

**SCHEME FOR COMPENSATORY
AFFORESTATION OVER 4.560 HA. OF
NON FOREST GOVT. LAND
IDENTIFIED IN VILLAGE
SANADHAURAGOTHA UNDER
PALLAHARA TAHASIL OF KHAMAR
RANGE DEOGARH FOREST DIVISION**

**FOREST DIVERSION OF 4.545 HA. OF FOREST
LAND FOR REHABILITATION AND UP-
GRADATION OF NH- 149 FROM KM. 0.000 TO
KM. 68.280 (PALLAHARA TO PITIRI) TO TWO
LANES WITH PAVED SHOULDER UNDER
NHDP-IV A IN THE STATE OF ODISHA ON EPC
MODE. (PALLAHARA BYE PASS) BY
THE EXECUTIVE ENGINEER,
NATIONAL HIGHWAY DIVISION,
PALLAHARA/ DHENKANAL**

PREPARED BY

**DIVISIONAL FOREST OFFICER,
DEOGARH DIVISION.**

ELEMENTS OF THE SCHEME FOR COMPENSATORY AFFORESTATION

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CHAPTER- I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

The proposal for bye-pass has been made in the estimate due to heavy traffic and congestion, to improve industrial economy, reduce accident & driving comfort, Environmental & Social improvement of the settlements adjoining to the road in Pallahara Town which is intermediate lane covered with built up area and non availability of R.O.W. The proposed bye pass is passes through Pallahara, Kainsiripali & Subarnapali village which involves Revenue Forest Land to the tune of 4.545 Ha. in Pallahara Sub Division under Angul District

Compensatory Afforestation over the non-forest land equal in extent to the forest land proposed for diversion for Rehabilitation and Up-gradation of NH- 149 from Km. 0.000 to Km. 68.280 (Pallahara to Pitiri) to two lanes with paved shoulder under NHDP-IV A in the state of Odisha on EPC mode. (Pallahara bye pass) shall be raised under Deogarh forest division and maintained by the State Forest Department from funds to be provided by the user agency.

The present scheme aims at preparation of a site-specific Compensatory Afforestation scheme over 4.560 ha. of non- forest Govt. land identified within village Sanadhauragotha under Pallahara Tahasil of Khamar Forest Range in Deogarh Forest Division with a maintenance period of ten years.

CHAPTER- II

DETAILS OF LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION

A. - LAND IDENTIFICATION AND JOINT VERIFICATION OF THE IDENTIFIED SITE.

The site for Compensatory Afforestation has been identified in village Sanadhauragotha under PallaharaTahasil in Khamar Range of Deogarh Forest Division over 4.560 ha. and has been jointly verified by the Tahasildar, Pallahara, Revenue Inspector, Kunjam, Range Officer, Khamar Range, Forest Section Officer, Khamar. The identified site bearsKhata No. 73 and Plot No. 768 and Plot No. 717, 718, 719, 720, 721, 722, 723, 724, 725, 727, 729, 730, 731, 732, 733, 734 & 736.

B. - INFORMATION ON NON-ENCROACHMENT AND NON-ENCUMBRANCE.

The Tahasildar, Pallahara has given certificate regarding non-encroachment and non-encumbrance of the identified non-forest land for raising Compensatory Afforestation.

C. - INFORMATION ON LAND STATUS.

The land scheduled and land status, identified and allotted for Compensatory Afforestation, is furnished hereunder:-

Tahasil	Village	Khata No.	Plot No.	Area (in acre)	Kissam.
Pallahara	Sanadhauragotha	73	768	6.48	Patita
			717	0.40	Patita
			718	0.32	Patita
			719	0.35	Patita
			720	0.26	Patita
			721	0.26	Patita
			722	0.25	Patita
			723	0.28	Patita
			724	0.34	Patita
			725	0.46	Patita
			727	0.24	Patita
			728	0.25	Patita
			729	0.24	Patita
			730	0.25	Patita
			731	0.18	Patita
			732	0.18	Patita
			733	0.18	Patita
			734	0.20	Patita
			736	0.14	Patita
			Total	11.26 acre Or 4.560 Ha.	

D.-SUITABILITY OF THE IDENTIFIED SITE FOR COMPENSATORY AFFORESTATION-

The identified land is free from encroachment and encumbrance. This land is neither covered under Section-4 of Orissa Forest Act, 1972 nor included in DLC report.

The non-forest land identified in village Sanadhauragotha is in two patches. The soil type occurring in the area is mostly sandy loam having good soil depth; pH of the soil varies from 6-8. The site is having gentle slope with least soil erosion. The Climate condition of the area favoring growth of dry deciduous forest having average annual rainfall of 80-90 cm, max temp. 45°C. The summer spell in March to June, winter spells in November to February and Rainy season prevails from July to September. The identified land is therefore taken up for Compensatory Afforestation in AR plantation model @ 1600 seedlings/ha over 4.560 Ha with site specific SMC measures. The identified site is situated adjacent to village Sanadhauragotha. The site has been demarcated with 4 feet height RCC pillars.

CHAPTER-III

DELINEATION OF PROPOSED AREA ON SUITABLE MAP

III(1)- GPS COORDINATES AND GPS MAP OF THE COMPENSATORY AFFORESTATION SITE

The area has been demarcated through DGPS survey and DGPS survey data showing latitude and longitude of each point and their chainage with bearing is also enclosed in the map prepared thereon (Maps enclosed).

CHAPTER- IV

AGENCY RESPONSIBLE FOR COMPENSATORY AFFORESTATION

IV(1)- AGENCY RESPONSIBLE FOR PLACEMENT OF FUNDS

The user agency shall provide funds for raising Compensatory Afforestation as per approved scheme.

IV(2)- AGENCY RESPONSIBLE FOR EXECUTION OF COMPENSATORY AFFORESTATION

The Territorial Wing of the Forest Department i.e. Divisional Forest Officer, Deogarh Division will be assigned with the task for execution of the Compensatory Afforestation.

CHAPTER- V
DETAILS OF WORK SCHEDULE PROPOSED FOR COMPENSATORY
AFFORESTATION

A. PLANTING PLAN

Planting Plan reflects the species specific treatment of the identified site. Choice of species is based on the geo-morphology of the site, soil-texture, structure, fertility and depth, proneness of the site to water logging etc. Specific treatment of the site in terms of soil and moisture conservation intervention will be depicted in the treatment map. A treatment map will invariably be prepared for Species to be planted and treatments to be applied to the different patches shown in the treatment map and planting plan. This plan will be followed when actual planting is carried out.

Species to be planted:-

1. *Tectonagrandis* (Teak)
2. *Pongamiaglabra* (Karanja)
3. *Dalbergiasissoo* (Sisoo)
4. *Gmelinaarborca* (Gambhar)
5. *Sizyziumcumini* (Jamun)
6. *Azadirrachtaindica* (Neem)
7. *Emblica officinalis* (Ainla)

B. PRE-PLANTING OPERATION

B(I)-RAISING OF PLANTATION STOCK- NURSERY-

Nursery will be raised @1760 seedlings per ha including seedlings for 10% causality replacement.

B(II)-SURVEY, DEMARCATION & PILLAR POSTING, GPS READING WITH MAPPING-

The planting area has been surveyed and demarcated with four feet height RCC pillars at inter visible distance (as per the direction of the Forest Range officer, Khamar Range) with GPS coordinates, forward and backward bearing, pillar No. and distance between pillars inscribed in it. A GPS map in the scale of 1:4000 has been prepared along with GPS co-ordinates, forward & backward bearing, pillar to pillar distance and pillar numbers reflected in the map.

B(III)- SITE PREPARATION AND SILVICULTURAL OPERATION INCLUDING CLEARANCE OF WEED, CLIMBER CUTTING, HIGH STUMP CUTTING, SINGLING OF SHOOTS-

The clearing of the site involving removal of invasive weeds, bushes, climbers, high stumps and singling of shoots will be taken up preferably by the end of February and latest by the end of March. Pits of the dimension 30 x 30 x 30 cm. will be dug @ 1600 per ha. in the available gaps preferably 2 months before or at least a month before planting of seedlings.

C. PLANTING OPERATION

Planting of seedlings will be taken up in the month of July. The polythene covering of the balls of earth will be carefully removed before planting. Care will be taken to see that the ball of earth is not broken while doing so. The seedling with the ball of earth will then be placed firmly in the pit and buried at such a depth that the root collar is well below the surface of the soil. The soil around the plant will be well compacted with the heel as a final step so that there is a proper bond between the ball and the surrounding soil. The earth close to the collar will be slightly elevated so that rain water does not accumulate very close to the plant.

D. POST PLANTING OPERATION **D(1)-CASUALTY REPLACEMENT**

The entire area will be gone over in the same order as plantation was carried out and casualties, if any, will be replaced as soon as the main plantation operation is over.

D(2)-WEEDING AND SOIL WORKING

Regular and efficient weeding will start immediately after sprouting of the stumps is complete or after the seedlings have started throwing up new buds.

D(3)-MANURING AND INSECTICIDE APPLICATION

On degraded sites urban compost or farmyard manure, wherever available, will be added to the soil while refilling the pits. As regards artificial fertilizers, the minerals required and dosage @ 50 grams of patent mixtures like 'Gromor' or N.P.K. (2:2:1) will be applied in two split doses one in August and the other in September.

D(4)-SOIL MOISTURE CONSERVATION MEASURES

Special Soil Moisture Conservation Measures will be taken up through construction of LBCD structures of 3 mtr span to the tune of 10nos. and 2 mtr span to the tune of 15nos.

D(5)-PROTECTION AGAINST FIRE AND GRAZING

Fire line tracing will be ensured to protect the plantation from fire and watch & ward will be provided as per the approved norm for protecting the plantation from grazing. Barbed wire fencing is suggested as a safeguard measures against grazing as well as other biotic pressure including shifting cultivation.

CHAPTER- VI

COST STRUCTURE OF PLANTATION, PROVISION OF FUNDS AND UTILIZATION

A. ESTIMATE OF COST FOR 1.00 Ha. UNDER AR PLANTATION MODEL

0th year (Advance work) Pre-planting operation.

**COST NORM FOR AR PLANTATION @ 1600 PLANTS PER HECTARE
WAGE RATE Rs. 213.50/- PER DAY**

Sl. No.	Items of work	Preferable Period of Execution	Person days	Labour cost @ Rs.213.50/- per day	Material cost (Rs.)	Total cost (Rs.)
1	2	3	4	5	6	7
0th year (Advance work) pre-planting operation						
1	Survey, Demarcation & pillar posting.	Nov/Dec	2	427	0	427
2	Site preparation	Nov/Dec	8	1708	0	1708
3	Alignment and stacking of pits	Jan/Feb	2	427	0	427
4	Digging of Pitting (30cm. cube)	Feb/Mar	40	8540	0	8540
5	Nursery cost (6 months old seedling) part @ Rs. 9.45/- seedling (Rs. 6.67/- in 0th year + Rs. 2.78/- in 1st year) for 1760 seedlings (1600+160)	Jan/Mar	0	0	11739	11739
	Total		52	11102	11739	22841
1st year / planting year						
6	Nursery cost (6 months old seedling) balance @ Rs. 2.78/- for 1760 seedlings	Apr/Jul	0	0	4893	4893
7	Carriage & planting, Casualty Replacement and application of insecticides, manure etc.	Jul/Aug	21	4483.50	0	4483.50
8	Cost of insecticide and fertilizer (a) NPK @ 50 gms/plant as basal dose = 80 kg @ Rs 24/- per kg = Rs. 1920 (b) Urea @ 70 gms/plant in two subsequent doses @ Rs. 6/- per kg = Rs. 672.00 (c) Granular insecticide (Themet, Forate etc.) @ 5 gms/plant @Rs. 80/- per kg = Rs. 640.00		0	0	3232	3232
9	1st weeding (complete weeding)	Aug/Sep	7	1494.50	0	1494.50
10	Manuring Urea 35 gm	Aug/Sep	5	1067.50	0	1067.50
11	2nd weeding (complete weeding)	Sep/Oct	5	1067.50	0	1067.50
12	Soil working (50cms. Radius around plants) & manuring Urea 35 gms per plant	Sep/Oct	7	1494.50	0	1494.50

13	Soil conservation measures in the form of staggered trenches of size 2m x 2mx 0.5 m @ 30 nos. Per ha.	Sep/Oct	10	2135	0	2135
14	Fire line tracing and inspection path	Feb/Mar	3	640.50	0	640.50
15	Watch and ward	Aug/Mar	14	2989	0	2989
	Total		72	15372	8125	23497
2nd Year Maintenance						
16	Casualty replacement (10%) with Nursery cost	Jul/Aug	4	854	1512	2366
17	weeding (complete weeding)	Sep/Oct	6	1281	0	1281
18	Cost of fertilizer (NPK @ 70 gms/plant)(Rs 24/- per kg & insecticide @ 5 gms/plant for 160 plants 800 gms @ Es. 80/- per kg)		0	0	2752	2752
19	Soil working (50cms. Radius around plants)	Oct/Nov	7	1494.50	0	1494.50
20	Application of fertilizer and insecticide	Sep/Oct	4	854	0	854
21	Fire line tracing (2m wide fire line over 400 m long)	Feb/Mar	3	640.50	0	640.50
22	Watch and ward	Apr/Mar	30	6405	0	6405
	Total		54	11529	4264	15793
3rd Year Maintenance						
23	Weeding and application of fertilizer	Aug/Sep	7	1494.50	0	1494.50
24	Cost of fertilizer(NPK @ 50 gms/plant) Rs 24/- per kg		0	0	1920	1920
25	Soil working (50cms. Radius around plants) & application of fertilizer	Oct/Nov	7	1494.50	0	1494.50
26	Fire line tracing (2m wide fire line over 400 m long) & cultural operation	Feb/Mar	3	640.50	0	640.50
27	Watch and ward	Apr/Mar	30	6405	0	6405
	Total		47	10034.50	1920	11954.50
4th Year Maintenance						
28	Fire line tracing (2m wide fire line over 400 m long) & cultural operation	Feb/Mar	3	640.50	0	640.50
29	Watch and ward	Apr/Mar	30	6405	0	6405
	Total		33	7045.50	0	7045.50
5th Year Maintenance						
30	Fire line tracing (2m wide fire line over 400 m long) & cultural operation	Feb/Mar	3	640.50	0	640.50
31	Watch and ward	Apr/Mar	30	6405	0	6405
	Total		33	7045.50	0	7045.50
6th Year Maintenance						
32	Fire line tracing (2m wide fire line over 400 m long) & cultural	Feb/Mar	3	640.50	0	640.50

	operation					
33	Watch and ward	Apr/Mar	30	6405	0	6405
	Total		33	7045.50	0	7045.50
7th Year Maintenance						
34	Fire line tracing (2m wide fire line over 400 m long) & cultural operation	Feb/Mar	3	640.50	0	640.50
35	Watch and ward	Apr/Mar	30	6405	0	6405
	Total		33	7045.50	0	7045.50
8th Year Maintenance						
36	Fire line tracing (2m wide fire line over 400 m long) & cultural operation	Feb/Mar	3	640.50	0	640.50
37	Watch and ward	Apr/Mar	30	6405	0	6405
	Total		33	7045.50	0	7045.50
9th Year Maintenance						
38	Fire line tracing (2m wide fire line over 400 m long) & cultural operation	Feb/Mar	3	640.50	0	640.50
39	Watch and ward	Apr/Mar	30	6405	0	6405
	Total		33	7045.50	0	7045.50
10th Year Maintenance						
40	Fire line tracing (2m wide fire line over 400 m long) & cultural operation	Feb/Mar	3	640.50	0	640.50
41	Watch and ward	Apr/Mar	30	6405	0	6405
	Total		33	7045.50	0	7045.50
	Grand Total		456	97356	26048	123404

ABSTRACT

Sl. No.	Year	No. Person Days	Labour cost @ Rs. 213.50/- per day	Material Cost	Total Cost (Rs.)
1	0 th year	52	11102	11739	22841
2	1 st year	72	15372	8125	23497
3	2 nd year	54	11529	4264	15793
4	3 rd year	47	10034.50	1920	11954.5
5	4 th year	33	7045.50	0	7045.50
6	5 th year	33	7045.50	0	7045.50
7	6 th year	33	7045.50	0	7045.50
8	7 th year	33	7045.50	0	7045.50
9	8 th year	33	7045.50	0	7045.50
10	9 th year	33	7045.50	0	7045.50
11	10 th year	33	7045.50	0	7045.50
	Total	456	97356	26048	123404
	Total Cost Norm per Ha.				123404
	Total Cost of plantation (4.560 Ha.)				562722.24 OR 562722.00

ADDITIONAL COST PROPOSED

1	SMC measures- LBCD structure of 2mtr span @ Rs. 10484/- for 15 structures.	157260.00
2	SMC measures- LBCD structure of 3 mtr span @ Rs.22086/- for 10 structures.	220860.00
3	a- Barbed wire fencing @ Rs. 838570.00/- over 1.527 Km = 1280496.39 b- Maintenance 5% - Rs.64025/- per annum for 10 years = 640250.00 c- Provision of Gate 2 nos. with fixing @ Rs.20,000/- per gate = 40000.00	1960746.00
	Total	2338866.00

N.B:- Unit cost of LBCD structures of different dimension along with barbed wire fencing is enclosed as Annexure- I, II & III

TOTAL COST OF PROJECT

1.	Plantation over 4.560 ha. @ Rs.123404/- per ha.	562722.00
2	Total additional cost	2338866.00
	Total	2901588.00
3	Add 20% escalation	580317.60 OR 580318.00
	Grand Total	3481906.00

(Rupees Thirty four lakh eighty one thousand nine hundred six) only.

B. PROVISION OF FUNDS AND FUND UTILIZATION

Rs.3481906.00(Rupees Thirty four lakh eighty one thousand nine hundred six)only shall be deposited by the user agency (Executive Engineer, National Highway Division, Pallahara/ Dhenkanal) on approval of the scheme to the Ad-hoc CAMPA Account and the funds will be utilized for raising of Compensatory Afforestation by the Divisional Forest Officer, Deogarh Division on allotment of funds by the Principal Chief Conservator of Forests, Odisha, Bhubaneswar.


Divisional Forest Officer,
Deogarh Division

CHAPTER- VII

DETAILS OF PROPOSED MONITORING MECHANISM

Compensatory Afforestation will be taken up in the identified site by the Range Officer, Khamar Forest Range of Deogarh Division. The Range Forest Officer, Khamar Forest Range will undertake field checks of the works undertaken at the identified site and will be cross checked by the Asst. Conservator of Forests, Deogarh Division and Divisional Forest Officer, Deogarh Division. GPS co-ordinates along with other required informations of Compensatory Afforestation will be uploaded in the e-Greenwatch Portal of NIC, MoEF, Govt. of India for the purpose of online monitoring. Annual progress of plantation involving growth of planted seedlings, survival percentage etc. will be monitored and recorded in the plantation journal by the field staffs of Khamar Forest Range and reported to the Divisional Forest Officer for necessary action. The same thing will be reported to the Regional Chief Conservator of Forests, Rourkela Circle and Addl. Principal Chief Conservator of Forests (PP&A), O/o the Pr. Chief Conservator of Forests, Odisha, Bhubaneswar and necessary corrective measures will be followed if required so.


**Divisional Forest Officer,
Deogarh Division**


Annexure- I

ESTIMATE OF COST FOR LOOSE BOULDER STRUCTURE 2 mtr span – 15 nos.

The unit cost of LBCD structure of 2 mtr span size -

Sl. No.	Item of activity	Cost per unit (Rs.)	Total unit (No/ Cum)	Total cost (in Rs.)
1.	Leveling the unshaped surface of the selected site & layout the structure foundation L.S. 1 MD.	213.50	1	213.50
2.	Excavation of foundation in hard soil within initial lead of 50 mtr. including rough dressing and breaking of clods to maximum size 5 cm. to 7 cm. laying in layer not exceeding 0.3 in depth to strengthening both side U/S approx. bund of loose boulder structure.	128.00	3.63	464.64
	Base with apron- $1 \times 3.70 \times 3.00 \times 0.30 = 3.33$			
	Wing wall- $4 \times 0.50 \times 0.50 \times 0.30 = 0.30$			
	@ Rs.12800.00 per 100 cum.			
3.	Rough stone dry packing	1133.60	8.65	9805.64
	up to GL			
	Base with apron- $1 \times 3.70 \times 3.00 \times 0.30 = 3.33$			
	Wing wall- $4 \times 0.50 \times 0.50 \times 0.30 = 0.30$			
	Above GL			
	Super structure $1 \times 2.00 \times (2.70 + 0.60)/2 \times 0.60 = 1.980$			
	Wing wall- $4 \times 0.50 \times 0.50 \times 0.50 = 0.50$			
	Side wall-			
i.	$2 \times (0.50 + 1.10)/2 \times 0.9 \times 0.5 = 0.72$			
ii.	$2 \times (0.5 + 1.10)/2 \times 1.2 \times 0.5 = 0.96$			
iii.	$2 \times 0.6 \times 0.6 \times 0.5 = 0.36$			
iv.	$2 \times 1.0 \times 0.5 \times 0.5 = 0.50$			
	@ Rs.1133.60 per cum			
	G. Total:-			10483.78 or 10484

For 15 nos. = 10484 x 15 = Rs. 157260.00


Divisional Forest Officer,
Deogarh Division.

Annexure- II

ESTIMATE OF COST FOR LOOSE BOULDER STRUCTURE 3 mtr span – 10 nos.

The unit cost of LBCD structure of 3 mtr span size -

Sl. No.	Item of activity	Cost per unit (Rs.)	Total unit (No/ Cum)	Total cost (in Rs.)
1.	Leveling the unshaped surface of the selected site & layout the structure foundation L.S. 1 MD.	213.50	1	213.50
2.	Excavation of foundation in hard soil within initial lead of 50 mtr. including rough dressing and breaking of clods to maximum size 5 cm. to 7 cm. laying in layer not exceeding 0.3 in depth to strengthening both side U/S approx. bund of loose boulder structure.	128.00	6.42	821.76
	Base with apron- $1 \times 5.10 \times 4.00 \times 0.30 = 6.12$			
	Wing wall- $4 \times 0.50 \times 0.50 \times 0.30 = 0.30$			
	@ Rs.12800.00per 100 cum.			
3.	Rough stone dry packing up to GL	1133.60	18.57	21050.95
	Base with apron- $1 \times 5.10 \times 4.00 \times 0.30 = 6.12$			
	Wing wall- $4 \times 0.50 \times 0.50 \times 0.30 = 0.30$			
	Above GL			
	Super structure – $1 \times (4.10 + 0.60)/2 \times 1.00 \times 3.0 = 7.05$			
	Wing wall- $4 \times 0.50 \times 0.50 \times 0.50 = 0.50$			
	Side wall-			
i.	$2 \times (0.50 + 1.50)/2 \times 1.5 \times 0.5 = 1.50$			
ii.	$2 \times (0.5 + 1.50)/2 \times 2.0 \times 0.5 = 2.00$			
iii.	$2 \times 0.6 \times 1.0 \times 0.5 = 0.60$			
iv.	$2 \times 1.0 \times 0.5 \times 0.5 = 0.50$			
	@ Rs.1133.60per cum			
	G. Total:-			22086.21 Or 22086

For 10 nos. = 22086.00x 10 = Rs. 220860.00


 Divisional Forest Officer,
 Deogarh Division.

Annexure- III

ESTIMATE OF COST FOR ONE KM BARBED WIRE FENCING

➤ No of pillars required per K.M.	:	500 nos.
➤ Cost of 1 pillar	:	Rs. 744.14
➤ Transportation charges	:	Rs. 244.00
➤ Cost of base fixing	:	Rs. 244.00
➤ Cost of fixing barbed wire @ 49.00	:	<u>Rs. 49.00</u>
➤ Total Cost for fixing 1 pillar	:Rs.	1281.14
➤ Cost for 500 pillars	:	Rs. 640570.00
➤ Cost of barbed wire (1 Qntls.) @ 11,000.00		
Barbed wire (5+2) strand 7500 mtrs or 18 Qntls.	:	<u>Rs. 1,98,000.00</u>
➤ Total cost for 1 Km.	:	Rs. 838570.00
➤ Total cost for fencing over 1.527Kms	:	Rs. 1280496.39
➤ Maintenance 5% - Rs.64025/- per annum		
➤ For 10 years	:	Rs. 640250.00
➤ Provision of Gate 2 nos. with fixing		
@ Rs.20,000/- per gate	:	Rs. 40,000.00
➤ Total barbed wire fencing over 1.527 KM .	:	Rs. 1960746.39
Say		Rs. 1960746.00


Divisional Forest Officer,
Deogarh Division.