



Government of Arunachal Pradesh
DEPARTMENT OF ENVIRONMENT & FORESTS
OFFICE OF THE CHIEF CONSERVATOR OF FORESTS
SOUTHERN ARUNACHAL CIRCLE, DEOMALI

No. SAC/Dev-73/2016/4074-77

Dated Deomali the ~~10th~~ Nov/2016

To,

✓ The CCF (CONS),
 & Nodal Officer (FCA)
 O/O PCCF & Prl.Secy.(Env.& F)
 Govt. of Arunachal Pradesh,
 Itanagar

Sub: - Submission for Diversion proposal in respect of project No.DML-3 Namsang village of Oil India Ltd. Duliajan.

Ref: - DFO Deomali's letter No.DD/IND/09/05/1599-602 dtd. Deomali the 21th Sept/2016.

Sir,

This is to forward herewith the diversion proposal in respect of project No.DML-3 (Namsang village) of Oil India Ltd. Duliajan for Diversion of 3.60 hect. Forest land under Namsang village Deomali Forest Division, Deomali for Oil drilling site (Project No.DML-3) alongwith the following documents in triplicate for your kind information & further necessary action please.

- i) Application of user Agency Oil Duliajan (form-A Annexure-I & II) Annexure-I
- ii) Form part-II dully filled up by the DCF. Annexure-II
- iii) List of trees enumerated with botanical name Annexure-III
- iv) Class wise volume of enumerated trees Annexure-IV
- v) Valuation of enumerated trees Annexure-V
- vi) Valuation of enumerated NTFP Annexure-VI
- vii) Certificate Annexure-VII
- viii) Site inspection Report of DCF Annexure-VIII
- ix) NPV calculation sheet Annexure-IX
- x) Topo Sheet showing Oil drilling site DML-3 Annexure-X
- xi) Topo sheet showing CA plantation plot Annexure-XI
- xii) Sketch map for CA plantation (scale 1:200M) Annexure-XII
- xiii) Detailed estimate for CA plantation Annexure-XIII
- xiv) Part - III dully filled up by the CCF

Encls: - As above.

Yours faithfully,

(R.K. Deori)
 Chief Conservator of Forest
 Southern Arunachal Circle
 Deomali

Copy to:-

- 1) The DFO, Deomali Forest Division, Deomali for information. This has reference to his letter under reference.
- 2) The Head-NEF, Oil India Ltd. Duliajan (Assam) for information.
- 3) The Chief of Namsang village Deomali for information.

(R.K. Deori)
 Chief Conservator of Forest
 Southern Arunachal Circle
 Deomali

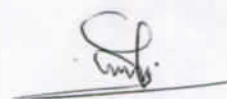
Part – III

(To be filled up the concerned Chief Conservator of Forests)

14. Whether site, where the forest land involved is located has been inspected by the concerned Chief Conservator of Forests (Yes/ No), if yes, the date of inspection & observations made in form of inspection note to be enclosed)	:	No site inspection has been done by CCF as because it is not applicable.
15. Whether the concerned Chief Conservator of Forests agree with the information given in the Part – B and recommendation of Deputy Conservator of Forests?	:	Yes, agree
16. Specific recommendations of concerned Chief Conservator of Forest for acceptance or otherwise of the proposal with detailed reasons	:	This project is for exploration crude oil in the interest of the Nation. Moreover this project will provide employment opportunity to local people. Hence, it is recommended for taking up the project.

Date: - 10/11/2016

Place : - Deomali



(R.K.Deori)
Chief Conservator of Forest
Southern Arunachal Circle
Deomali



FORM-'A'**Form for seeking prior approval under Section -2 of the proposals
by the State Governments and other authorities.****PART-I**(To be filled up by the user agency)**1.0 Project Details:**

- | | | | |
|------|---|---|--|
| i. | Short narrative of the proposal and Project / scheme for which forestland is required | : | Area of 3.60 Hectare of Forestland under Deomali PEL area required for Oil India Limited's drilling location named as 'Loc. DML-3' falling in Namsang Social Forestry Area, Tirap District, Arunachal Pradesh |
| ii. | Map showing the required forestland boundary of adjoining forest on a 1:50, 000 scale map | : | Map in 1:50,000 scale enclosed. |
| iii. | Cost of the Project | : | Rs. 18.00 Crores (approx) |
| iv. | Justification for locating the project in forest area. | : | Oil India Limited is a Public Sector undertaking engaged in exploration, production and transportation of Crude Oil and Natural gas. The drilling location 'DML-3' is selected after extensive Geological studies & interpretation of data obtained through seismic survey, which indicate strong possibilities of presence of hydrocarbon in location. Since the location is scientifically determined based on geoscientific data, it is not possible to change the site |
| v. | Cost benefit analysis (to be enclosed) | : | Not applicable. |
| vi. | Employment likely to be generated | : | Indirect generation of jobs for the local youths during the site preparations as well as drilling phase for peripheral jobs in unskilled category. There is also possibility of jobs being generated and growth of ancillary industries if hydrocarbon is commercially produced. However, the exact number of jobs created in the project cannot be computed. |

- | | | | | | |
|-----|---|---|-------------------|---|--------------|
| 2.0 | Purpose-wise break-up of the total land required. | : | i. Plinth: | : | 2.60 hectare |
| | | | ii. Flare | : | 0.16 hectare |
| | | | iii. Boiler | : | 0.04 hectare |
| | | | iv. Approach Road | : | 0.80 hectare |

 Total : 3.60 hectare

- 3.0 Details of displacement of people due to the project, if any? : Not applicable
- i. Number of families : Not applicable
- ii. Number of Schedule castes / Schedule tribes families : Not applicable
- iii. Rehabilitation plan (to be enclosed) : Not applicable
- 4.0 Whether clearance under Environment (Protection) Act, 1986 required? Yes / No : Yes
- 5.0 Undertaking to bear the cost of raising and maintenances of compensatory afforestation and / or penal compensatory afforestation as well as cost for protection and regeneration of Safety Zone, etc. as per the scheme prepared by the State Government (undertaking to be enclosed) : Undertaking enclosed (Annex. I & II)
1. Net present Value
3.60 hectare @ Rs. 9.39 Lakh/ha
(Rs. 9,39,000 x 3.60) :-
Rs. 33,80,000.00 (approx.)
2. Cost of Compensatory Afforestation
3.60 hectare @ Rs. 38,989.81/ha
(Rs. 38,989.81 x 3.60 x 2) :-
Rs. 2,80,000.00 (approx.)
- Total: Rs. 36,60,000.00 (approx.)
- 6.0 Details of certificates / documents enclosed as required under the instruction : i. Map as in Sl. No. 1.0 (ii) above.
ii. Undertaking vide Annex. I & II as in Sl. No. 5.0 above.

Rehul Dasgupta 25/10/2013

(Dr. R. Dasgupta)

GENERAL MANAGER-NEF

OIL INDIA LTD, DULIAJAN-786602

Date : 25.10.2013
Place : DULIAJAN

State serial No. of proposal.....
(To be filled up by the Nodal officer with date of receipt)

TO WHOM IT MAY CONCERN

We do hereby undertake to bear the cost of raising and maintenance of compensatory afforestation and /or penal compensatory afforestation as well as cost for protection and re-generation of Safety Zone, etc. as per the scheme prepared by the State Government for diversion of 3.60 hectare of Forestland for Oil India Limited's drilling location named as Loc. DML-3 in Namsang Social Forestry Area, Tirap District, Arunachal Pradesh.

Rahul Dasgupta

(Dr. R. Dasgupta)
GENERAL MANAGER -NEF
OIL INDIA LIMITED, DULIAJAN

Date: 25.10.2013
Place: DULIAJAN

TO WHOM IT MAY CONCERN

We do hereby undertake the following -

- (i) To bear the cost of raising & maintenance of Compensatory Afforestation (CA) plantation for double the area of land proposed for diversion for Loc. DML-3.
- (ii) Payment of Net Present Value (NPV).

Rahul Dasgupta

Date: 25.10.2013
Place: DULIAJAN

(Dr. R. Dasgupta)
GENERAL MANAGER -NEF
OIL INDIA LIMITED, DULIAJAN

PART II

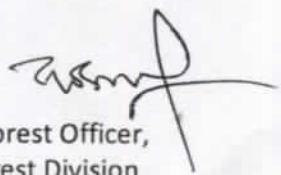
(To be filled by the concerned Deputy Conservator of Forests)

State serial no of proposal.....

7. Location of the project/ Scheme : Namsang Village, DML -3 by Oil India Ltd. Duliajan (Assam).
- (i) State /Union Territory : Arunachal Pradesh
- (ii) District : Tirap
- (iii) Forest Division : Deomali Forest Division, Deomali.
- (iv) Area of forest land proposed for diversion (in Ha.) : 3.60 Ha.
- (v) Legal status of forest : USF
- (vi) Density of vegetation : Eco- Class I (Dense Forest)
- (vii) Species-wise (Scientific names) and diameter class-wise enumeration of trees(to be enclosed. In case of irrigation / Hydel Project's enumeration at FRL, FRL2 meter & FRL -4 meter are to be enclosed). : Enclosed at Annexure -
- (viii) Brief note on vulnerability of the forest area to erosion. : Diversion proposal is being sought for oil drilling purposes, so there is negligible chance of erosion.
- (ix) Approximate distance of proposal site for diversion from boundary of forest. : Proposed site is well inside Namsang USF.
- (x) Whether forms part of National Park, Wildlife Sanctuary, Biosphere Reserve, Tiger Reserve, Elephant Corridor, etc. (if so, the details of the area and comments of the Chief Wildlife Warden to be annexed) : It falls under Namsang USF and does not constitute any National Park, Wildlife Sanctuary, Tiger Reserve and Protected Forest.
- (xi) Whether any rare/endangered /unique species of flora and fauna found in the area, if so, details of corridor thereof. : No.
- (xii) Whether any protected archaeological / heritage Site/ defence establishment or any other important monument is located in the area. If so, the details thereof with NOC from competent authority, if required. : No.
8. Whether the requirement of forest land as proposed by the user Agency in col-2 of Part-I is unavoidable and barest minimum for the project. If no, recommended area item-wise with details of alternatives examined. : Yes, it is unavoidable and barest minimum requirement for oil drilling.
9. Whether any work in violation of the Act has been Carried out (Yes/ No) . If yes, details of the same Including period of work done, action taken on Erring officials. Whether work in violation is still in Progress. : No.

10. Details of compensatory afforestation scheme : Enclosed at Annexure -
- (i) Details of non-forest area/degraded forest area Identified for compensatory afforestation, its patches, size of each patch site. : Total area of 7.2 Hectare identified in degraded forest of Namsang VRF.
 - (ii) Map showing non-forest / degraded forest area identified for compensatory afforestation and adjoining forest boundaries. : Map showing area of proposed CA plantation (Scale 1:200) is enclosed at Annexure-
 - (iii) Detailed compensatory afforestation scheme i/c species to be planted, implementing Agency, time schedule, cost structure etc. : Detailed estimate along with time schedule is enclosed at Annexure-
 - (iv) Total financial outlay for compensatory afforestation scheme : ₹17,84,159/-
 - (v) Certificates from competent authority regarding Suitability of area identified for compensatory afforestation and from management point of view (To be signed by the concerned Deputy Conservator of Forests) : Certificate enclosed at Annexure -
11. Site inspection report of the DCF (to be enclosed) especially highlighting facts asked in col 7 (xi, xii) 8 and 9 above. : Site Inspection Report of DCF enclosed at Annexure-
12. Division/District Profile : 2362 Sq.km
- (i) Geographical area of the Division : 447 Sq.km
 - (ii) Forest area of the district :
 - (iii) Total forest area diverted since 1980 with number cases. : 25.22 Ha- 1 (one) case only against 220 KV Power Station of Power Grid Corporation
 - (iv) Total compensatory afforestation stipulated in the district / division since 1980 on :
 - (a) Forest land including penal compensatory afforestation : Nil
 - (b) Non forest land : 25.22 Ha.
 - (v) Progress of compensatory afforestation as on date :
 - (a) Forest Land :
 - (b) Non-forest land. : 25.22 Ha.
13. Specific recommendation of the DCF for acceptance Or otherwise of the proposal with reasons. : The diversion of forest area is sought for oil drilling. If oil is available then it would generate revenue for the state as well as benefit the country besides fulfilling the global demand of oil & petroleum products.

Date :: 15-9-16
Place :: Deomali

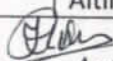
Signature 
Divisional Forest Officer,
Deomali Forest Division,
PO Deomali, Distt. Tirap (Arunachal Pradesh)

Annexure - III

TREE ENUMERATION CHART AT NAMSANG AREA ON 19-01-2016 DML-3

Sl. No.	Species Names		Girth	Sl. No.	Species Names		Girth
	Local	Botanical			Local	Botanical	
1.	Dimoru	Ficus SPP	0.95 mtr.	51.	Madar	F class	1.70 mtr.
2.	Udal	Stereulia villosa	0.95 mtr.	52.	Satiana	Alstonia scholaris	1.70 mtr.
3.	Mora Sal	F class	0.95 mtr.	53.	B/Dima	Dysokylum birtectori ferlem	0.95 mtr.
4.	Hingori	Castanspsis indica	0.95 mtr.	54.	Parali	Stereospermum chelonoides	1.80 mtr.
5.	Dhuna	Canariem species.	1.80 mtr.	55.	Parali	Stereospermum chelonoides	1.40 mtr.
6.	Lali	Amoora wallichii	1.80 mtr.	56.	Dimoru	Ficus SPP	0.95 mtr.
7.	Dhuna	Canariem species.	1.60 mtr.	57.	F/Gamari	F class	1.50 mtr.
8.	Hilika	Terminalia chebula	1.10 mtr.	58.	Khokan	Duabanga grandi flora	1.80 mtr.
9.	B/Dima	Dysokylum birtectori ferlem	0.95 mtr.	59.	Dimoru	Ficus SPP	1.30 mtr.
10.	Lali	Amoora wallichii	0.95 mtr.	60.	Mora sal	F class	1.90 mtr.
11.	Jutuli	Altingia excels	2.00 Mtr.	61.	Hingori	Castanspsis indica	1.60 mtr.
12.	Selleng	Sapinum bacciatyum	2.10 mtr.	62.	Bohera	Terminalia balarica	1.80 mtr.
13.	Dewachali	Artocarpus lakppcha	0.95 mtr.	63.	F/Sopa	F class	0.95 mtr.
14.	Sam	Artocarpus chaplasha	1.80 mtr.	64.	Lopsi	F class	1.20 mtr.
15.	Hingori	Castanspsis indica	0.95 mtr.	65.	Jati Poma	Chukrassia tabularis	1.10 mtr.
16.	Hollock	Terminalia myriocarpa	1.10 mtr.	66.	Gousorai	Cinnamomum ...	1.80 mtr.
17.	Mekai	Shorea assamica	2.00 mtr.	67.	Madar	F class	1.10 mtr.
18.	Selleng	Sapinum bacciatyum	3.00 mtr.	68.	Bon Jalukia	Beilshiadia assamica	2.00 mtr.
19.	Mora Sal	F class	1.05 mtr.	69.	Dhuna	Canariem species.	0.95 mtr.
20.	Dhuna	Canariem species.	1.00 mtr.	70.	Poring	F class	0.95 mtr.
21.	Khokan	Duabanga grandi flora	3.00 mtr.	71.	Kadam	Anth ocephalus cadamba	1.60 mtr.
22.	Mora Sal	F class	1.50 mtr.	72.	Dhuna	Canariem species.	1.30 mtr.
23.	B/Dima	Dysokylum birtectori ferlem	0.95 mtr.	73.	Mekai	Shorea assamica	2.40 mtr.
24.	Bohera	Terminalia balarica	1.70 mtr.	74.	Hollong	Dipterocarpus marcopus	1.60 mtr.
25.	Madar	F class	2.50 mtr.	75.	Hollong	Dipterocarpus marcopus	1.70 mtr.
26.	Bon Bogori	Pterospermum lancifolium	0.95 mtr.	76.	Udal	Stereulia villosa	1.30 mtr.
27.	Mora Sal	F class	1.00 mtr.	77.	Dimoru	Ficus SPP	1.60 mtr.
28.	Ram Tambul	F class	1.00 mtr.	78.	Dimoru	Ficus SPP	1.30 mtr.
29.	Selleng	Sapinum bacciatyum	2.00 mtr.	79.	Hati Pohela	Pterospermum accrifolim	1.30 mtr.
30.	Mora sal	F class	0.95 mtr.	80.	Hollong	Dipterocarpus marcopus	1.80 mtr.
31.	B/Dima	Dysokylum birtectori ferlem	0.95 mtr.	81.	Barpat	Ailanthus grandis	2.00 mtr.
32.	Bon Lichu	F class	0.95 mtr.	82.	Lopsi	F class	0.95 mtr.
33.	Bohera	Terminalia balarica	0.95 mtr.	83.	Hollong	Dipterocarpus marcopus	1.70 mtr.
34.	Bohera	Terminalia balarica	0.95 mtr.	84.	Hollong	Dipterocarpus marcopus	1.85 mtr.
35.	Dhuna	Canariem species.	1.30 mtr.	85.	Barpat	Ailanthus grandis	2.00 mtr.
36.	Bohera	Terminalia balarica	0.95 mtr.	86.	Khokan	Duabanga grandi flora	170 mtr.
37.	Mora sal	F class	0.95 mtr.	87.	Dhuna	Canariem species.	0.95 mtr.
38.	Poring	F class	0.95 mtr.	88.	Dimoru	Ficus SPP	1.50 mtr.
39.	Khokan	Duabanga grandi flora	2.80 mtr.	89.	D/Chali	Artocarpus lakppcha	1.70 mtr.
40.	Hollock	Terminalia myriocarpa	2.70 mtr.	90.	Barpat	Ailanthus grandis	1.20 mtr.
41.	Siris	Albizzia lebbek	1.50 mtr.	91.	Dhuna	Canariem species.	0.95 mtr.
42.	Mora sal	F class	1.00 mtr.	92.	G/Sopa	Nyssa sessiliflora	2.00 mtr.
43.	Hollock	Terminalia myriocarpa	0.95 mtr.	93.	Lali	Amoora wallichii	2.70 mtr.
44.	Hollock	Terminalia myriocarpa	0.95 mtr.	94.	Dhuna	Canariem species.	1.30 mtr.
45.	Jia Poma	Eugenia grandia	1.50 mtr.	95.	Gamari	Gmeline arborea	0.95 mtr.
46.	Amari	Amoora wallichii	1.10 mtr.	96.	Gamari	Gmeline arborea	0.95 mtr.
47.	Dimoru	Ficus SPP	1.50 mtr.	97.	Gamari	Gmeline arborea	1.90 mtr.
48.	Udal	Stereulia villosa	0.95 mtr.	98.	Hollong	Dipterocarpus marcopus	1.10 mtr.
49.	Jia Poma	Eugenia grandia	2.00 mtr.	99.	Hollong	Dipterocarpus marcopus	1.10 mtr.
50.	Madar	F class	1.70 mtr.	100.	Sopa	Magnolia species	1.30 mtr.

Sl. No.	Species Name		Girth	Sl. No.	Species Names		Girth
	Local	Botanical			Local	Botanical	
101.	Sopa	Magnolia species	1.45 mtr.	152.	Mora sal	F class	0.95 mtr.
102.	Hollong	Dipterocarpus marcopus	2.10 mtr.	153.	Pichola	Kydia calycina	0.95 mtr.
103.	Hollong	Dipterocarpus marcopus	1.80 mtr.	154.	Hollong	Dipterocarpus marcopus	2.50 mtr.
104.	Hilika	Terminalia chebula	2.70 mtr.	155.	Khokan	Duabanga grandi flora	2.50 mtr.
105.	Sam	Artocarpus chaplasha	3.00 mtr.	156.	Khokan	Duabanga grandi flora	2.00 mtr.
106.	Gamari	Gmelina arborea	2.10 mtr.	157.	Hollong	Dipterocarpus marcopus	2.00 mtr.
107.	Hollong	Dipterocarpus marcopus	1.65 mtr.	158.	Lali	Amoora wallichii	2.30 mtr.
108.	Sopa	Magnolia species	1.50 mtr.	159.	Selleng	Sapinum bacciatum	2.00 mtr.
109.	Gamari	Gmelina arborea	1.80 mtr.	160.	Parali	Stereospermum chelonoides	2.55 mtr.
110.	Bhelu	Tetra meles nudiflora	2.80 mtr.	161.	Dimoru	Ficus SPP	2.95 mtr.
111.	Bon Jalukia	Beilshadia assamica	1.40 mtr.	162.	Hilika	Terminalia chebula	2.30 mtr.
112.	Lopsi	F class	0.95 mtr.	163.	Hollong	Dipterocarpus marcopus	1.95 mtr.
113.	Lopsi	F class	0.95 mtr.	164.	Hollong	Dipterocarpus marcopus	1.60 mtr.
114.	Barpat	Ailanthus grandis	1.20 mtr.	165.	Hollong	Dipterocarpus marcopus	1.80 mtr.
115.	Sam	Artocarpus chaplasha	1.20 mtr.	166.	Hollong	Dipterocarpus marcopus	1.60 mtr.
116.	Gousorai	Cinnamomum ...	0.90 mtr.	167.	Lopsi	F class	0.95 mtr.
117.	Hollong	Dipterocarpus marcopus	1.90 mtr.	168.	Mekai	Shorea assamica	2.00 mtr.
118.	Mekai	Shorea assamica	1.90 mtr.	169.	Bohera	Terminalia balarica	3.00 mtr.
119.	Mekai	Shorea assamica	2.10 mtr.	170.	Mora sal	F class	0.95 mtr.
120.	Jutuli	Altingia excels	1.80 mtr.	171.	Mekai	Shorea assamica	1.20 mtr.
121.	S/Nahar	Kayea assamica	1.00 mtr.	172.	Mora sal	F class	0.95 mtr.
122.	S/Nahar	Kayea assamica	1.10 mtr.	173.	Sam	Artocarpus chaplasha	1.90 mtr.
123.	S/Nahar	Kayea assamica	0.96 mtr.	174.	Khokan	Duabanga grandi flora	3.00 mtr.
124.	Hilika	Terminalia chebula	1.10 mtr.	175.	Karri	F class	1.30 mtr.
125.	Hilika	Terminalia chebula	1.20 mtr.	176.	Jutuli	Altingia excels	2.40 mtr.
126.	Sam	Artocarpus chaplasha	1.80 mtr.	177.	Mekai	Shorea assamica	2.00 mtr.
127.	Sam	Artocarpus chaplasha	1.40 mtr.	178.	Mora sal	F class	1.30 mtr.
128.	Barpat	Ailanthus grandis	1.50 mtr.	179.	Mora sal	F class	1.10 mtr.
129.	Hollong	Dipterocarpus marcopus	1.20 mtr.	180.	Hollong	Dipterocarpus marcopus	0.95 mtr.
130.	Hollong	Dipterocarpus marcopus	1.30 mtr.	181.	Dimoru	Ficus SPP	2.00 mtr.
131.	Mekai	Shorea assamica	1.50 mtr.	182.	Siris	Albizia lebbek	2.35 mtr.
132.	Mekai	Shorea assamica	1.40 mtr.	183.	Barpat	Ailanthus grandis	1.20 mtr.
133.	Dhuna	Canarium species.	1.30 mtr.	184.	Jutuli	Altingia excels	1.10 mtr.
134.	Jutuli	Altingia excels	1.30 mtr.	185.	Dhuna	Canarium species.	1.50 mtr.
135.	Mekai	Shorea assamica	1.60 mtr.	186.	Dhuna	Canarium species.	1.60 mtr.
136.	Udal	Stereulia villosa	1.70 mtr.	187.	Dimoru	Ficus SPP	1.80 mtr.
137.	Jati Poma	Chukrassia tabularis	1.80 mtr.	188.	Mekai	Shorea assamica	2.10 mtr.
138.	Selleng	Sapinum bacciatum	1.90 mtr.	189.	Sam	Artocarpus chaplasha	2.00 mtr.
139.	Khokan	Duabanga grandi flora	1.30 mtr.	190.	Mekai	Shorea assamica	1.90 mtr.
140.	Khokan	Duabanga grandi flora	1.45 mtr.	191.	Bohera	Terminalia balarica	1.80 mtr.
141.	Kadam	Anth ocephalus cadamba	1.95 mtr.	192.	Bohera	Terminalia balarica	1.70 mtr.
142.	Lopsi	F class	1.10 mtr.	193.	S/Nahar	Kayea assamica	0.95 mtr.
143.	Pichola	Kydia calycina	0.95 mtr.	194.	S/Nahar	Kayea assamica	1.10 mtr.
144.	Udal	Stereulia villosa	0.95 mtr.	195.	Siris	Albizia lebbek	1.20 mtr.
145.	S/Nahar	Kayea assamica	0.95 mtr.	196.	Kadam	Anth ocephalus cadamba	1.25 mtr.
146.	Pichola	Kydia calycina	1.30 mtr.	197.	Hollock	Terminalia myriocarpa	1.80 mtr.
147.	Mora sal	F class	1.30 mtr.	198.	Khokan	Duabanga grandi flora	1.40 mtr.
148.	Hollong	Dipterocarpus marcopus	2.50 mtr.	199.	Khokan	Duabanga grandi flora	1.50 mtr.
149.	Lali	Amoora wallichii	2.45 mtr.	200.	Barpat	Ailanthus grandis	1.60 mtr.
150.	Hati pohela	Pterospermum accrifolium	1.50 mtr.	201.	Hollock	Terminalia myriocarpa	1.50 mtr.
151.	Jutuli	Altingia excels	1.10 mtr.				


 T. Raghav
 Deputy Forest Officer

Sl. No.	Species	Girth	Sl. No.	Species	Girth
101.	Sopa	1.45 mtr.	152.	Mara sal	0.95 mtr.
102.	Hollong	2.10 mtr.	153.	Pichula	0.95 mtr.
103.	Hollong	1.80 mtr.	154.	Hollong	2.50 mtr.
104.	Hilika	2.70 mtr.	155.	Khokon	2.50 mtr.
105.	Sam	3.00 mtr.	156.	Khokan	2.00 mtr.
106.	Gamari	2.10 mtr.	157.	Hollong	2.00 mtr.
107.	Hollong	1.65 mtr.	158.	Lali	2.30 mtr.
108.	Sopa	1.50 mtr.	159.	Selleng	2.00 mtr.
109.	Gamari	1.80 mtr.	160.	Paroli	2.55 mtr.
110.	Bhelu	2.80 mtr.	161.	Dimoru	2.95 mtr.
111.	Bon Jalukia	1.40 mtr.	162.	Hilika	2.30 mtr.
112.	Lopsi	0.95 mtr.	163.	Hollong	1.95 mtr.
113.	Lopsi	0.95 mtr.	164.	Hollong	1.60 mtr.
114.	Barpat	1.20 mtr.	165.	Hollong	1.80 mtr.
115.	Sam	1.20 mtr.	166.	Hollong	1.60 mtr.
116.	Gousorar	0.90 mtr.	167.	Lopsi	0.95 mtr.
117.	Hollong	1.90 mtr.	168.	Mekai	2.00 mtr.
118.	Makai	1.90 mtr.	169.	Bohera	3.00 mtr.
119.	Makai	2.10 mtr.	170.	Mora sal	0.95 mtr.
120.	Jutuli	1.80 mtr.	171.	Mekai	1.20 mtr.
121.	S/Nahar	1.00 mtr.	172.	Mora sal	0.95 mtr.
122.	S/Nahar	1.10 mtr.	173.	Sam	1.90 mtr.
123.	S/Nahar	0.96 mtr.	174.	Khokan	3.00 mtr.
124.	Hilika	1.10 mtr.	175.	Karri	1.30 mtr.
125.	Hilika	1.20 mtr.	176.	Jutuli	2.40 mtr.
126.	Sam	1.80 mtr.	177.	Mekai	2.00 mtr.
127.	Sam	1.40 mtr.	178.	Mara sal	1.30 mtr.
128.	Barpath	1.50 mtr.	179.	Mora sal	1.10 mtr.
129.	Hollong	1.20 mtr.	180.	Hollong	0.95 mtr.
130.	Hollong	1.30 mtr.	181.	Dimoru	2.00 mtr.
131.	Makai	1.50 mtr.	182.	Siris	2.35 mtr.
132.	Makai	1.40 mtr.	183.	Borpat	1.20 mtr.
133.	Dhuna	1.30 mtr.	184.	Jutuli	1.10 mtr.
134.	Jutuli	1.30 mtr.	185.	Dhuna	1.50 mtr.
135.	Makai	1.60 mtr.	186.	Dhuna	1.60 mtr.
136.	Udal	1.70 mtr.	187.	Dimoru	1.80 mtr.
137.	Jati Poma	1.80 mtr.	188.	Mekai	2.10 mtr.
138.	Selleng	1.90 mtr.	189.	Sam	2.00 mtr.
139.	Khokan	1.30 mtr.	190.	Mekai	1.90 mtr.
140.	Khokan	1.45 mtr.	191.	Bohera	1.80 mtr.
141.	Kadam	1.95 mtr.	192.	Bohera	1.70 mtr.
142.	Lopsi	1.10 mtr.	193.	S/Nahar	0.95 mtr.
143.	Pichola	0.95 mtr.	194.	S/Nahar	1.10 mtr.
144.	Udal	0.95 mtr.	195.	Siris	1.20 mtr.
145.	S/Nahar	0.95 mtr.	196.	Kadam	1.25 mtr.
146.	Pichola	1.30 mtr.	197.	Hollock	1.80 mtr.
147.	Mora sal	1.30 mtr.	198.	Khokan	1.40 mtr.
148.	Hollong	2.50 mtr.	199.	Khokan	1.50 mtr.
149.	Lali	2.45 mtr.	200.	Borpat	1.60 mtr.
150.	Hati pohela	1.50 mtr.	201.	Hollock	1.50 mtr.
151.	Jutuli	1.10 mtr.			

(T. Raghunath)

Sr. FO (B)
at Idukki add
19.04.16

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Divisional Forest Officer
Deemed Forest Division
Mall. Dist. Tirup (A.P.)

TREE ENUMERATION CHART AT NAMSANG AREA ON 19-01-2016

Sl. No.	Species	Girth	Sl. No.	Species	Girth
1	Dimaru	0.95 mtr.	51.	Madar	1.70 mtr.
2	Udal	0.95 mtr.	52.	Satiana	1.70 mtr.
3	Mara Sal	0.95 mtr.	53.	B/Dima	0.95 mtr.
4	Hingori	0.95 mtr.	54.	Paroli	1.80 mtr.
5	Dhuna	1.80 mtr.	55.	Paroli	1.40 mtr.
6	Lali	1.80 mtr.	56.	Dimoru	0.95 mtr.
7	Dhuna	1.60 mtr.	57.	F/Gamari	1.50 mtr.
8	Hilika	1.10 mtr.	58.	Khokan	1.80 mtr.
9.	B/Dima	0.95 mtr.	59.	Dimoru	1.30 mtr.
10.	Lai	0.95 mtr.	60.	Mara sal	1.90 mtr.
11.	Jutuli	2.00 Mtr.	61.	Hingori	1.60 mtr.
12.	Selleng	2.10 mtr.	62.	Bohera	1.80 mtr.
13.	Dewachali	0.95 mtr.	63.	F/Sopa	0.95 mtr.
14.	Sam	1.80 mtr.	64.	Lopsi	1.20 mtr.
15.	Hingori	0.95 mtr.	65.	Jati Poma	1.10 mtr.
16.	Hollock	1.10 mtr.	66.	Gousorai	1.80 mtr.
17.	Mekai	2.00 mtr.	67.	Madar	1.10 mtr.
18.	Selleng	3.00 mtr.	68.	Bon Jalukia	2.00 mtr.
19.	Mara Sal	1.05 mtr.	69.	Dhuna	0.95 mtr.
20.	Dhuna	1.00 mtr.	70.	Poring	0.95 mtr.
21.	Khakon	3.00 mtr.	71.	Kadam	1.60 mtr.
22.	Mara Sal	1.50 mtr.	72.	Dhuna	1.30 mtr.
23.	B/Dima	0.95 mtr.	73.	Makai	2.40 mtr.
24.	Bohera	1.70 mtr.	74.	Hollong	1.60 mtr.
25.	Modat	2.50 mtr.	75.	Hollong	1.70 mtr.
26.	Bon Nogari	0.95 mtr.	76.	Udal	1.30 mtr.
27.	Mara Sal	1.00 mtr.	77.	Dimoru	1.60 mtr.
28.	Ram Tambul	1.00 mtr.	78.	Dimoru	1.30 mtr.
29.	Selleng	2.00 mtr.	79.	Itali Pohela	1.30 mtr.
30.	Mora sal	0.95 mtr.	80.	Hollong	1.80 mtr.
31.	B/Dima	0.95 mtr.	81.	Barpat	2.00 mtr.
32.	Bon Lichu	0.95 mtr.	82.	Lopsi	0.95 mtr.
33.	Bohera	0.95 mtr.	83.	Hollong	1.70 mtr.
34.	Bohera	0.95 mtr.	84.	Hollong	1.85 mtr.
35.	Dhuna	1.30 mtr.	85.	Barpat	2.00 mtr.
36.	Bohera	0.95 mtr.	86.	Khakan	1.70 mtr.
37.	Mora sal	0.95 mtr.	87.	Dhuna	0.95 mtr.
38.	Poreng	0.95 mtr.	88.	Dimoru	1.50 mtr.
39.	Khokan	2.80 mtr.	89.	D/Chali	1.70 mtr.
40.	Hollock	2.70 mtr.	90.	Baspat	1.20 mtr.
41.	Siris	1.50 mtr.	91.	Dhuna	0.95 mtr.
42.	Mara sal	1.00 mtr.	92.	G/Sopa	2.00 mtr.
43.	Hollock	0.95 mtr.	93.	Lali	2.70 mtr.
44.	Hollock	0.95 mtr.	94.	Dhuna	1.30 mtr.
45.	Jia Poma	1.50 mtr.	95.	Gamari	0.95 mtr.
46.	Amari	1.10 mtr.	96.	Gamari	0.95 mtr.
47.	Dimoru	1.50 mtr.	97.	Gamari	1.90 mtr.
48.	Udal	0.95 mtr.	98.	Hollong	1.10 mtr.
49.	Jia Poma	2.00 mtr.	99.	Hollong	1.10 mtr.
50.	Madar	1.70 mtr.	100.	Sopa	1.30 mtr.

Sl. No.	Species	Girth	Sl. No.	Species	Girth
101.	Sopa	1.45 mtr.	152.	Mara sal	0.95 mtr.
102.	Hollong	2.10 mtr.	153.	Pichula	0.95 mtr.
103.	Hollong	1.80 mtr.	154.	Hollong	2.50 mtr.
104.	Hilika	2.70 mtr.	155.	Khokon	2.50 mtr.
105.	Sam	3.00 mtr.	156.	Khokan	2.00 mtr.
106.	Gamari	2.10 mtr.	157.	Hollong	2.00 mtr.
107.	Hollong	1.65 mtr.	158.	Lali	2.30 mtr.
108.	Sopa	1.50 mtr.	159.	Selleng	2.00 mtr.
109.	Gamari	1.80 mtr.	160.	Paroli	2.55 mtr.
110.	Bhelu	2.80 mtr.	161.	Dimoru	2.95 mtr.
111.	Bon Jalukia	1.40 mtr.	162.	Hilika	2.30 mtr.
112.	Lopsi	0.95 mtr.	163.	Hollong	1.95 mtr.
113.	Lopsi	0.95 mtr.	164.	Hollong	1.60 mtr.
114.	Barpat	1.20 mtr.	165.	Hollong	1.80 mtr.
115.	Sam	1.20 mtr.	166.	Hollong	1.60 mtr.
116.	Gousorar	0.90 mtr.	167.	Lopsi	0.95 mtr.
117.	Hollong	1.90 mtr.	168.	Mekai	2.00 mtr.
118.	Makai	1.90 mtr.	169.	Bohera	3.00 mtr.
119.	Makai	2.10 mtr.	170.	Mora sal	0.95 mtr.
120.	Jutuli	1.80 mtr.	171.	Mekai	1.20 mtr.
121.	S/Nahar	1.00 mtr.	172.	Mora sal	0.95 mtr.
122.	S/Nahar	1.10 mtr.	173.	Sam	1.90 mtr.
123.	S/Nahar	0.96 mtr.	174.	Khokan	3.00 mtr.
124.	Hilika	1.10 mtr.	175.	Karri	1.30 mtr.
125.	Hilika	1.20 mtr.	176.	Jutuli	2.40 mtr.
126.	Sam	1.80 mtr.	177.	Mekai	2.00 mtr.
127.	Sam	1.40 mtr.	178.	Mara sal	1.30 mtr.
128.	Barpath	1.50 mtr.	179.	Mora sal	1.10 mtr.
129.	Hollong	1.20 mtr.	180.	Hollong	0.95 mtr.
130.	Hollong	1.30 mtr.	181.	Dimoru	2.00 mtr.
131.	Makai	1.50 mtr.	182.	Siris	2.35 mtr.
132.	Makai	1.40 mtr.	183.	Borpat	1.20 mtr.
133.	Dhuna	1.30 mtr.	184.	Jutuli	1.10 mtr.
134.	Jutuli	1.30 mtr.	185.	Dhuna	1.50 mtr.
135.	Makai	1.60 mtr.	186.	Dhuna	1.60 mtr.
136.	Udal	1.70 mtr.	187.	Dimoru	1.80 mtr.
137.	Jati Poma	1.80 mtr.	188.	Mekai	2.10 mtr.
138.	Selleng	1.90 mtr.	189.	Sam	2.00 mtr.
139.	Khokan	1.30 mtr.	190.	Mekai	1.90 mtr.
140.	Khokan	1.45 mtr.	191.	Bohera	1.80 mtr.
141.	Kadam	1.95 mtr.	192.	Bohera	1.70 mtr.
142.	Lopsi	1.10 mtr.	193.	S/Nahar	0.95 mtr.
143.	Pichola	0.95 mtr.	194.	S/Nahar	1.10 mtr.
144.	Udal	0.95 mtr.	195.	Siris	1.20 mtr.
145.	S/Nahar	0.95 mtr.	196.	Kadam	1.25 mtr.
146.	Pichola	1.30 mtr.	197.	Hollock	1.80 mtr.
147.	Mora sal	1.30 mtr.	198.	Khokan	1.40 mtr.
148.	Hollong	2.50 mtr.	199.	Khokan	1.50 mtr.
149.	Lali	2.45 mtr.	200.	Borpat	1.60 mtr.
150.	Hati pohela	1.50 mtr.	201.	Hollock	1.50 mtr.
151.	Jutuli	1.10 mtr.			

(T. Raju) A.P.

Sl: 10(B)
aot India add
19.04.16

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Divisional Forest Officer
Deomali Forest Division
Deomali, Dist. Tirup (A.P.)

Annexure - iv

Details of species wise Number of trees for Diversion of Forest land at Namsang VRF Deomali Forest Range.

Sl. No.	Species	Class	90-121	122-150	151-182	183-212	213-243	244-273	274-304	Total
1.	Hollong	A II	4	3	10	5		2		24
2.	Makai	A III	1	2	1	7	1			12
3.	Hollock	A IV	3					1		4
4.	Gamari	A IV	2		1	2				5
5.	Dhuna	B I	4	4	2					10
6.	Sam	B I	1	1	2	2			1	7
7.	Khokan	B I		5	3	1		1	3	13
8.	Siris	B I	1	1			1			3
9.	Amari	B I	1							1
10.	Jati poma	B I	1		1					2
11.	Gamari	B I	1		1					2
12.	Itali pohela	B I		2						2
13.	Barpat	B I	3	1	1	2				7
14.	Sopa	B I		3						3
15.	Udal	B I	3	1	1					5
16.	Hingori	B I	2		1					3
17.	Lali	B II	1		1		1	2		5
18.	Hilika	B II	3				1	1		5
19.	B/Dima	B II	4							4
20.	Jutuli	B II	2	1	1	1	1			6
21.	Bohera	B II	3		4				1	8
22.	F/Gamari	B II		1						1
23.	Ping	B II	2							2
24.	Bohera	B II							1	1
25.	Pechola	B II	2	1						3
26.	Jia poma	C		1		1				2
27.	Kadam	C		1	1	1				3
28.	S/Nahar	C	6							6
29.	Selleng	D				3	1		1	5
30.	Dewachali	D	1		1					2
31.	Bon Bogori	D	1							1
32.	Satiana	D			1					1
33.	Paroli	D		1	1			1		3
34.	G/ Sopa	D				1				1
35.	Karil	D		1						1
36.	Dimoru	E	1	4	2	1			1	9
37.	Bon Julukia	E		1		1				2
38.	Morasal	F	8	2		1				11
39.	Madar	F	2		1			1		4
40.	Ram Tambul	F	1							1
41.	F/ Sopa	F	1							1
42.	Lopsi	F	6							6
43.	Bonchilli	F	1							1
44.	Poring	F	3							3

[Signature]
T. Rangbari Dy. For
Forest Officer
Deomali Forest Range
Deomali



[Signature]
Sr. L. O (B)
Oil-hudia
19.04.16

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[Signature]
Divisional Forest Officer
Deomali Forest Division
Bansil Dist. Tirup (A.P.)

Detailed of Species wise Volume of trees against diversion of forest land under Deomali Forest Range Name VRF.

S.I No.	Species	Class	90-121	122-150	151-182	183-212	213-243	244-273	274-304	Total Vol
1.	Hollong	A II	3.300	5.349	24.450	17.270	-	11.780	-	63.149
2.	Makai	A III	0.825	3.396	2.292	24.178	4.133	-	-	34.824
3.	Hollock	A IV	1.230	-	-	-	-	5.351	-	6.581
4.	Gamari	A IV	0.820	-	2.292	6.908	-	-	-	10.020
5.	Dhuna	B I	1.640	3.168	1.812	-	-	-	-	6.620
6.	Sam	B I	0.410	0.792	1.812	3.226	-	-	3.454	9.694
7.	Khakan	B I	-	3.960	2.718	1.613	-	2.831	10.362	21.484
8.	Siris	B I	0.410	0.792	-	-	2.236	-	-	3.438
9.	Amari	B I	0.410	-	-	-	-	-	-	0.410
10.	Jati Poma	B I	0.410	-	0.906	-	-	-	-	1.316
11.	Gousorai	B I	0.410	-	0.906	-	-	-	-	1.316
12.	Itali pohela	B I	-	1.584	-	-	-	-	-	1.584
13.	Barpat	B I	1.230	0.792	0.906	3.226	-	-	-	6.154
14.	Sopa	B I	4.920	2.376	-	-	-	-	-	2.376
15.	Udal	B II	1.230	0.792	0.906	-	-	-	-	2.928
16.	Hingori	B II	0.820	-	0.906	-	-	-	-	1.726
17.	Lali	B II	0.410	-	0.906	-	2.236	5.662	-	9.214
18.	Hilika	B II	1.230	-	-	-	2.236	2.831	-	6.297
19.	B/Dima	B II	1.640	-	-	-	-	-	-	1.640
20.	Jutuli	B II	0.820	0.792	0.906	1.613	2.236	-	-	6.367
21.	Bohera	B II	1.230	-	3.624	-	-	-	3.454	8.308
22.	F/Gamari	B II	-	0.792	-	-	-	-	-	0.792
23.	Ping	B II	0.820	-	-	-	-	-	-	0.820
24.	Bhelu	B II	-	-	-	-	-	-	3.454	3.454
25.	Pichola	B II	0.820	0.792	-	-	-	-	-	1.612
26.	Jia poma	C	-	0.792	-	1.613	-	-	-	2.405
27.	Kadam	C	-	0.792	0.906	1.613	-	-	-	3.311
28.	S/Nahar	C	2.460	-	-	-	-	-	-	2.460
29.	Selleng	D	-	-	-	4.839	2.236	-	3.454	10.529
30.	Dewachali	D	0.410	-	0.906	-	-	-	-	1.316
31.	Bon Bogori	D	0.410	-	-	-	-	-	-	0.410
32.	Satiana	D	-	-	0.906	-	-	-	-	0.906
33.	Parali	D	-	0.792	0.906	-	-	2.831	-	4.529
34.	g/Sopa	D	-	-	-	1.613	-	-	-	1.613
35.	Karil	D	-	0.792	-	-	-	-	-	0.792
36.	D/Moru	E	0.410	3.168	1.812	1.613	-	-	3.454	10.457
37.	Bon Julikia	E	-	0.792	-	1.613	-	-	-	2.405
38.	Mora Sal	F	3.280	1.584	-	1.613	-	-	-	6.477
39.	Madar	F	0.820	-	0.906	-	-	2.831	-	4.557
40.	Ram Tambul	F	0.410	-	-	-	-	-	-	0.410
41.	F/Sopa	F	0.410	-	-	-	-	-	-	0.410
42.	Lopsi	F	2.460	-	-	-	-	-	-	2.460
43.	Banchalli	F	0.410	-	-	-	-	-	-	0.410
44.	Poring	F	1.230	-	-	-	-	-	-	1.230
Total			32.825	34.089	52.684	72.551	15.313	34.117	27.632	269.211

[Signature]
C. T. Raingbam Dyke

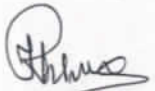
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Divisional Forest Officer
Deomali Forest Division
Deomali, Dist. Thirup (A.P.)

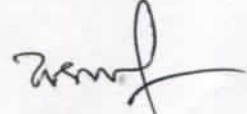
Details of valuation of enumerated trees & pole category wise against Namsang VRF. Under Deomali Forest Range.

Sl. No.	Class	Girth	Cum.	Rate Amount	Total	Remarks
1.	A II	Above Girth.	59.849	9475/-	5,67,069/-	
		Below Girth.	3.300	3793/-	12,517/-	
		Pole size.	18.912	32/-	605/-	
2.	A III	Above Girth.	33.972	8092/-	2,74,901/-	
		Below Girth.	0.852	3238/-	2,759/-	
		Pole size.	15.354	32/-	49/-	
3.	A IV	Above Girth.	14.551	4063/-	59,121/-	
		Below Girth.	2.050	1624/-	3,329/-	
		Pole size.	13.153	28/-	368/-	
4.	B I	Above Girth.	49.472	2818/-	1,39,412/-	
		Below Girth.	4.920	1130/-	5,560/-	
		Pole size.	29.193	13/-	380/-	
5.	B II	Above Girth.	34.138	1882/-	64,248/-	
		Below Girth.	9.020	755/-	6,810/-	
		Pole size.	32.935	13/-	428/-	
6.	C	Above Girth.	5.716	1425/-	8,145/-	
		Below Girth.	2.460	567/-	1,395/-	
		Pole size.	10.915	10/-	109/-	
7.	D	Above Girth.	19.275	946/-	18,234/-	
		Below Girth.	0.820	381/-	312/-	
		Pole size.	7.813	7/-	55/-	
8.	E	Above Girth.	13.272	746/-	9,901/-	Timber = 270.031 Cum.
		Below Girth.	0.410	305/-	125/-	Pole size = 169.854 Cum.
		Pole size.	12.192	6/-	73/-	
9.	F	Above Girth.	6.934	400/-	2,774/-	
		Below Girth.	9.020	155/-	1,398/-	
		Pole size.	29.387	6/-	176/-	
		Total	439.885		11,80,253/-	

Abstract of Cost

1. Cost of Timber	= 11,78,010/-
2. Pole size	= 2,243/-
3. Cost of NTFP	= 17,06,200/-
	28,86,453/-


(T. Rangkhram) Dy.FR
 Range Forest Officer
 Deomali Forest Range

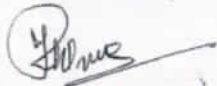

(C. Simai) DCF
 Divisional Forest Officer
 Deomali Forest Division

Details of valuation of enumerated Non-Timber Forest Produce (NTFP) against diversion of Forest Land for Namsang, Doidam Road under Deomali Forest Range, Deomali Forest Division.

Sl. No.	Name of Species	Quantity	Rate	Amount	Remarks
1	Broom Stick	1,800 Bundles	16.00	28,800.00	As per Market Rate
2	Lazai Cane	1200/ Cops	14.00	16,800.00	
3	Roidang Cane	800/ Cops	22.00	17,600.00	
4	Jeng path	110,000 Nos	1.50	1,65,000.00	
5	Bamboo (Jati)	28,000 Nos.	50.00	14,00,000.00	
6	Toko Leaves	13,000 Nos.	6.00	78,000.00	
Total				17,06,200.00	

(Rupees Seventeen lakhs, six thousand, two hundred)only

N.B. The above trees enumeration is prepared on the basis of Random Sampling method



(T. Rangkhram) Dy. FR
Range Forest Officer
Deomali Forest Range



(C. Simai) DCF
Divisional Forest Officer
Deomali Forest Division

Estimate for Extraction of trees to be felled for Namsang VRF under Deomali Forest Range.

Sl. No.	Particular of work	Quantity Cum	Quantity (Cft)	Rate per (Cft)	Amount	Remarks
1.	Cost of Marking	99.357	3509	2/-	7018/-	
2.	Cost of felling	-do-	-do-	6/-	21,054/-	
3.	Cost of Cross cutting	-do-	-do-	5/-	17,545/-	
4.	Cost of Dragging	-do-	-do-	18/-	63,162/-	
5.	Cost of transportation	-do-	-do-	24/-	84,216/-	
6.	Depot maintains & TE etc.	-do-	-do-	4.75/-	16,668/-	
	Total			59.75	2,09,663/-	


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 Deomali Forest Range


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 Divisional Forest Officer
 Deomali Forest Division



Government of Arunachal Pradesh
DEPARTMENT OF ENVIRONMENT, FORESTS & CLIMATE CHANGE
OFFICE OF THE DIVISIONAL FOREST OFFICER
DEOMALI FOREST DIVISION

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CERTIFICATE

This is to certify that the plot of land measuring 07.2 ha (double the area of proposed diversion site) falls under Namsang VRF. The identified area is degraded forest land and is suitable for raising compensatory afforestation against the diversion of forest land of oil drilling site (DML-3). The selected CA area is ideal for management purposes.

(C. Simai) DCF
Divisional Forest Officer
Deomali Forest Division

SITE INSPECTION REPORT BY CONCERNED DEPUTY CONSERVATOR OF FORESTS

- | | | | |
|----|---|----|---|
| 1. | Name of the Project | :- | Namsang Village, Deomali, DML-3 by OIL India Ltd. Duliajan (Assam) |
| 2. | Whether any rare/ endangered/ unique Species of flora and fauna found in the area if so details thereof. | :- | No endangered species/ flora & fauna seen in the proposed diversion area |
| 3. | Whether any protected archeological/ heritage site/ defense establishment of any other important monument is located in the area. If so, the details thereof with NOC form competent authority, if required. | :- | No. |
| 4. | Whether the required of forest land as Proposed by the user agency in col. 2 of part-I is unavoidable and barest minimum for the Project. | :- | Yes, it is unavoidable and barest minimum requirement for oil drilling. |
| 5. | Whether any work in violation of the Act has been carried out (Yes/ No). If yes, details of the same including period of work done, action taken on erring officials. Whether work in violation is still in progress. | :- | No. |
| 6. | Rehabilitation and Relocation of affected people. | :- | NIL |
| 7. | Soil erosion / Vulnerable Areas | :- | Diversion proposal is being sought for oil drilling purposes, so there is negligible chance of erosion. |



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Deomali Forest Division

NET PRESENT VALUE CALCULATION SHEET OF PROPOSED DRILLING SITE , NAMSANG VILLAGE (DML-3) .

Calculation of Net Present Value (NPV) of the proposed drilling site in Namsang Village.

Value of the proposed land to be diverted consisting of tree etc. as follows :-

1. Total area of proposed site :: 3.60 ha.

NPV Calculation :: ₹ 9,39,000.00 (Eco-Class I Dense Forest) x 3.60 ha
= ₹ 33,80,400.00 lakhs

NB :- Rate calculated as per GOI's guideline issued under Memo no. 1-19/CEC/ SC/2006- Pt . Dated 05.06.2008.



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Deomali Forest Division

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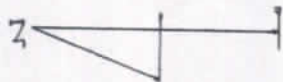
COMPENSATORY AFFORESTATION PLANTATIONS UNDER DEOMALI FOREST RANGE

AREA - 7.2 HECTARE S → 1:20 (cm: Mm)

DML → 3

INDEX

1. A-B = 75°	120 M
2. B-C = 100°	60 "
3. C-D = 165°	160 "
4. D-E = 185°	140 "
5. E-F = 165°	160 "
6. F-G = 190°	140 "
7. G-H = 178°	120 "
8. H-I = 350°	180 "
9. I-J = 348°	160 "
10. J-K = 18°	150 "
11. K-A = 04°	140 "
TOTAL →	9.5 HA.



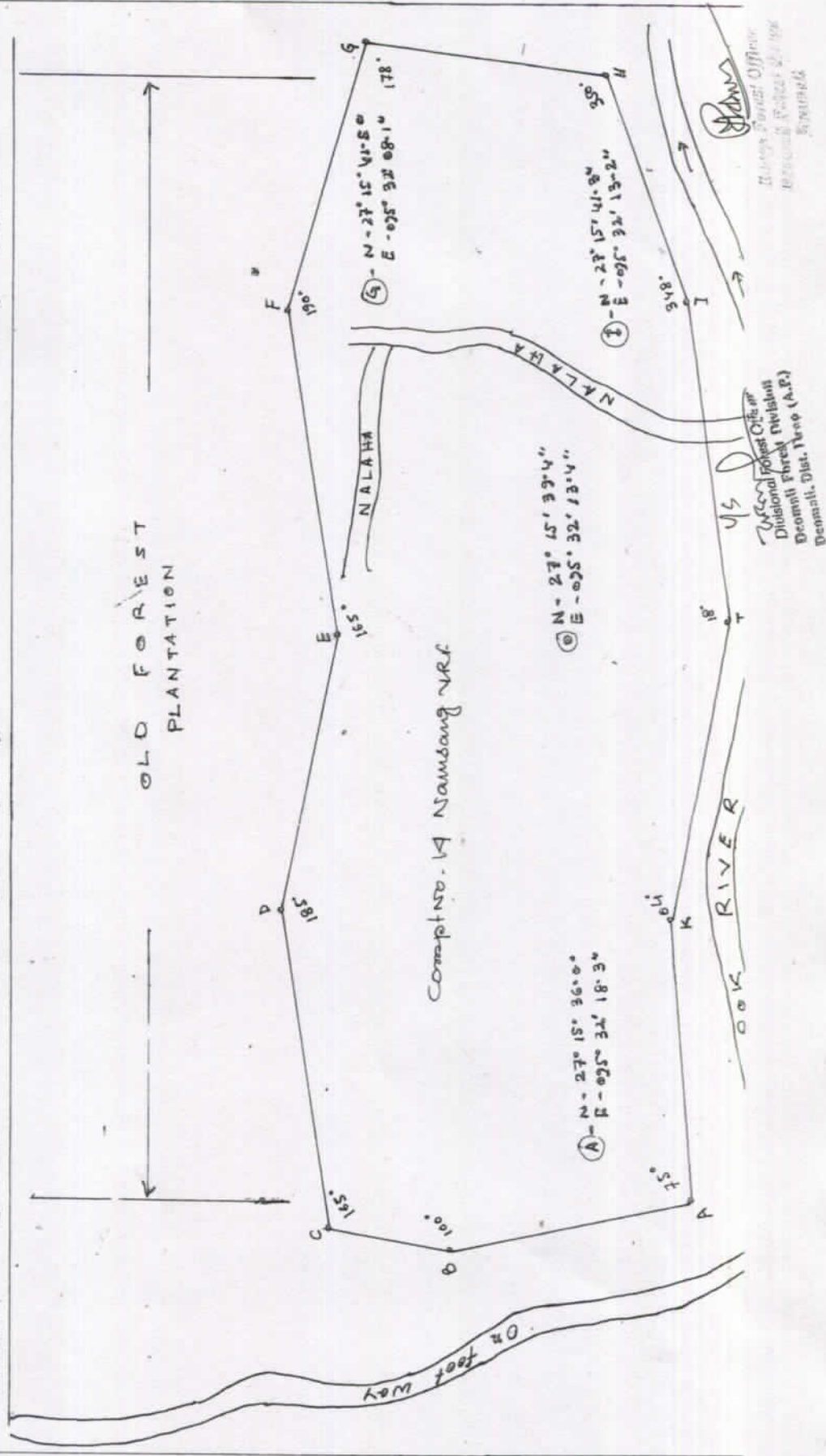
ROAD

DIVOK

→ Deomali

OLD FOREST
PLANTATION

Compt No. 14 Namsang VRF



Deomali Forest Office
Deomali Forest Range
Deomali, Dist. Namsang

Deomali Forest Office
Deomali Forest Range
Deomali, Dist. Namsang

Raised cost Norms for compensatory Afforestation plantation (1100 No of poly pot seedling per hectare at a spacing of 3 m x 3m to be planted) The cost Norms are for 1 hect area.

1. Location :- Namsang VRF.- DML-3
 2. Forest Range :- Deomali Forest Range
 3. Seedling/ Spacing :- 1100/3 m x 3m
 4. Species :- Hollong, Makai, Dhuna, Hollock, Sopa, Hilika, Sam.
 5. Area :- 7.20 hect.
 6. R. F. :- Namsang VRF
 7. Geo-reference :-

Sl. No.	Item of work	Manday	Cost of plantation	Total	Remarks
1.	1 st year operation				
	Survey & demarcation and preparation of map @ 5 D/I s	4	528	3802/-	
	Add paid holidays @ 18.63%	1	132	950/-	
	Sub total	5	660/-	4752/-	
2.	2 nd year operation				
	I) Erection of barbed wire fence (5 strand) fencing 100 Rmt.		10990/-	79128/-	Cost of Norms
	II) Maints. Barbed wire, fencing @ 5% of erection cost in each year from 3 rd year 6 year Add. Add 10% escalation value by multiplying factor.				
	1.20 for 3 rd year		659	4745/-	
	1.30 for 4 th year		714	5141/-	
	1.40 for 5 th year		769	5537/-	
	1.50 for 6 th year		824	5933/-	
	Sub total		13956/-	100484/-	
3.	Raising of seedling for casualty replacement 1 st year- 15%- 165 m 1180 2 nd year- 10%- 110 m 792	No.	1200 800	11250/- 7520/-	As per Norms
4.	Raising of plantation				
	I) Clearance of brush wood planting lines & skating of devises @ 15 D/l s per hac.	15	108	14256/-	
	II) Alignment of pits preparation of stakes, staking.	10	72	9504/-	
	III) Digging of pits 30 x 30 x 30 cum	25	180	23760/-	
	IV) Transportation of seedling to the planting silly planting of seedling	20	216	28512/-	
	V) Making of inspection path 1 mt wide	3	216	2851/-	
	VI) Fire line cutting 3 mt wide along the periphery	5	36	4752/-	
	VII) Tending 4 weeding	48	354.6	45619/-	
	VIII) Add paid holiday @ 18.63%	23	180	23760/-	
	Add 10% escalation value on total of item 4 (I) to 4 (VIII)	14.6	105.12	13876/-	
	Sub total			185690/-	

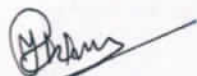
Sl. No.	Item of work	Monday	Cost of Planting	Wages Rate	Area (ha)	Amount	Remarks
5.	3 rd year operation						
	I) Tending 3 weeding	36	4752/-	132/-	7.20 Ha	34214/-	
	II) Casualty replacement 15%	7	924/-	-do-	-do-	6653/-	
	III) Maints. of inspection path	1	132/-	-do-	-do-	950/-	
	IV) Maints. of fire line	1	132/-	-do-	-do-	950/-	
	V) Add paid holidays @1863%	8	1056/-	-do-	-do-	7603/-	
	On item 5 (I) to 5 (V)	10.6	1399.2/-	-do-	-do-	10074/-	
	Add 20% escalation value on total of 5 (I) to 5 (V).						
	Sub total	63.6	8395/-		7.20	60444/-	
6.	4 th year operation						
	I) Tending 2 weeding	24	3168/-	132/-	7.20	22810/-	
	II) Casualty replacement 10%	7	924/-	-do-	-do-	6653/-	
	III) Maints. of inspection path	1	132/-	-do-	-do-	950/-	
	IV) Maints. of fire line	1	132/-	-do-	-do-	950/-	
	V) Add paid holiday @18.63 % on 6 (I) to 6 (IV).	6	792/-	-do-	-do-	5702/-	
	Add 30% escalation value on 6 (I) to 6 (V)	117	1544/-	-do-	-do-	11120/-	
	Sub total	507	6692.2/-		7.20	48185/-	
7.	5 th year operation						
	I) Tending – 1weeding	12	1584/-	132/-	7.20	11405/-	
	II) Maints. of inspection path.	1	132/-	-do-	-do-	950/-	
	III) Maints. of fire line.	1	132/-	-do-	-do-	950/-	
	IV) Add paid holiday @18.63% on 7 (III)	3	396/-	-do-	-do-	2851/-	
	Add 40% escalation value on 7 (I) to (IV).	6.8	898/-	-do-	-do-	6466/-	
	Sub total	23.8	3141.6/-		7.20	22622/-	
8.	6 th year operation						
	I) Tending 1 weeding	12	1584/-	132/-	7.20	11405/-	
	II) Maints. of inspection path	1	132/-	-do-	-do-	950/-	
	III) Maints. of fire line	1	132/-	-do-	-do-	950/-	
	IV) Add paid holiday @18.63% on 8 (I) to 8 (IV)	3	396/-	-do-	-do-	2851/-	
	Add 50% escalation value on item 8 (I) to (IV)	3.5	462/-	132/-	7.20	3326/-	
	Sub total	25.5	3366		7.20	19482/-	
9.	7 th year operation						
	I) Tending 1 weeding	5	660	132/-	7.20	4752/-	
	II) Add paid holiday @18.63% on 9 (I)	1	132	-do-	-do-	950/-	
	Add 60% escalation value on item 9 (I) to 9 (II)	3.6	475	-do-	-do-	3420/-	
	Sub total	9.6	1267		7.20	9122/-	

No.	Item of work	Manday	Cost of Planting	Wages Rate	Area (ha)	Amount	Remarks
10.	8 th year operation						
	I) Maints. of inspection path/ Fire line & climber cutting.	5	660/-	132/-	7.2	4752/-	
	II) Add paid holiday @18.63% on 10 (I)	1	132/-	-do-	-do-	950/-	
	Add 70% escalation value on 10 (I) to 10 (II)	4.2	554/-	-do-	-do-	3989/-	
	Sub total	10.2	1346/-		7.2	9691/-	
11.	9 th year operation						
	I) Maints. of inspection path/ Fire line & climber cutting	5	660/-	132/-	7.2	4752/-	
	II) Add paid holiday @18.63% 11 (I)	1	132/-	-do-	-do-	950/-	
	Add 80% escalation value on total 11 (I) to 11 (II)	5	660/-	-do-	-do-	4752/-	
	Sub total	10	1320/-			10454/-	
12.	10 th year operation						
	I) Maints. of inspection path/ Fire line and climber cutting	5	660	132	7.2	4752/-	
	II) Add paid holiday @18.63 on 12 (I)	1	132	132	-do-	950/-	
	Add 80% of escalation value on total of item 12 (I) to 12 (II)	5.4	713	-do-	-do-	5134/-	
	Sub total	11.4	1505			10836/-	
13.	Wages of plantation watch man i.e. Unskilled labourer round year for 10 year (one p/watch for every 25 ha of area subject to a minimum area of 15 ha @ Rs 4500/- for area =II per month Add escalation value by multiplying factor 1 st year.	1 D/lis for 10 year	45000	4500/-	-do-	45000/-	
	(M.F) 1.1 for 2 nd year.	1D/lis for 10 year	7425	7525	7.2	74250/-	
	(M.F) 1.2 for 3 rd year		8100	8100	-do-	81000/-	
	(M.F = 1.3) for 4 th year	-do-	8775	8775		87750	
	(M.F = 1.4) for 5 th year	-do-	9450	9450		94500	
	(M.F = 1.5) for 6 th year	-do-	10125	10125		101250	
	(M.F = 1.6) for 7 th year	-do-	10800	10800		108000	
	(M.F = 1.7) for 8 th year	-do-	11475	11475		114750	
	(M.F = 1.8) for 9 th year	-do-	12825	12825		128520	
	Sub total			69600		835020/-	
14.	Monitoring and supervision (per maint. of vehicle supervision year TF etc) 10% on item No. 1 to 13 plus nursery					131678/-	

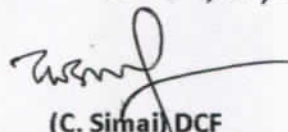
Sl. No.	Item of work	Mandays	Cost of Planting	Wages Rate	Area (ha)	Amount	Remarks
15. (A)	Construction of OBT labour shed (2 room) for worker at plantation site subject to a minimum area of 10 ha and up to 25 ha beyond 25 ha one room to be added for every 13 ha or part thereof an proportionate cost.	1 No.	125,350/-	125,350/-	7.2	125350/-	
15. (B)	Maints. of OBT hact @ 25% of the construction cost per year from 4 th year to 6 th year including escalation value by multiplying factor.						
	1.3 for 4 th year	1 Nos.	3396/-	3396/-	7.2	3396/-	
	1.4 for 5 th year	1 Nos.	3658/-	3658/-	-do-	3658/-	
	1.5 for 6 th year	1 Nos.	3917/-	3917/-	-do-	3917/-	
	Sub total					136321/-	
16.	Approach foot track to plantation area where necessary.	790 Rmt.	4.25/-	4.25/-	7.2 Rmt.	3358/-	
17.	Entry point activities @ 10,000/- per hact			10,000/-	7.2	72000/-	
18.	Provision for soil and moisture conversation structures (where nudged) @ 4,600/- per hact.			4600/-	7.2	33120/-	
19.	Contingency 5% item No. 10-18 plus Nursery cost to the unforeseen expenditure					90930/-	

Gr. Total

= RS 17,84,159/-



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