooted & removed.


Divisional Forest Officer
Balasore (W.) Division

For SUBARNAREKHA PORT PRIVATE LTD.


Authorised Signatory(ies)

Soil Moisture Conservation Measures :

The Principal Chief Conservator of Forests & HoFF, Odisha in his Office Order No. 1109/9F-(Misc.)-387/2021 dated 08.09.2021 has prescribed the norm cost for the soil conservation measures which has been included in this Compensatory Scheme. The soil moisture conservation strategy adopted in this scheme will provide collection, storage of the rain water and the water shall percolate to the root stock of the plantation during the dry spell of the season.

Planting :

The planting work will be undertaken as per norm cost prescribed by the Principal Chief Conservator of Forests & HoFF, Odisha vide his Office Order No. 1109/9F-(Misc.)-387/2021 dated 08.09.2021.

Supervision & monitoring :

The scheme shall be executed by the Divisional Forest Officer, Balasore Wildlife Division with the staff and all the prescribed records shall be maintained. In addition to the internal monitoring by the forest officer 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 the stipulations including those pertaining to Compensatory Afforestation are carried out.

Peoples' Participation :

The forest management includes participation of the complete with a view to Joint Forest Management Module. The JFM Resolution 2011 shall be followed with the participation of the public in raising maintenance & further protection of the plantation stock. In the matter, the nearby village either depending on this forest area or taking part in forest management shall look into this compensatory afforestation. Ultimately, this Compensatory Afforestation may be assigned to the concerned Vana Sangrakhn Samiti (VSS) for further & future maintenance, protection & sustain.

For SUBARNAREKHA PORT PRIVATE LTD.


Authorised Signatory(ies)


Divisional Forest Officer
Balasore (WL) Division
Balasore

Financial outlay for Compensatory Afforestation Scheme over an gross area 26.987 Ha. is two patches (Patch - I = 18.115 Ha. & Patch - II = 8.782 Ha.) & net plantable area 24.423 Ha. of degraded Revenue Forest Land identified in village Nuagansan under Nilgiri Wildlife Range (Nilgiri Tahasil) of Balasore Wildlife Division against 12.206 Ha. of forest land to be diverted for implementation of Railway Connectivity from Amarda Road to Choumukh by M/s Subarnarekha Port Private Limited.

(Wage Rate @ Rs. 333/- per MD)

Sl. No.	Description	Amount (Rs.)
1	Cost for Fencing for Compensatory Afforestation over gross area 26.897 Ha in two patches (Patch-I = 18.115 & Patch-II= 8.782 Ha), raised outside the Forest area using Angle Iron & Chain Link Wire mesh.	1,03,46,376.00
2	Cost for Watering provion to CA Plantation, installing 10HP Solar Pump Set with Bore well fitted with Drip system.	1,62,38,864.00
3	Cost for Compesatory Afforestation (Block Plantation) @ 1600 Plants per Hectare (18moths old seedlings) over 24.423 Ha.	92,35,226.00
4	Cost for creation of Compenatory Afforestation with Stabilization of Soil & Conservation of Moisture over 24.423 ha, of CA land.	12,67,884.00
		3,70,88,350.00
	Grand Total:	3,70,88,350.00 or rounded off to 3,70,89,000

(Rupees Three Crore Seventy Lakh Eighty Nine Thousand) only.


Divisional Forest Officer
Balasore Wildlife Division
Balasore

For SUBARNAREKHA PORT PRIVATE LTD.


Authorised Signatory(ies)

Fencing Model-F-II						
Fencing for Compesatory Plantation over 18.115 Ha.(Patch-I)raised outside the Forest Areas using Angle Iron & Chain Link Wire mesh (250 Rmt./ Ha.)						
WAGE RATE Rs. 333/- PER DAY						
Sl. No.	Item of Work	Perferable Period of Execution	Man Days	Wages	Material Cost (Rs.)	Total Cost (Rs.)
0th Year (PPO)						
1	Earth Work (Excavation of hole) in Hard Soil at a distance 3mt. 0.40 m. x 0.40m. X 0.40m.= 0.064x84=5.376 cum @ Rs. 140/-/ Cum= Rs. 753/-		44.00	14652.00	0.00	14652.00
2	metal 84x0.40m.x0.40m.x0.10m.=1.344@ Rs. 3755/cum.		0.00	0.00	91434.00	91434.00
3	Angle Iron pole of size 50mmx50mmx6mm of height 2.40mt. 84x2.40=201.60Sqmt. @ 4.50/kg./Sqmt.= 907.20 Kg @ Rs. 69.50 per Kg.				1142151.00	1142151.00
4	Cement Concrete (1:2:4) for fixing the Ironangle poleusing 12mm BHG Chips 84 x 0.40m. X 0.40m. X 0.30m. = 4.032 cum @ Rs. 5487.77 cum				400758.00	400758.00
5	Cost of Chain link mess using 4mm Dia GI wire having gap size 50mm x 50mm 250 Rmtx2.10= 525 Sqmt. @ Rs. 331/ Sqmt.= Rs. 1,73,775/-				3147934.00	3147934.00
6	Double cost planting of Iron angle pole over a coat of primer using good quality enamale paint 84x 2.10x 0.20 = 35.28 Sqmt. @ Rs. 108.80/- / Sqmt.				69525.00	69525.00
7	Painting of GI Chain link mess 250 x 2.10x 2 = 1050/10 = 105 Sqmt. @ Rs. 108.80Sqmt.				206946.00	206946.00
8	Transportation of Chain link mess, Iron angles, Straghenning & tieling of chain link mess etc. @ 2% of the total cost.				101468.00	101468.00
	Total		44.00	14652.00	5160216.00	5174868.00
1st Year Maintenance						
1	No Maintenance is required	Sep/Oct	0.00	0.00	0.00	0.00
2nd Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	199265.00	199265.00
3rd Year maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	199265.00	199265.00
4th Year Maintentenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	199265.00	199265.00


Divisional Forest Officer
Balasore (WL) Division
Balasore

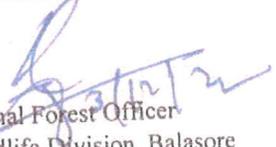
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Authorised Signatory(ies)

5th Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	199265.00	199265.00
6th Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	199265.00	199265.00
7th Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	199265.00	199265.00
8th Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	199265.00	199265.00
9th Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	199265.00	199265.00
10th Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	199265.00	199265.00

Abstract					
Sl. No.	Year	No. Person days	Labour cost @ 333/- per day	Material Cost	Total Cost (Rs.)
		44.00	14652.00	5160216.00	5174868.00
1	0th Year	0.00	0.00	0.00	0.00
2	1st Year	0.00	0.00	199265.00	199265.00
3	2nd Year	0.00	0.00	199265.00	199265.00
4	3rd year	0.00	0.00	199265.00	199265.00
5	4th Year	0.00	0.00	199265.00	199265.00
6	5th Year	0.00	0.00	199265.00	199265.00
7	6th Year	0.00	0.00	199265.00	199265.00
8	7th Year	0.00	0.00	199265.00	199265.00
9	8th Year	0.00	0.00	199265.00	199265.00
10	9th Year	0.00	0.00	199265.00	199265.00
11	10th Year	0.00	0.00	199265.00	199265.00
	Total	44.00	14652.00	6953601.00	6968253.00


 Divisional Forest Officer
 Balasore Wildlife Division, Balasore

For SUBARNAREKHA PORT PRIVATE LTD.


 Authorised Signatory(ies)

Fencing Model-F-II						
Fencing for Compesatory Plantation over 8.782Ha.(Patch-II)raised outside the Forest Areas using Angle Iron & Chain Link Wire mesh (250 Rmt./ Ha.)						
WAGE RATE Rs. 333/- PER DAY						
Sl. No.	Item of Work	Perferable Period of Execution	Man Days	Wages	Material Cost (Rs.)	Total Cost (Rs.)
0th Year (PPO)						
1	Earth Work (Excavation of hole) in Hard Soil at a distance 3mt. 0.40 m. x 0.40m. X 0.40m.= 0.064x84=5.376 cum @ Rs. 140/-/ Cum= Rs. 753/-		21.25	7076.25	0.00	7076.25
2	metal 84x0.40m.x0.40m.x0.10m.=1.344@ Rs. 3755/cum.		0.00	0.00	44326.00	44326.00
3	Angle Iron pole of size 50mmx50mmx6mm of height 2.40mt. 84x2.40=201.60Sqmt. @ 4.50/kg./Sqmt.= 907.20 Kg @ Rs. 69.50 per Kg.				553705.00	553705.00
4	Cement Concrete (1:2:4) for fixing the Ironangle poleusing 12mm BHG Chips 84 x 0.40m. X 0.40m. X 0.30m. = 4.032 cum @ Rs. 5487.77 cum				194284.00	194284.00
5	Cost of Chain link mess using 4mm Dia GI wire having gap size 50mm x 50mm 250 Rmtx2.10= 525 Sqmt. @ Rs. 331/ Sqmt.= Rs. 1,73,775/-				1526092.00	1526092.00
6	Double cost planting of Iron angle pole over a coat of primer using good quality enamale paint 84x 2.10x 0.20 = 35.28 Sqmt. @ Rs. 108.80/- / Sqmt.				33705.00	33705.00
7	Painting of GI Chain link mess 250 x 2.10x 2 = 1050/10 = 105 Sqmt. @ Rs. 108.80Sqmt.				100326.00	100326.00
8	Transportation of Chain link mess, Iron angles, Straghenning & tieling of chain link mess etc. @ 2% of the total cost.				49190.29	49190.29
	Total		21.25	7076.25	2501628.29	2508704.54
1st Year Maintenance						
1	No Maintenance is required	Sep/Oct	0.00	0.00	0.00	0.00
2nd Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	96602.00	96602.00
3rd Year maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	96602.00	96602.00
4th Year Maintentenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	96602.00	96602.00

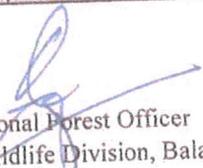
For SUBARNAREKHA PORT PRIVATE LTD.


Divisional Forest Officer
Balasore (WL) Division
Balasore


Authorised Signatory(ies)

5th Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	96602.00	96602.00
6th Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	96602.00	96602.00
7th Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	96602.00	96602.00
8th Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	96602.00	96602.00
9th Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	96602.00	96602.00
10th Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr. 1142 x 1% = 11.42 say Rs. 11/-	Sep/Oct	0.00	0.00	96602.00	96602.00

Abstract					
Sl. No.	Year	No. Person days	Labour cost @ 333/- per day	Material Cost	Total Cost (Rs.)
1	0th Year	21.25	7076.25	2501628.29	2508704.54
2	1st Year	0.00	0.00	0.00	0.00
3	2nd Year	0.00	0.00	96602.00	96602.00
4	3rd year	0.00	0.00	96602.00	96602.00
5	4th Year	0.00	0.00	96602.00	96602.00
6	5th Year	0.00	0.00	96602.00	96602.00
7	6th Year	0.00	0.00	96602.00	96602.00
8	7th Year	0.00	0.00	96602.00	96602.00
9	8th Year	0.00	0.00	96602.00	96602.00
10	9th Year	0.00	0.00	96602.00	96602.00
11	10th Year	0.00	0.00	96602.00	96602.00
	Total	21.25	7076.25	3371046.29	3378122.54

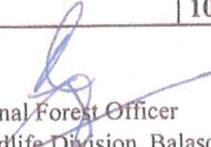

 Divisional Forest Officer
 Balasore Wildlife Division, Balasore

For SUBARNAREKHA PORT PRIVATE LTD.

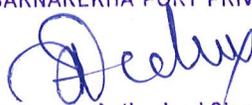

 Authorised Signatory(ies)

Abstract

Area	Total Cost (Rs.)
Patch - I = 18.115 Ha. (Gross area)	6968253.00
Patch - II = 8.782 Ha. (Gross area)	3378122.54
Total Gross area = 26.897 Ha.	10346375.54


Divisional Forest Officer
Balasore Wildlife Division, Balasore

For SUBARNAREKHA PORT PRIVATE LTD.



Authorised Signatory(ies)

Watering Model- W-III					
Watering provision to CA Plantation					
Solar System (one Solar Energy Pump / 24.423 Ha. Plantation in two patches, Wage rate @ 333/-					
Year of Installation (0th Year)					
1	Cost of Borewell				800000.00
2	Installation of Solar panel & other System				1300000.00
3	Cost of 10.0 HP submersable motor with accessories				600000.00
4	Water Storage Tanks / Flexible pipes				900000.00
				Total	3600000.00
Cost of Water per plant (36,00,000/39077) = Rs. 92/-					
Cost of Water per Ha. = Rs. 1,47,200/-					
1st Year Watering					
a.	Cost of Water Rs.92 x 1600 x 24.423 Ha.				0.00
b.	Watering 1600 Plants (Nov. - Mar) @ 200 plants / MD with 7 days rotation 32 MD x 5 months = 160 MD x 333 = Rs. 53,280/-				1305360.00
				Total	1305360.00
2nd Year Watering					
a.	Cost of Water per plant @ 20% of installation year cost 92 x 20% = 18.40 or Rs. 19/- For 1600 plants = Rs. 19 x 1600 plants = Rs. 30,400/-				744800.00
b.	Watering 1600 Plants (Apr. to June & Nov. to Mar.= 8months) @ 200 plants / MD with 7 days rotation 32 MD x 8 months = 256 MD x 333 = Rs. 85,248/-				2088576.00
				Total	2833376.00
3rd Year Watering					
a.	Cost of Water per plant @ 20% of installation year cost 92 x 20% = 18.40 or Rs. 19/- For 1600 plants = Rs. 19 x 1600 plants = Rs. 30,400/-				744800.00
b.	Watering 1600 Plants (Apr. to June & Nov. to Mar.= 8months) @ 200 plants / MD with 7 days rotation 32 MD x 8 months = 256 MD x 333 = Rs. 85,248/-				2088576.00
				Total	2833376.00
4th Year Watering					
a.	Cost of Water per plant @ 20% of installation year cost 92 x 20% = 18.40 or Rs. 19/- For 1600 plants = Rs. 19 x 1600 plants = Rs. 30,400/-				744800.00
b.	Watering 1600 Plants (Apr. to June & Nov. to Mar.= 8months) @ 200 plants / MD with 7 days rotation 32 MD x 8 months = 256 MD x 333 = Rs. 85,248/-				2088576.00
				Total	2833376.00
5th Year Watering					
a.	Cost of Water per plant @ 20% of installation year cost 92 x 20% = 18.40 or Rs. 19/- For 1600 plants = Rs. 19 x 1600 plants = Rs. 30,400/-				744800.00
b.	Watering 1600 Plants (Apr. to June & Nov. to Mar.= 8months) @ 200 plants / MD with 7 days rotation 32 MD x 8 months = 256 MD x 333 = Rs. 85,248/-				2088576.00
				Total	2833376.00
Abstract					
Sl. No.	Year	No. Person days	Labour Cost @ Rs. 333/- per day	Material Cost	Total Cost (Rs.)
1	0th Year	0.00	0.00	3600000.00	3600000.00
2	1st Year	3920.00	1305360.00	0.00	1305360.00
3	2nd Year	6272.00	2088576.00	744800.00	2833376.00
4	3rd Year	6272.00	2088576.00	744800.00	2833376.00
5	4th Year	6272.00	2088576.00	744800.00	2833376.00
6	5th Year	6272.00	2088576.00	744800.00	2833376.00
		Total	29008.00	9659664.00	6579200.00
				6579200.00	16238864.00

Divisional Forest Officer
Balasore Wildlife Division, Balasore

For SUBARNAREKHA PORT PRIVATE LTD.


Authorised Signatory(ies)

Nusery Cost for raising of 50000 (18 months) seedlings								
Wage rate @ Rs.333.00 per MD								
Sl. No.	Item of work	Preferable Period of Ececuttion	Unit	Unit Cost	No./ Qty.	Labour Cost	Material Cost	Total Cost
1	2	3	4	5	6	7	8	9
A. 1st Financial Year (Seedlings Cost for 3 Months)								
1	Cost for Polythene (9"x5'x200G) 300 nos./ Kg.= 3.33 Kg. @ Rs. 208/- per Kg. (including GST)	Nov-Dec	Kg.	208	166.5	0	34632	34632
Procurement of raw & crude Polypot Mixture (Soil, Sand & CDM in ration (2:1:1))								
2	(i) Soil	Nov-Dec	Cft.	10	1100	0	11000	11000
	(ii) Sand	Nov-Dec	Cft.	16	550	0	8800	8800
	(iii) CDM/ Vermi compost/ Bio-Fertilizers etc.	Nov-Dec	Cft.	25	550	0	13750	13750
	(iv) Insecticide / Bio-Pesticide	Nov-Dec	Kg.	150	100	0	15000	15000
3	Preparation of Soil Mixture includes pulverisation, Straining & mixing the ingredients in proper ration. (2:1:1)	Nov-Dec	MD	333	100	33300	0	33300
4	Filling of polythene bags & setting in the bed	Nov-Dec	MD	333	150	49950	0	49950
5	Collection of Seed, Grading & Treatment	Dec.	MD	333	100	33300	0	33300
6	Preparation of germination bed & dibbling of seed.	Jan	MD	333	25	8325	0	8325
7	Pricking out the Seedlings from germination beds & transplanting in the Poly bags and providing	Jan	MD	333	100	33300	25000	58300
8	Watering (Jan to March)	Jan-Mar	MD	333	450	149850	0	149850
9	Maintenance of Nursery including fencing	Jan-Mar	MD	333	200	66600	25000	91600
10	Contingencies (Water can, Buckets, Nursery shed, Electricity charges/ Diesel charges/ maintenance of pump set/ Maintenance of Nursery, etc.)	-	-	0	0	0	23025	23025
Total:		-	-	-	-	374625	156207	530832

For SUBARNAREKHA PORT PRIVATE LTD.


Authorised Signatory(ies)


Divisional Forest Officer
Balasore (W.I.) Division

Sl. No.	Item of work	Preferable Period of Execution	Unit	Unit Cost	No./ Qty.	Labour Cost	Material Cost	Total Cost
1	2	3	4	5	6	7	8	9
B. 2nd Financial Year (Shifting of Seedlings to larger Polythene bag to avoid root coiling & better growth) April- March								
1	Watering for 3 months (April to June)	April- June	MD	333	450	149850	0	149850
2	Cost of Insecticide/ Bio-Pesticide	May-June	Kg/Lt	0	0	0	20000	20000
3	Application of insecticides/ Bio-Pesticide	May-June	MD	333	50	16650	0	16650
4	Cost of Poly pot (12"x10"x300 gauge) 60 nos. = 17 Kg. & Rs. 208 per Kg. (including GST)	May-June	Kg	208	850	0	176800	176800
Procurement of raw & crude Polypot Mixture (Soil, Sand & CDM in ration (2:1:1))								
5	(i) Soil	Apr/May	Cft.	10	5000	0	50000	50000
	(ii) Sand	Apr/May	Cft.	16	2500	0	40000	40000
	(iii) CDM/ Vermi compost/ Bio-Fertilizers etc.	Apr/May	Cft.	25	2500	0	62500	62500
	(iv) Insecticide / Bio-Pesticide	Apr/May	Kg.	150	150	0	22500	22500
6	Preparation of Soil Mixture includes pulverisation, Straining & mixing the ingredients in proper ration. (2:1:1)	Oct-Nov	MD	333	300	99900	0	99900
7	Filling of polythene bags & setting in the bed	Oct-Nov	MD	333	1750	582750	0	582750
8	Collection of Seed, Grading & Treatment	Oct-Mar	MD	333	950	316350	0	316350
9	Preparation of germination bed & dibbling of seed.	April-Mar	MD	333	750	249750	0	249750
10	Contingencies (Water can, Buckets, Nursery shed, Electricity charges/ Disel charges/ maintenance of pump set/ Maintenance of Nursery, etc.)						20000	20000
Total:		-	-	-	-	1415250	391800	1807050

C. 3rd Financial Year (Maintenance upto Planting) April-June

1	Watering for 3 months (April to June)	Apr-June	MD	333	600	199800	0	199800
2	Weeding Shifting and grading	Apr-June	MD	333	200	66600	0	66600
3	Cost of Insecticides/ Bio-Pesticide			333		0	20000	20000
4	Application of Insecticides / Bio-Pesticide		MD	333	50	16650	0	16650
5	Contingencies						11500	11500
Total:		-	-	-	-	283050	31500	314550

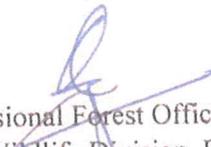
For SUBARNAREKHA PORT PRIVATE LTD.

Divisional Forest Officer
Balasore (W.L) Division

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Authorised Signatory(ies)

ABSTRACT				
	Item of work	Labour Cost	Material Cost	Total Cost
A	1st Financial Year (Seedlings Cost for 3 Months)	374625	156207	530832
B	2nd Financial Year (12 Months)	1415250	391800	1807050
C	3rd Financial Year (3 Months)	283050	31500	314550
Total:		2072925	579507	2652432
Cost per 18 months old Seedlings = Rs.26,52,432.00 / 50,000 = Rs. 53.05/-				

- 1 Priority must be given to the indigenous local species available nearby to the site of plantation.
- 2 10% indigenous fruit bearing trees must be preferred to plantation.


 Divisional Forest Officer
 Balasore Wildlife Division, Balasore

For SUBARNAREKHA PORT PRIVATE LTD.


 Authorised Signatory(ies)

Compensatory Afforestation (Block Plantation) @ 1600 Plants per Hectare (18 months old seedling) Scheme over 24.423 Ha. in village Nuagansan under Nilgiri Tahasil in Lieu of Diversion of 12.206 Ha. of Forest land for Railway Connectivity from Amarda Raod to Choumukh by Subarnarekha Port Pvt. Ltd.

WAGE RATE RS. 333/- PER MANDAY

Sl. No.	Item of Work	Perferable Period of Execution	No. of Mandays	Labour Cost (in Rs.)	Meterial Cost (in Rs.)	Total Cost (in Rs.)
0th Year (Advance Work) Pre-Planting Operation						
1	Survey, Demarcation and Pillar posting	Nov/Dec	49.00	16317.00	0.00	16317.00
2	Preparation of Treatment Map (Digital Map)	Nov/Dec	24.50	8158.50	2450.00	10608.50
3	Site preparation (Cleaning & removal of debris)	Nov/Dec	294.00	97902.00	0.00	97902.00
4	Creation of 4.00mt. Wide Inspection Path	Feb/Mar	24.50	8158.50	0.00	8158.50
5	Alignment and stacking	Feb/Mar	49.00	16317.00	0.00	16317.00
6	Digging of pits (45cm. X 45cm. X 45 cm) in hard and gravelly soil	Feb/Mar	1568.00	522144.00	0.00	522144.00
7	Construction of Temporary Labour Shed, Drinking Water facility and First-Aid etc.	Jan/Mar	0.00	0.00	85750.00	85750.00
	Total		2009.00	668997.00	88200.00	757197.00
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 perfectly.	June/ Jul	294.00	97902.00	196000.00	293902.00
2	Transportation of 18 months old polythene bag seedlings in hired truck/ tractor form the permanent / Mega nursery of planting site including Loading & unloading. (Average lead of 10Rkm) & stacking the seedling @ Rs. 6/- / seedling. (1760 Nos.)	Jul/Aug	0.00	0.00	258720.00	258720.00
3	Watering polypot seedlings at planting site	Jul/Aug	73.50	24475.50	0.00	24475.50
4	Conveyance of polypot seedlings on head load from the stacking site to individual dugout pits within the planting site, applying insectide, fertilizer & planting after scooping the soil with other applied materials and pressing the soil perfectly around the planted seedling.	Jul/Aug	882.00	293706.00	0.00	293706.00
5	Cost of Fertilizer & Insecticide (a) NPK/ Bio-fertilizer @ 50mgs/plant as basal dose = 80kg @ Rs. 30/- per kg = Rs. 2400.00 (b) Urea/ Vermicompost/ Mo Khata / any other fertilizer @ Rs. 1200.00 (c) Insecticide/ Bio-pesticide @ 5gms/plant = 8kg @ Rs. 150/- per kg = Rs. 1200/-.	Jul/Aug	0.00	0.00	117600.00	117600.00
6	Casualty Replacement @ 10% (160 nos.)	Jul/Aug	98.00	32634.00	0.00	32634.00
7	1st Weeding & Manuring	Aug/Sept	367.50	122377.50	0.00	122377.50
8	2nd Weeding, Soil working (1mt. Diameter around the plants) & Manuring	Oct/Nov	490.00	163170.00	0.00	163170.00

Divisional Forest Officer
Balasore (WL) Division

For SUBARNAREKHA PORT PRIVATE LTD.

Authorised Signatory(ies)

9	Fire line tracing (2m. Wide fire line over 400 m long) including maintenance of inspection path	Feb/Mar	73.50	24475.50	0.00	24475.50
10	Watch & Ward including watering as per requirement	Aug - Mar	294.00	97902.00	0.00	97902.00
Total			2572.50	856642.50	572320.00	1428962.50

2nd Year Maintenance

1	Transportation of 160 seedlings from Nursery to plantation site including loading unloading & conveyance by Tractor @ Rs. 6/- per seedling	Jul	0.00	0.00	23520.00	23520.00
2	Casualty replacement - 10%	Jul	98.00	32634.00	0.00	32634.00
3	Cost of Fertilizer & Insecticide A) Cost of Insecticide / Bio-fertilizer (Thement/ Forate0 @ 5gms/plant = 0.8kg @ Rs.150/- per kg = Rs. 120.00 B) Urea/ NPK/ Vermicompost / Mo Khata / any other fertilizer @ Rs. 4486/-	Aug/Sept	0.00	0.00	112847.00	112847.00
4	Weeding (Complete weeding), Manuring & Soil working. (1mt. Diametre around the plants)	Sep/ Oct	490.00	163170.00	0.00	163170.00
5	Fire line tracing (2m. Wide fire line over 400 m. long) & Inspection path	Feb/Mar	73.50	24475.50	0.00	24475.50
6	Watch & Ward including watering as per requirement	Apr / Mar	441.00	146853.00	0.00	146853.00
7	Maintenance of Temporary Labour Shed, Drinking Water facility and First-Aid etc.				24500.00	24500.00
Total			1102.50	367132.50	160867.00	503499.50

3rd Year Maintenance

1	Cost of Fertilizer & Insecticide Urea/ NPK/ Bio Fertilizer/ Vermicompost / Mo Khata / any other fertilizer	Sep/Oct	0.00	0.00	109907.00	109907.00
2	Weeding, Manuring & Soil working. (1mt. Diametre around the plants)	Sep/Oct	490.00	163170.00	0.00	163170.00
3	Fire line tracing (2m. Wide fire line over 400 m. long) & Inspection path	Feb/Mar	73.50	24475.50	0.00	24475.50
4	Watch & Ward including watering as per requirement	Apr / Mar	441.00	146853.00	0.00	146853.00
5	Maintenance of Temporary Labour Shed, Drinking Water facility and First-Aid etc.				24500.00	24500.00
Total			1004.50	334498.50	134407.00	444405.50

4th Year Maintenance

1	Fire line tracing (2m. Wide fire line over 400 m. long) & Inspection path	Feb/Mar	73.50	24475.50	0.00	24475.50
2	Watch & Ward	Apr / Mar	441.00	146853.00	0.00	146853.00
Total			514.50	171328.50	0.00	171328.50

5th Year Maintenance

1	Fire line tracing (2m. Wide fire line over 400 m. long) & Inspection path	Feb/Mar	73.50	24475.50	0.00	24475.50
2	Watch & Ward	Apr / Mar	441.00	146853.00	0.00	146853.00
Total			514.50	171328.50	0.00	171328.50

For SUBARNAREKHA PORT PRIVATE LTD.

[Signature]
Authorised Signatory(ies)

[Signature]
Divisional Forest Officer
Balasore (WL) Division

6th Year Maintenance						
1	Fire line tracing (2m. Wide fire line over 400 m. long) & Inspection path	Feb/Mar	73.50	24475.50	0.00	24475.50
2	Pruning of branches, Singling out of multiple shoots	Jan/Mar	122.50	40792.50	0.00	40792.50
2	Watch & Ward	Apr / Mar	441.00	146853.00	0.00	146853.00
	Total		637.00	212121.00	0.00	212121.00
7th Year Maintenance						
1	Fire line tracing (2m. Wide fire line over 400 m. long) & Inspection path	Feb/Mar	73.50	24475.50	0.00	24475.50
2	Watch & Ward	Apr / Mar	441.00	146853.00	0.00	146853.00
	Total		514.50	171328.50	0.00	171328.50
8th Year Maintenance						
1	Fire line tracing (2m. Wide fire line over 400 m. long) & Inspection path	Feb/Mar	73.50	24475.50	0.00	24475.50
2	Watch & Ward	Apr / Mar	441.00	146853.00	0.00	146853.00
	Total		514.50	171328.50	0.00	171328.50
9th Year Maintenance						
1	Fire line tracing (2m. Wide fire line over 400 m. long) & Inspection path	Feb/Mar	73.50	24475.50	0.00	24475.50
2	Watch & Ward	Apr / Mar	441.00	146853.00	0.00	146853.00
	Total		514.50	171328.50	0.00	171328.50
10th Year Maintenance						
1	Fire line tracing (2m. Wide fire line over 400 m. long) & Inspection path	Feb/Mar	73.50	24475.50	0.00	24475.50
2	Watch & Ward	Apr / Mar	441.00	146853.00	0.00	146853.00
	Total		514.50	171328.50	0.00	171328.50

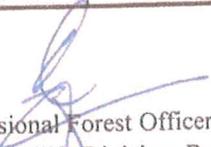
For SUBARNAREKHA PORT PRIVATE LTD.


 Authorised Signatory(ies)


 Divisional Forest Officer
 Balasore (WL) Division
 Balasore

Year wise Abstract of Cost Norm (showing seedling Cost Separately)

Sl. No.	Year	No. Person days	Labour Cost @ Rs. 333/- per day (Rs.)	Material Cost (in RS.)	Cost of Seedlings @ Rs. 53.05 per Seedlings	Monitoring Evaluation Learning Documentation & Other Contingency (5%) of (4+5)	Total Cost	One time cost (2025-26) (Area : 24.5 Ha.)
1	2	3	4	5	6	7	8	9
1	0th Year	2009.00	668997.00	88200.00	0.00	37859.85	795056.85	908264.00
2	1st Year	2572.50	856642.50	572320.00	2287516.00	71448.13	3787926.63	4607788.50
3	2nd Year	1102.50	367132.50	160867.00	207956.00	26399.98	762355.48	973017.50
4	3rd Year	1004.50	334498.50	134407.00	0.00	23445.28	492350.78	660103.50
5	4th Year	514.50	171328.50	0.00	0.00	8566.43	179894.93	248258.50
6	5th Year	514.50	171328.50	0.00	0.00	8566.43	179894.93	260606.50
7	6th Year	637.00	212121.00	0.00	0.00	10606.05	222727.05	338810.50
8	7th Year	514.50	171328.50	0.00	0.00	8566.43	179894.93	287311.50
9	8th Year	514.50	171328.50	0.00	0.00	8566.43	179894.93	301717.50
10	9th Year	514.50	171328.50	0.00	0.00	8566.43	179894.93	316760.50
11	10th Year	514.50	171328.50	0.00	0.00	8566.43	179894.93	332587.50
Total:		10412.50	3467362.50	955794.00	2495472.00	221157.83	7139786.33	9235226.00

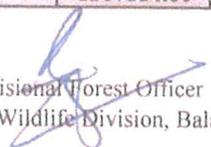

 Divisional Forest Officer
 Balasore Wildlife Division, Balasore

For SUBARNAREKHA PORT PRIVATE LTD.


 Authorised Signatory(ies)

SMC Works Model-C			
Scheme for Creation of Compensatory Afforestation with Stabilization of Soil & Conservation of Moisture over 24.423 ha of CA land(1600 Plants / Ha.)			
WAGE RATE - 333/- PER DAY			
Sl. No.	Item of Works	Perferable Period Execution	Total Cost
0th Year (Pre-Planting Operation)			
1	Nil		0
1st Year			
2	Soil conservation measure structures like Staggered Trench, Percolation pit, Contour trench, Graded earthen bund, LBCD, Wire mesh LBCD, Sub surface Dyke & WHS as per the slopr & site requirement on LS	Apr/Sep	792428.00
2nd Year			
3	Maintenance of SMC structure @ 15% of initial year cost.	Apr/Jul	118864.00
3rd Year			
4	Maintenance of SMC structure @ 15% of initial year cost.	Apr/Jul	118864.00
4th Year			
5	Maintenance of SMC structure @ 15% of initial year cost.	Apr/Jul	118864.00
5th Year			
6	Maintenance of SMC structure @ 15% of initial year cost.	Apr/ Jul	118864.00
Total			1267884.00

Abstract					
Sl. No.	Year	No. Person Days	Labour cost @ Rs. 333/- per day	Material Cost	Total Cost (Rs.)
1	0th Year	0	0	0	0
2	1st Year	0	0	792428.00	792428.00
3	2nd Year	0	0	118864.00	118864.00
4	3rd Year	0	0	118864.00	118864.00
5	4th Year	0	0	118864.00	118864.00
6	5th Year	0	0	118864.00	118864.00
Total		0	0	1267884.00	1267884.00


 Divisional Forest Officer
 Balasore Wildlife Division, Balasore

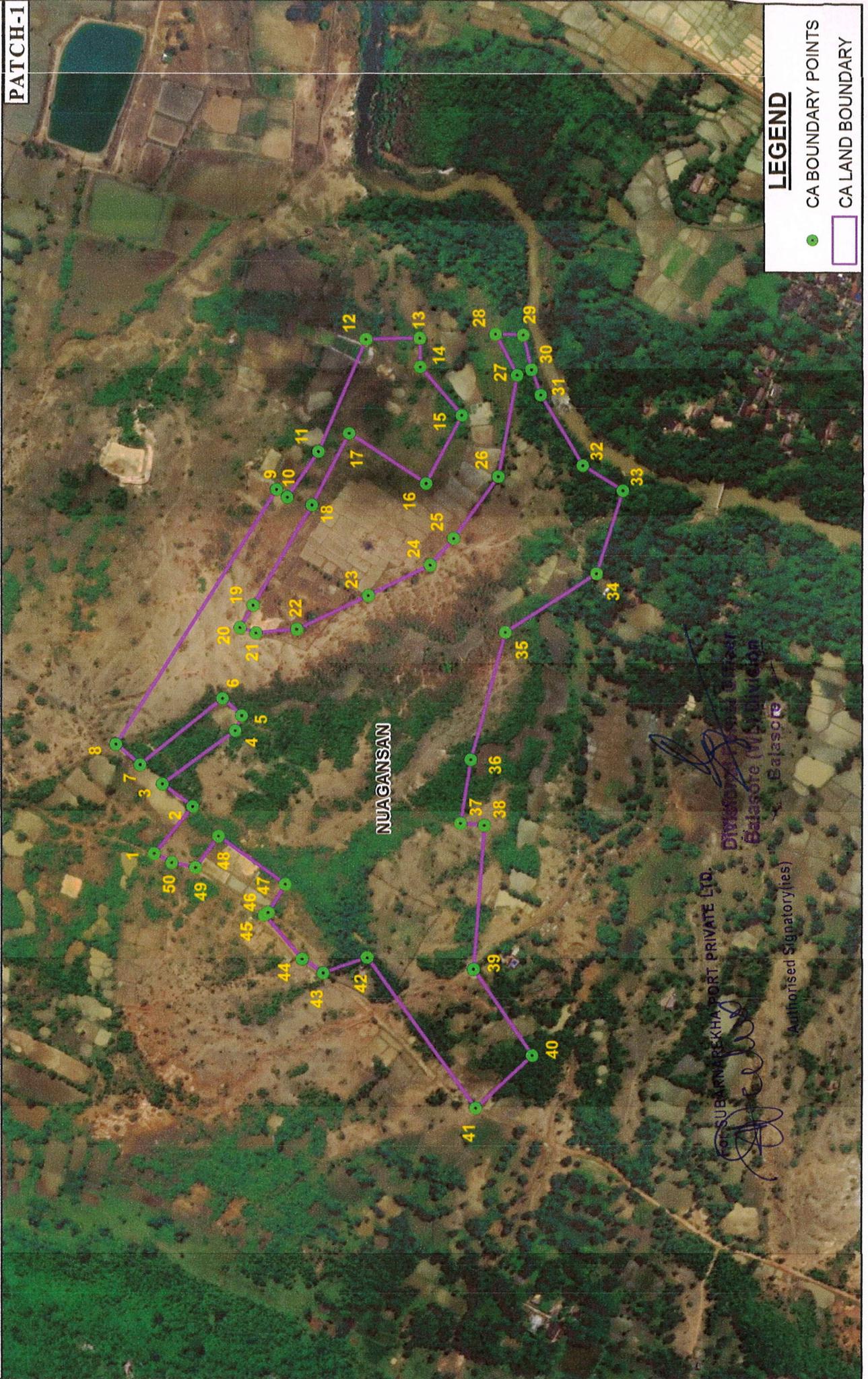
For SUBARNAREKHA PORT PRIVATE LTD.


 Authorised Signatory(ies)

**GOOGLE MAP SHOWING REVENUE FOREST GOVT. LAND
 AT VILLAGE NUAGANSAN IN NILGIRI TAHASIL OF BALASORE DISTRICT FOR
 COMPENSATORY AFForestation AGAINST FOREST DIVERSION OF
 PROPOSED RAILWAY CORRIDOR OF SUBARNAREKHA PORT PROJECT IN BALASORE DISTRICT.**



PATCH-1



LEGEND

- CA BOUNDARY POINTS
- CA LAND BOUNDARY

Subarnarekha Port Private Ltd.
 Divisional Forest Officer
 Balasore (M) Division
 Balasore

Authorised Signatory(ies)

**GOOGLE MAP SHOWING REVENUE FOREST GOVT. LAND
 AT VILLAGE NUAGANSAN IN NILGIRI TAHASIL OF BALASORE DISTRICT FOR
 COMPENSATORY AFForestation AGAINST FOREST DIVERSION OF
 PROPOSED RAILWAY CORRIDOR OF SUBARNAREKHA PORT PROJECT IN BALASORE DISTRICT.**



PATCH-2



For SUBARNAREKHA PORT PRIVATE LTD.

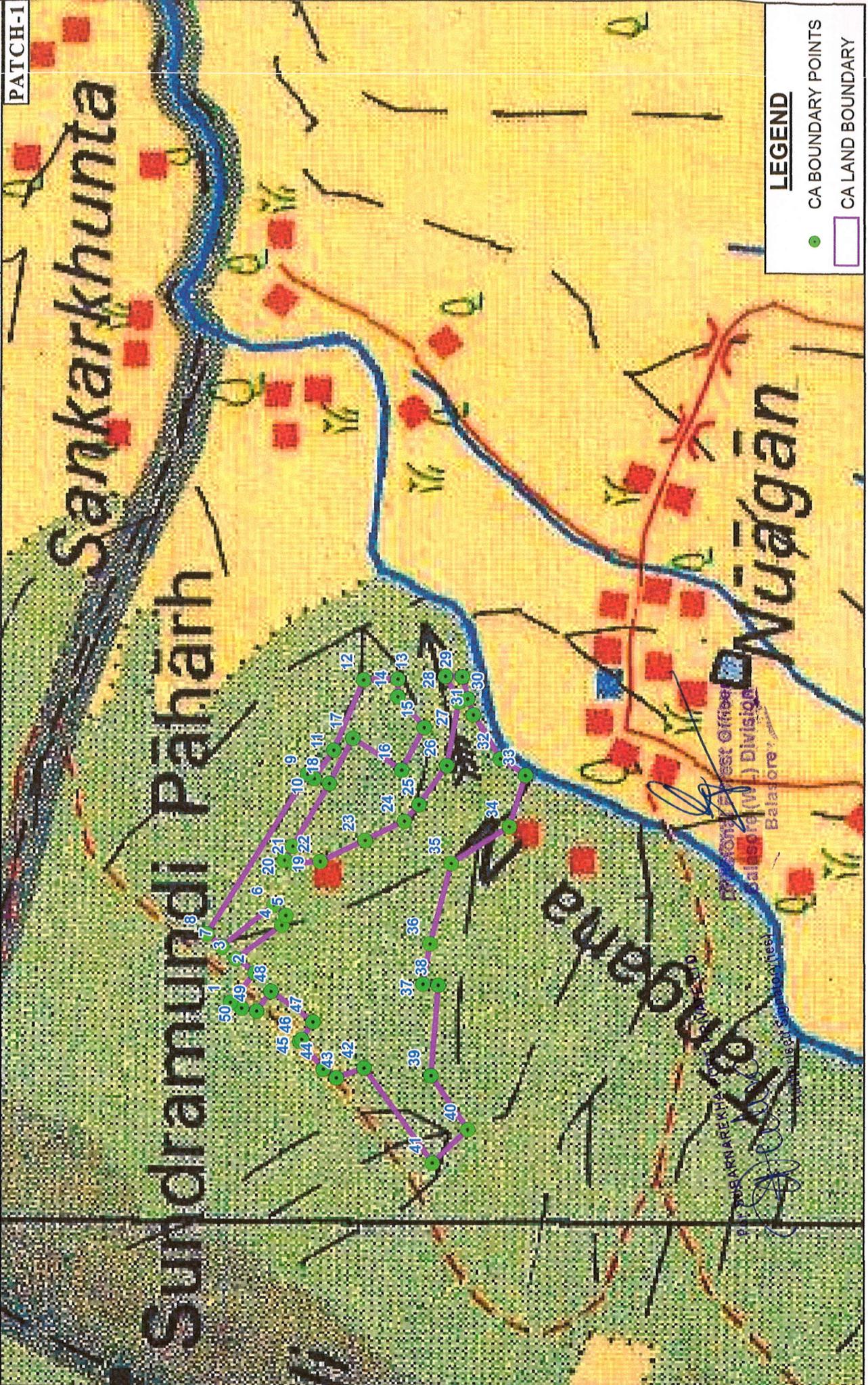
[Handwritten Signature]
 Authorised Signatory(ies)

[Handwritten Signature]
 Director, Forest Officer
 Balasore (W) Division
 Balasore

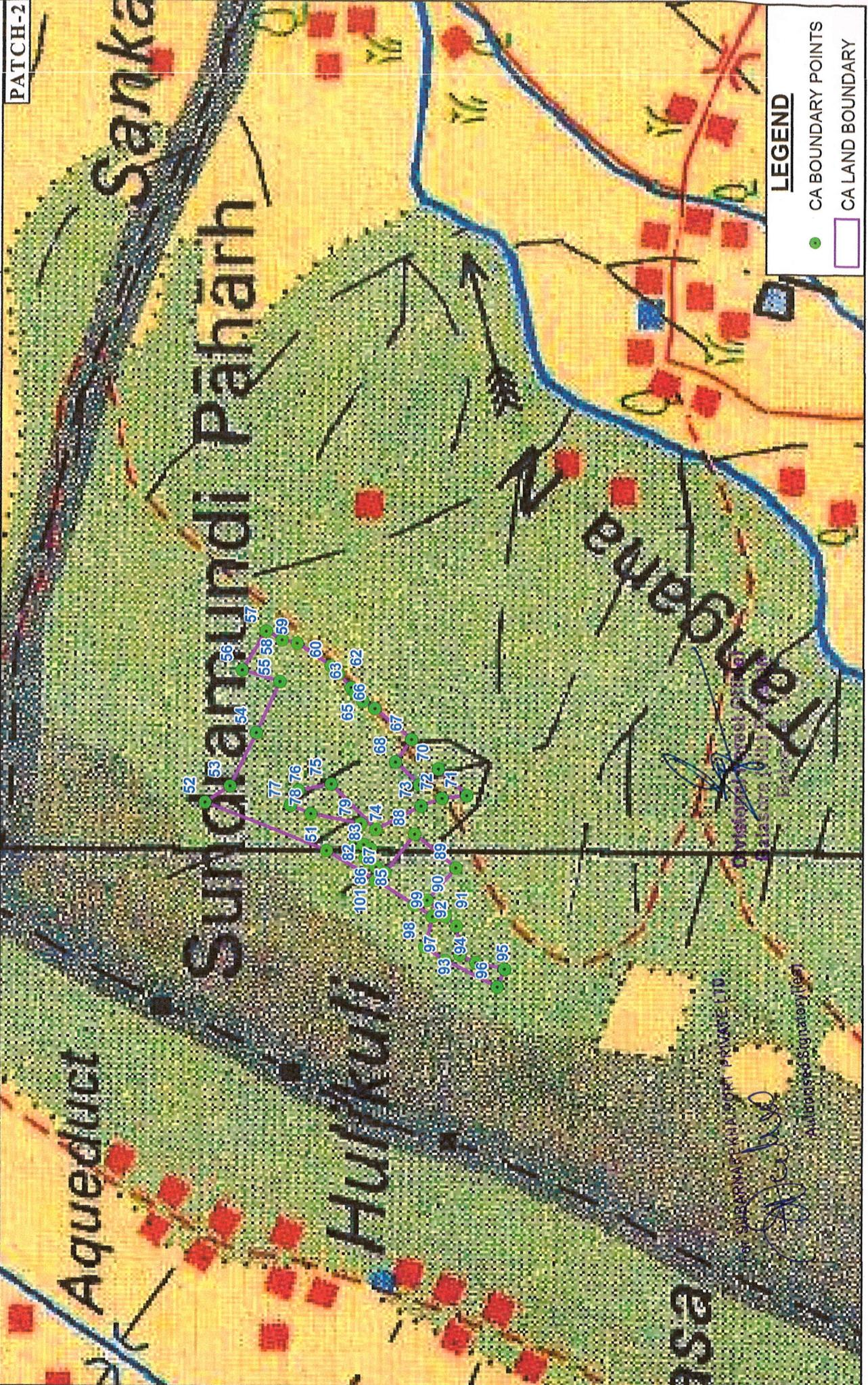
LEGEND

- CA BOUNDARY POINTS
- CA LAND BOUNDARY

**TOPO MAP SHOWING REVENUE FOREST GOVT. LAND
 AT VILLAGE NUAGAN IN NILGIRI TAHASIL OF BALASORE DISTRICT FOR
 COMPENSATORY AFFORESTATION AGAINST FOREST DIVERSION OF
 PROPOSED RAILWAY CORRIDOR OF SUBARNAREKHA PORT PROJECT IN BALASORE DISTRICT.**



**TOPO MAP SHOWING REVENUE FOREST GOVT. LAND
 AT VILLAGE NUAGANSAN IN NILGIRI TAHASIL OF BALASORE DISTRICT FOR
 COMPENSATORY AFForestation AGAINST FOREST DIVERSION OF
 PROPOSED RAILWAY CORRIDOR OF SUBARNAREKHA PORT PROJECT IN BALASORE DISTRICT.**



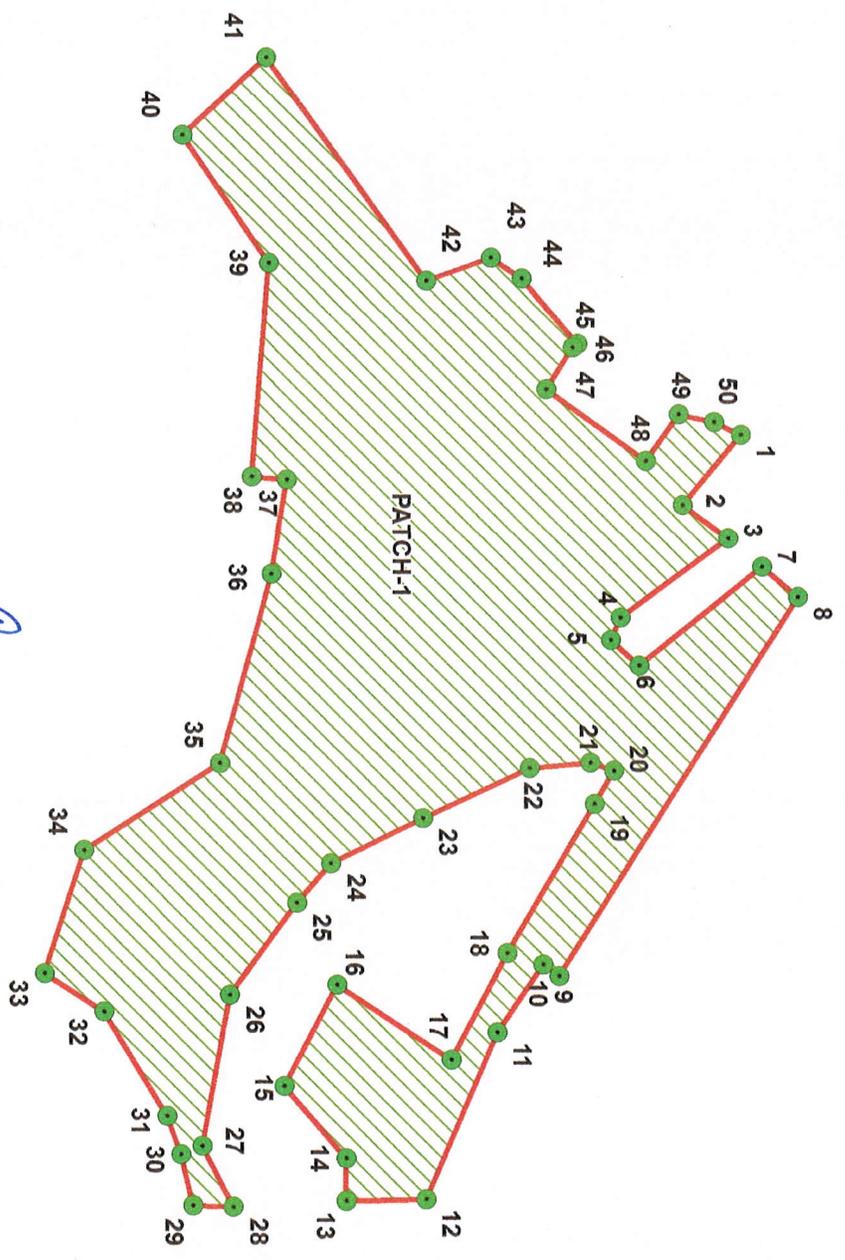
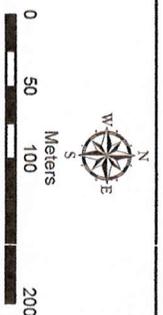
PATCH-2

LEGEND

- CA BOUNDARY POINTS
- CA LAND BOUNDARY

(Signature)
 AUTHORIZED SIGNATORY

**DGPS SURVEYED MAP SHOWING REVENUE FOREST GOVT. LAND
AT VILLAGE NUAGANSAN IN NILGIRI TAHASIL OF BALASORE DISTRICT FOR
COMPENSATORY AFFORESTATION AGAINST FOREST DIVERSION OF
PROPOSED RAILWAY CORRIDOR OF SUBARNAREKHA PORT PROJECT IN BALASORE DISTRICT.**



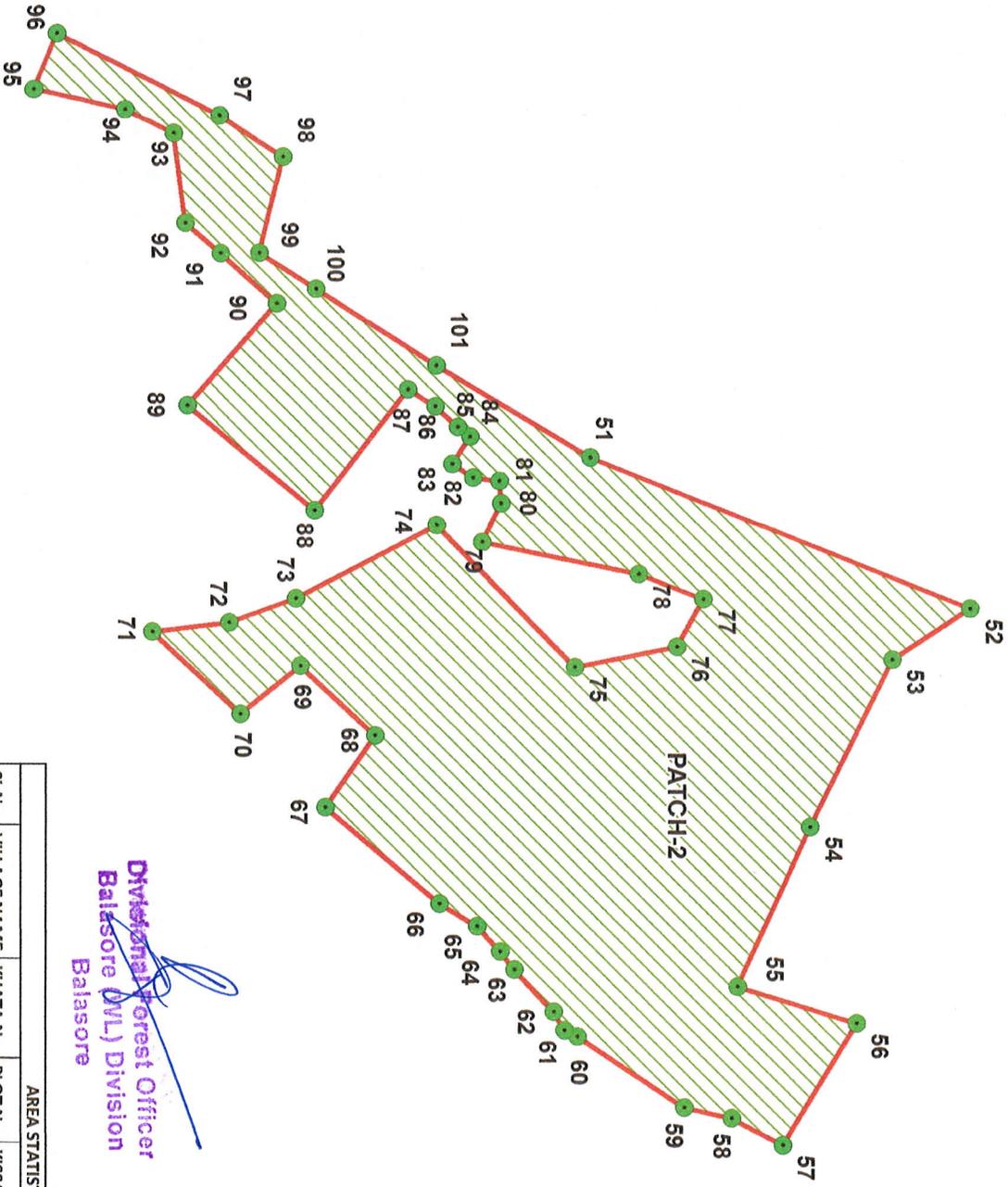
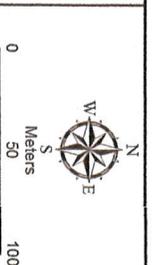
**Divisional Forest Officer
Balasore (W/L) Division
Balasore**

FOR SUBARNAREKHA PORT PRIVATE LTD.
[Signature]
Authorised Signatory (ies)

LEGEND	
	CA LAND BOUNDARY

AREA STATISTICS OF CA LAND								
Sl No.	VILLAGE NAME	KHATA No.	PLOT No.	KISSAM	PATCH	APPLIED AREA IN AC.	APPLIED AREA IN Ha.	MAP AREA IN Ha.
1	NUAGANSAN	396	75(P)	JUNGAL	PATCH-1	60.35	24.423	16.508
2					PATCH-2			8.379
TOTAL						60.35	24.423	24.887

**DGPS SURVEYED MAP SHOWING REVENUE FOREST GOVT. LAND
AT VILLAGE NUAGANSAN IN NILGIRI TAHASIL OF BALASORE DISTRICT FOR
COMPENSATORY AFFORESTATION AGAINST FOREST DIVERSION OF
PROPOSED RAILWAY CORRIDOR OF SUBARNAREKHA PORT PROJECT IN BALASORE DISTRICT.**



[Signature]
Divisional Forest Officer
 Balasore (DVL) Division
 Balasore

[Signature]
 For SUBARNAREKHA PORT PRIVATE LTD.
 Authorised Signatory(ies)

LEGEND
 CA LAND BOUNDARY

AREA STATISTICS OF CA LAND								
Sl No.	VILLAGE NAME	KHATA No.	PLOT No.	KISSAM	PATCH	APPLIED AREA IN Ac.	APPLIED AREA IN Ha.	MAP AREA IN Ha.
1	NUAGANSAN	396	75(P)	JUNGAL	PATCH-1	60.35	24.423	16.508
2					PATCH-2	60.35	24.423	8.379
TOTAL						60.35	24.423	24.887

PATCH-2