

CHECK LIST

for

PROPOSAL FOR DIVERSION OF FOREST LAND FOR NON-
FORESTRY USE UNDER FOREST (CONSERVATION) ACT, 1980.

Prepared by

Principal Chief Conservator of Forests, Orissa

CHECK LIST
PROPOSAL FOR DIVERSION OF FOREST LAND FOR NON- FORESTRY
USE UNDER FOREST (CONSERVATION) ACT, 1980.

Proposal No: FP/OR/MIN/20126/2016, State Serial No: OR-051/2016 dated 22.06.2016

Title of the proposal: Proposal for diversion of 124.313 ha Non-Forest Land recorded as Forest as on/after 25th October 1980 excluding 14.748ha forest land located in the Safety Zone, located in the Mining Lease hold area over 1586.36 ha of Bolani Ores Mines(6.90 sq miles ML) of M/s SAIL, under the jurisdiction of Keonjhar Forest Division in village Balagoda, Bolani and Lintur etc. under Barbil Tahasil of Keonjhar District, Odisha.

Sl No	Details and documents to be provided	Provided or not	If not provided why?	Page Number
1	Check list of project proposal.	Provided		
2	Authorisation letter of the project authority. Position of the Authorised person in the company with the signature attested.	Provided		
3	Main application Form from Part-I prescribed in the rules under Forest (Conservation) Act, 1980 with all its columns duly filled in and signed by the Competent authority with date, place and their official seal. <small>NB--All the information of Part- I of the Form A including Item-wise Breakup of the forest area required must be given in the Form itself by expanding the columns</small>	Provided		
4	Detail note on the project. It must include the information regarding the number of village and number of persons to be benefited from the project including employment generation.	Provided		
5	Map of the project site with forests areas indicated clearly by showing forest boundaries within the proposed area; proposed land use of all areas in distinct colours in 1:50000 or any other suitable scale on original survey of India toposheet. <i>The survey details should be in the GPS Coordinates in addition to plain table survey</i> <small>NB--If the area is very small, in addition to above, an index map be submitted showing forest boundaries and a location map on a larger scale with land use of the area required duly signed by User agency Revenue authorities not below the rank of Tahasildar and DFO concerned.</small>	Provided		SOI Topo Sheet (Plate-I)
6	Lay-out plan of project site. <i>In case of linear diversions of forest land, linear map or a diagrammatic map of the project site, if it is not a linear diversion, map should be enclosed.</i>	Provided		Lease Plan showing F & NF Land (Plate-II)
7	Statement showing the details of forest area Involved. <i>Survey No. /Coup No. Compartment No. etc. and item -wise breakup of the forest area proposed for diversion duly signed by Range officer</i>	Provided		

	<i>and DFO concerned.</i>			
8	Statement giving the details of non-forest areas involved in the proposal. The land schedule and the map has to be attested by the revenue authority not below the rank of Thasildar.	Provided		
9	Certificate from the project proponent that no alternative suitable non-forest land is available for the project in question, and that this is the best location from among several alternatives considered and involving the barest minimum extent of forest land.	Provided		
10	Justification for locating the project in forest area to be given by the User agency and countersigned by DFO.	Provided		
11	Certificate for minimum use of forest land to be submitted by User Agency giving details of areas and trees involved in the alternatives examined and reasons for their rejection duly countersigned by DFO.	Provided		
12	Cost- Benefit analysis as per the guidelines issued under Forest (Conservation) Act, 1980 in Prescribed format. If not required reasons may be mentioned.	Provided		
13	No Objection Certificate from local bodies ie Aam Sabha.	Not Provided	Aam Sabha consent will be sought for during the process of right under FRA-2006	
14	Status of clearance under Environment (Protection) Act, 1986, where necessary. 1) Environment clearance and 2) Orissa State Pollution Control Board clearance	Provided		
15	Detail scheme for rehabilitation of project affected person. The scheme has agreement with the state R&R policy 2006.	Not Applicable		
16	Has the rights under Forest Rights Act 2007 has been settled? If so, the Documents from the collector and Gramsabha need to be attached.	Processing has already been initiated		
17	Undertaking by the User Agency to bear the cost of compensatory afforestation duly countersigned by the DFO.	Provided		
18	Undertaking by User Agency to pay the Net Present Value (NPV) of the forest land involved duly countersigned by the DFO.	Provided		
19	Species-wise and Girth class wise enumeration list and abstract of trees (abstract to be given at the end of the list) standing in the forest area in question	Provided		

	neatly typed or computerized and duly signed by DFO.			
20	Site inspection report of the forest area involved in the project proposal by concerned DFO or higher level Forest Officer in prescribed format.	Provided		
21	Details of non-forest land/degraded forest area identified for compensatory afforestation viz. Survey No. Compartment No., Village, Tehsil, District etc. alongwith the boundaries of adjoining areas with their land use in district colours.	Provided		
22	Detailed scheme for compensatory afforestation on identified non-forest area/degraded forest area at present wage rates duly signed by DFO and counter signed by the CF concerned. The CA scheme must include all the technical details, details of work scheduled total financial outlay and proposed monitoring mechanism.	Provided		
23	Certificate from the DFO that non-forest land selected for compensatory afforestation is in a compact block and contiguous to forest area or in close proximity of forest area and suitable from the management and protection point of view.	Provided		
24	Certificate from the competent authority regarding nonavailability of non-forest land in the State for raising compensatory afforestation, where applicable.	Not applicable		
25	Any other information/documents attached. Please specify.	-		

Date: 03/08/2016
Place: Keonjhar

User Agency
Signature and seal
(Please read SI No 2)

प्रबंधक /
जी. सी. नाईक / P. C. Naik
महोपबंधक (खनन) / General Manager (Mines)
सेक - आर एर डी - बोलाणी-अयस्क खदान
SAIL-RMD-Bolani Ores Mines
बोलाणी-758 037, केजहार, ओडिशा
Bolani-758 037, Keonjhar, Odisha

Countersigned by:-
Regional Chief Conservator of Forests)
Circle _____
Office Seal _____

Divisional Forest Officer
Forest Division
Divisional Forest Officer,
Keonjhar Division

Details for the specific diversion proposal

Irrigation

Sl No	Details and documents to be provided	Provided or not	If not provided why	Page Number
27	<p>8. Details of Irrigation Hydel</p> <p>(i) Total catchment area</p> <p>(ii) Total command area</p> <p>(iii) Full Reserved level</p> <p>(iv) High Flood level</p> <p>(v) Minimum Drawal Level.</p> <p>(vi) Break- up of area calling in catchment area of the project (forest land, cultivated land, Pasture land, human, cultivation, others)</p> <p>(vii) Area of submergence at Full Reservoir Level</p> <p>(ix) Area of submergence at 2 metre below Full Reservoir Level.</p> <p>(x) Area of submergence at 4 metre below Full Reservoir Level (For medium and major projects only).</p> <p>(xi) Area of submergence at Minimum drawal level.</p> <p>(xii) Detail Catchments Area treatment Plan, wherever required. The CAT Plan should be prepared on the basis of actual survey of areas and its classification in various categories requiring different engineering/afforestation and other treatments in phased manner.</p> <p>(xiii) Total financial outlays and details regarding availability of funds for catchment Area Treatment Plan.</p> <p>NB: Map of the above information in the appropriate scale</p>	NA		

Road railway and transmission lines

Sl No	Details and documents to be provided	Provided or not	If not provided why	Page Number
28	<p>In case of proposal regarding Road/Railway line/Transmission line, the following information/documents must be given:-</p> <p>(a) Length and width of Road/Railway line/Transmission line passing through forest and non-forests area.</p> <p>(b) Length of Road already existing constructed out of the total length involved in the project proposal.</p> <p>(c) Does this road project involve widening or black topping of existing formation?</p> <p>(d) Does it involve a new alignment in forest area?</p> <p>(c) In case of transmission line:-</p> <p>(1) Number of towers to be erected both in forests and non-forests area.</p> <p>(2) Width of the right of way for transmission.</p> <p>NB: Map of the above information in the appropriate scale</p>	NA		

HYDRO ELECTRIC PROJECT

Sl No	Details and documents to be provided	Provided or not	If not provided why	Page Number
29	<p>In case of proposal regarding Hydro Electric Projects, the following information/documents must be given:-</p> <p>(a) Component wise total area requirement.</p> <p>(b) Copy of Memorandum of Understanding.</p> <p>(c) Copy of Techno-Economic clearance.</p> <p>(d) Copy of Implementation Agreement.</p> <p>(e) NOC from I&PH Department.</p> <p>NB: Map of the above information in the appropriate scale</p>	NA		

MINING PROPOSALS

Sl No	Details and documents to be provided	Provided or not	If not provided why	Page Number
30	<p>In case of mining proposal, the following information/documents must be given:-</p> <p>(a) Certificate from the competent authority like District Mining Officer/Geologist, regarding non-availability of the same mineral/ore in the nearby non-forest area.</p> <p>(b) Estimated reserve of each mineral/ore in the forest area and non-forest area.</p> <p>(c) Total area demanded and extent of forest area involved in the proposed mining lease shown in distinct colours on relevant maps.</p> <p>(d) Proposed period of mining lease.</p> <p>(e) If it is a renewal of mining lease</p> <p style="margin-left: 20px;">a. Whether the details have been furnished about the expired lease?</p> <p style="margin-left: 20px;">b. Date of filing the renewal application.</p> <p style="margin-left: 20px;">c. Extent of forest and non forest land already covered by working and mining operation, etc.,</p> <p>(f) Minimum distance of the proposed site from Wildlife Sanctuary and National Park.</p> <p>(g) A copy of the mining plan duly approved by IBM, Nagpur be enclosed.</p> <p>(h) Detail Reclamation Plan, wherever required. It should be realistic exhaustive and complete in all respects along with relevant maps in distinct colours. It should also include the details of back fillings, afforestation and execution of such works, wherever required.</p> <p>(i) Copy of lease deed/agreement entered into with the district authorities.</p> <p>(j) The details of Safety Zone Area for the mining as per para 4.7 of the guidelines. The undertaking from the project authority to bear the cost of fencing the safety zone area and afforestation over one and half times of degraded forest area. The details of safety zone to be ascertained by the competent authority viz Indian Bureau of Mines/Department of Geology and Mining of State Government.</p> <p>NB: Map of the above information in the appropriate scale wherever it is required</p>	<p style="text-align: center;">Provided</p> <p>0.286096 Million Tonne Mn as per Approved Mining plan</p> <p style="text-align: center;">Provided</p> <p>14.11.2002 to 13.11.2022 NO</p> <p>300 km</p> <p style="text-align: center;">Provided</p> <p style="text-align: center;">Provided</p> <p style="text-align: center;">Provided</p> <p style="text-align: center;">Provided</p>		<p style="text-align: center;">Plate-VI</p> <p style="text-align: center;">Plate-IX</p> <p style="text-align: center;">Plate-VII</p> <p style="text-align: center;">Plate-V</p>

RETAIL OUT LET

Sl No	Details and documents to be provided	Provided or not	If not provided why	Page Number
31	<p>In case of a retail outlet of an oil company the following information/documents must be given:-</p> <p>(a) Copy of letter of intent issued by the Oil Company.</p> <p>(b) Site selection certificate as per Government of India guidelines. The DFO should certify the distance between two retail outlets on either side of the outlet in question.</p> <p>(c) Lay-out plan showing dimensions of proposed approach road from entry and exit with clear area calculation. The area proposed for diversion should be shown in distinct colour.</p> <p>(d) The area calculation for the curves should invariably be given in the layout plan.</p> <p>NB: Map of the above information in the appropriate scale</p>	NA		


 User Agency
 Signature and seal
 (Please read Sl No 2)

Agreed to documents

पी. सी. नाईक / P. C. Naik
 महाप्रबंधक (खनन) / General Manager (Mines)
 सेल - आर एच डी - बोलानी-अयस्क खदान
 SAIL-RMD-Bolani Ores Mines
 बोलानी-758 037, क्योड़ार, ओडीशा
 Bolani-758 037, Keonjhar, Odisha

Nodal officer
 Office of the PCCF Orissa


 Divisional Forest Officer
 Forest Division
Divisional Forest Officer,
 Keonjhar Division

With comments

Countersigned by:-
 Regional Chief Conservator of Forests)
 Circle _____
 Office Seal _____

ANNEXURES
CHECK LIST SERIAL NUMBER: - 07
STATEMENT SHOWING DETAILS OF FOREST AREA
PROPOSED FOR DIVERSION

Sl No	Division	District	Range/ Block/ village limit	Survey/ Compartment Number/ KM. Stone	Forest area proposed for Diversion (Ha) under section 2(ii)
					Non-Forest Land recorded as Forest as on 25.10.1980
1	2	3	4	5	6
1	Keonjhar Forest Division	Keonjhar	Balagoda	Plot/Khata No of Non-Forest plots recorded as forest as on 25.10.1980 is enclosed vide Annexure-20	45.042
2			Bolani		74.452
3			Limtur		4.819
Total					124.313

Date 03/08/2016

Place Keonjhar


 Divisional Forest Officer
 Forest Division
Divisional Forest Officer,
 Of ~~Keonjhar~~ **Keonjhar Division**

CHECK LIST SERIAL NUMBER: - 08
STATEMENT SHOWING DETAILS OF NON-FOREST AREA
INVOLVED IN THE DIVERSION PROPOSED

Sl No	Division	District	Range/ Block/ village limit	Survey/ Compartment Number/ KM. Stone	Non Forest area propos ed for diversi on (Ha)	Legal status of Forest area Pre 1980 and after	Remarks
1	2	3	4	5	6	7	8
1	Keonjhar Forest Division	Keonjhar	Balagoda	Plots/Khata of Non- Forest land involved in the Diversion Proposal is enclosed vide Annexure-19	121.246	Non-Forest as on 25.10.1980 & post 25.10.1980	-
2			Bolani		17.016	Non-Forest as on 25.10.1980 & post 25.10.1980	-
3			Limtur		3.752	Non-Forest as on 25.10.1980 & post 25.10.1980	-
Total					142.014		

date 03/08/2016

Place Keonjhar

Divisional Forest Officer

 Forest Division

Office seal **Divisional Forest Officer,**
Keonjhar Division

JUSTIFICATION FOR LOCATING THE PROJECT IN FOREST AREA

Bolani Ores Mines under Raw Materials Division of M/s SAIL a Govt. of India undertaking is an on-going mining project, comprising of two mining leases having area of 5.1 sq. miles and 6.9 sq. miles ML. The Mining Lease for 6.9 sq. mile is over 1586.36 ha area having all its ancillary activities operative since 1960 within three revenue villages viz. Balagoda, Bolani, Limtur village within the lease. Out of 701.122ha of non forest land in aforesaid three villages within the mining lease, 238.093 Ha area is identified as forest as on 25.10.1980 as per recent circular vide F No. 8-78/1996-FC(Pt.)dt. 10.03.2015 of MoEF & CC, Gol. However out of aforesaid 238.093ha, 113.5 ha (including safety Zone- 3.687 ha) land is already broken up on the strength of surface right since inception for mining & allied activities necessary for production from both the leases, land over an area 11.061 ha will be maintained as Safety Zone & the proposed installations over 14.5 ha (excluding safety zone) are part of existing installations integral to mining operations from both the leases which cannot be shifted to any other location due necessary physical proximity with the existing system. The present proposal is submitted for approval over 124.313 ha. Out of 238.093 ha excluding Safety Zone over 14.748 ha

Hence, locating the project inside above forest land is justified.

Date 03/08/2016

Place Keonjhar

Countersigned by:-

COUNTERSIGNED
Divisional Forest Officer
Forest Division
~~Divisional Forest Officer,~~
Keonjhar Division


(Signature of User Agency)

Office seal _____

पी. सी. नाईक / P. C. Naik
महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एच डी - बोलानी-अयस्क खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, क्योझर, ओडिशा
Bolani-758 037, Keonjhar, Odisha

CHECK LIST SERIAL NUMBER: - 11

CERTIFICATE FOR MINIMUM USE OF FOREST LAND

This is to certify that the forest area involved in the proposed diversion proposal over 124.313 ha (Excluding Safety zone) Non-Forest Land recorded as Forest as on 25.10.1980 is unavoidable and barest minimum and a statutory requirement.

Date----- 05/08/2016

Place----- Keonjhar

Countersigned by:-

COUNTERSIGNED
Divisional Forest Officer
Forest Division
Office seal
Divisional Forest Officer.
Keonjhar Division


(Signature of User Agency)

Office seal of P. C. Naik
पी. सी. नाइक / P. C. Naik
महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एस डी - बोलानी-अयस्क खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, क्यॉंझर, ओड़ीशा
Bolani-758 037, Keonjhar, Odisha

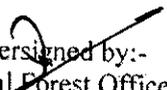
CHECK LIST SERIAL NUMBER: - 17
UNDERTAKING FOR PAYMENT OF COST OF
COMPENSTATORY AFFORESTATION

I/we Sri P.C. Naik, General Manager (Mines), Bolani Ores Mines, RMD, M/s SAIL, Power of Attorney Holder, hereby, undertake to pay the entire amount for compensatory afforestation in lieu of the forest area diverted for non-forestry use as per prevailing wage on receipt of Stage I approval.

Date 03/08/2016

Place Keonjhar


(Signature of User Agency)


Countersigned by:-
Divisional Forest Officer
Forest Division
Office seal _____

Office seal
पी. सी. नाईक / P. C. Naik
महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एच डी - बोलानी-अयस्क खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, क्योझर, ओडीशा
Bolani-758 037, Keonjhar, Odisha

CHECK LIST SERIAL NUMBER: - 18

**UNDERTAKING FOR PAYMENT OF NET PRESENT VALUE
FOREST AREA**

It is to certify that I/we Sri P.C. Naik, General Manager (Mines), Bolani Ores Mines, RMD, M/s SAIL, have applied for diversion of 124.313 ha of forest area for the purpose of Mining. We have already paid NPV of entire forest area involved in mining lease area. Further I /We, hereby undertake to pay the revised net present value (NPV) if any of the entire forest land involved in the mining lease.

Date-----03/08/2016

Place-----Keonjhar


(Signature of User Agency)

Office seal _____

COUNTERSIGNED

Countersigned by: 
Divisional Forest Officer,
Keonjhar Division
Office seal _____

पी. सी. नाईक / P. C. Naik
महाप्रबंधक (खनन) / General Manager (Mines)
सेल - आर एस डी - बोलानी-अयस्क खदान
SAIL-RMD-Bolani Ores Mines
बोलानी-758 037, क्योड़ार, ओडिशा
Bolani-758 037, Keonjhar, Odisha

CHECK LIST SERIAL NUMBER: - 20
SITE INSPECTION REPORT NOT BELOW THE RANK OF DCF
(for the forest land to be diverted under FCA)

A proposal has been received by this office from 22.06.2016 for diversion (under FCA-1980) of 124.313ha. Non-Forest land recorded as Forest as on 25.10.1980 under section 2(ii) (Excluding safety zone) for non-forestry purpose. The project envisages the use of forest land for mining & allied purpose. The site inspection of the land involved in the proposal has been done by me on date 01.07.2016 & 02.08.2016. On inspection of the site, it is found that the land required by the user agency is a Non-forest land recorded as forest as on 25.10.980 measuring 124.313 ha.

The requirement of forest land as proposed by the user agency in Col. 2 of part-I is unavoidable and is barest minimum required for the project.

Whether any rare/endangered/unique species of flora and fauna found in the area.
If so, the details thereof.

No rare or endangered species available in the applied diversion area, but elephant movement is often noticed in fringe area.

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 protected archeological / heritage site/ defense establishment or any other important monument is located in the area.

**

- (a) The user agency has not violated the provisions of Forests (Conservation) Act, 1980 and no work has been started without proper sanction.
- (b) It has been found that the user agency has violated the Forest (Conservation) Act, 1980 provisions. A detailed report as per para 1.9 of Chapter I, Part C of handbook of Forest (Conservation) Act, 1980 is attached. Specific recommendation for acceptance or otherwise of the proposal.

Place Keonjhar
Date 03/08/2016

(Signature)
Name Divisional Forest Officer
Designation Keonjhar Division
Office Seal Keonjhar Division

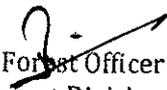
N.B * state the purpose for which the forest land is proposed to be diverted.

** out of (a) and (b) tick (✓) the option which is applicable and cross (x) the option which is not applicable.

As per letter number 2-2/2000-FC dated 16.10.2000 from Ministry of Environment & Forests, Government of India for proposal involving less than 40 ha of forest land, the site inspection report from DCF is required and for proposal involving more than 40 ha of forest land site inspection report of Conservator of Forests is required.

CHECK LIST SERIAL NUMBER: - 21
LOCATION MAP

Location Map of degraded forest Area identified for Compensatory Afforestation Coupe No: BLB- IV & BLB- V over an area of 248.626ha in Laxniposi Reserved Forest of Champua range of Keonjhar Forest Division in lieu of proposal for diversion of 124.313 ha of Non-Forest land recorded as forest as on 25.10.1980 of Bolani Ores Mines (6.90 sq. Mile ML) in Keonjhar District is enclosed vide **Plate No-VIII-A**.


Divisional Forest Officer
_____ Forest Division
Office seal _____

Divisional Forest Officer,
Keonjhar Division

CHECK LIST SERIAL NUMBER: - 22
"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for Compensatory Afforestation to be carried out in lieu of 124.313 ha of Non-Forest land recorded as forest as on 25.10.1980 to be diverted for Bolani Ores Mines, RMD-M/s SAIL in Keonjhar District.

1. Detail of degraded forest land /non-forest land:-

District Keonjhar R.F: Laxmiposi
Name of Division Keonjhar Division
Range Champua Coupe No: BLB- IV& BLB- V
Area to be afforested : 248.626 ha

2. Description of Area

i. Whether the site selected for Compensatory Afforestation is a land bank or not. No

ii. If the CA site is other than the land bank, reasons be given_

As the U/A is a Government of India ,Public Sector Undertaking, the CA land is double degraded forest Land.

iii. In case of non- forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary. N/A

iv. Soil type: Good depth of soil

v. Topography a. Hilly/Undulating /Plain: Undulating Plain

b. Slope- Steep/Medium/Gentle. Gentle

vi. Whether the area is bearing any root stock of vegetation.

The prevailing forest growth has been categorized under forest type- 5B/C1c Dry Peninsular Sal Forest and 5/DS1 Moist Mixed Scrub Deciduous Forest. The vegetation consists of Sal and its associates. The common associates of sal in this forest are *Terminalia alata*, *Anogeissus latifolia*, *Pterocarpus marsupium*, *Diospyrus melanoxylon*, *Terminalia chebula*, *Terminalia bellerica*, *Lagerstroemia parviflora*, *Buchanania lanzan*, *Lannea coromandelica*, *Dalbergia latifolia*. The common plants are *Gardenia gumifera*, *Wendlandia tinctoria*, *Embllica officinalis*, *Cassia fistula*, *Morinda tinctoria*, *Nyctanthus arborstristis*, *Holarhoena antidysenterica*, *Antidesma spp.*, *Randia spp.*, *Symplocos racemosa* and *Cleistanthus collinus*.

Plantation Model

ANR with gap Plantation model over 248.626 ha. @ 200 nos of seedlings per ha
Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial breakup is enclosed.

4. Schedule of Plantation Programme

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

i. ANR (Gap) Plantation

1 Year	2 ANR in Ha.	3 Rate / Ha	4 Total in Rs. (2 x 3)
0 th Year	248.626	3400	845328.4
1 st Year	248.626	14520	3610049.52
2 nd Year	248.626	5378	1337110.628
3 rd Year	248.626	2200	546977.2
4 th Year	248.626	600	149175.6
5 th Year	248.626	600	149175.6
6 th Year	248.626	600	149175.6
7 th Year	248.626	600	149175.6
8 th Year	248.626	600	149175.6
9 th Year	248.626	600	149175.6
10 th year	248.626	600	149175.6
		Total	7383695.00

5. Technical details

Technical details of Compensatory Afforestation Scheme are as follows:-

(a) General Details

: ANR with gap over 248.626 ha

(b) Spacement

:

(c) Species

Species to be planted:-

1. *Syzgium cumini*(Jamu)
2. *Adina cardifolia*(Kuruma)
3. *Anogeissus latifolia*(Dhaura)
4. *Accacia catechu* (Khair)
5. *Dalbergia sissoo*(Sissoo)
6. *Azadirachta indica*(Neem)
7. *Gmelina arborea* (Gambar)
8. *Terminalia belerica*(Bahada)
9. *Terminalia chebula*(Harida)
10. *Pongamia innata* (Karanja)
11. *Embllica officinalis* (Ainla)

(d) Plantation Method

: ANR with gap plantation @200 per ha

(e) Soil and Moisture Conservation

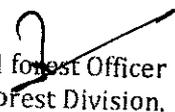
(e) Soil and Moisture Conservation
Works regeneration

: Special Soil Moisture Conservation Measures will be taken up through staggered trenches of dimension 2.5 x 0.5 x 0.5 mtr to the tune of 100 Nos. per ha and percolation pits @400 per ha and drainage line treatment through LBCD (2 mtr span-50 & 3 mtr span -25) over the identified site for Compensatory Afforestation.

(f) Protection : 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 with involvement of Laxmiposi VSS.

(g) Proposed Monitoring Mechanism : Compensatory Afforestation will be taken up in the identified site by the Range Officer, Champua Range of Keonjhar Division. The Range Forest Officer, Champua Range will undertake field checks of the works undertaken at the identified site and will be cross checked by the Asst. Conservator of Forests, (Affn.) and Divisional Forest Officer, Keonjhar 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 Champua 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 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.

(h) Any other information.


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Divisional Forest Officer,
Keonjhar Division

