

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

FOR

DOCUMENTS / INFORMATION REQUIRED FOR PROPOSAL FOR
DIVERSION OF FOREST LAND FOR NON-FORESTRY USE
UNDER FOREST (CONSERVATION) ACT, 1980
FOR STAGE-I APPROVAL

PROPOSAL No. FP/OR/IND/36705/2018, Dt. 29.10.2018 and
St. Sl. No. OR-05/2019, Dt. 29.01.2019.

TITLE OF THE PROPOSAL

Diversion Proposal of 22.671 Ha of forest land [21.626 Ha of Non-forest land recorded as forest as on 25.10.1980 + 1.045 Ha of Revenue Forest land] for Establishment of Iron Ore Grinding, De-Sliming/Beneficiation Plant & Slurry Pumping Station at Villages-Gobardhanpur, Bhagalpur, Sialijoda & Lahanda and Water Intake System at Village-Kandra along with associate facilities to produce 30 MTPA iron ore concentrates under Barbil Tahasil, Keonjhar District, Odisha.



Submitted by

M/s. JSW UTKAL STEEL LTD., BHUBANESWAR

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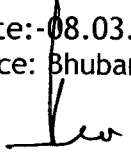
Sl No	Details and documents to be provided	Provided or not	If not provided why?	Page Number
1.1	Check list of project proposal.	Yes		
1.2	Copy of Certificate of Incorporation			
1.3	Sanction Order/Approval Order of the project.	Yes		
2	Authorisation letter of the project authority. Position of the Authorised person in the company with the signature attested.	Yes		
3	Main application Form-A, Part-I prescribed in the rules under the Forest (Conservation) Act, 1980 with all its columns duly filled in and signed by the Competent authority with date, place and their official seal. <i>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.</i>	Yes		
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.	Yes		
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 Topo sheet. <i>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.</i>	Yes		
6	Lay-out plan of project site. 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.	Yes		
7	Statement showing the details of forest area Involved. Survey No./Coup No. Compartment No. etc. and item -wise breakup of the forest area proposed for diversion duly signed by Range officer and DFO concerned.	Yes		
8.	Statement giving the details of non-forest areas Involved in the proposal. The land schedule and the map have to be attested by	Yes		


Sl No	Details and documents to be provided	Provided or not	If not provided why?	Page Number
	the revenue authority not below the rank of Tahasildar.			
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.	Yes		
10	Justification for locating the project in forest area to be given by the User agency and countersigned by DFO.	Yes		
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.	Yes		
12	Cost- Benefit analysis as per the guidelines issued under Forest (Conservation) Act, 1980 in Prescribed format. If not required reasons may be mentioned.	Yes		
13	No Objection Certificate from local bodies i.e. Gram Sabha.		
14	Status of clearance under Environment (Protection) Act, 1986 , where necessary. 1) Environment clearance and 2) Orissa SPCB	Yes		
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, 2006 has been settled? If so, the documents/certificate from the Collector and Gramsabha need to be attached.	Undertaking attached		
17	Undertaking by the User Agency to bear the cost of compensatory afforestation duly countersigned by the DFO.	Yes		
18.1	Undertaking by User Agency to pay the Net Present Value (NPV) of the forest land involved duly countersigned by the DFO.	Yes		
18.2	Undertaking by User Agency to pay the Additional Net Present Value (NPV) , if any, of the forest land involved duly countersigned by the DFO as decided at a later date as per the decision of the Supreme Court.	Yes		

Sl No	Details and documents to be provided	Provided or not	If not provided why?	Page Number
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 neatly typed or computerized and duly signed by DFO.	Yes		
20	Site inspection report of the forest area involved in the project proposal by concerned DFO or higher level Forest Officer in prescribed format.	Yes		
21	Details of non-forest land/degraded forest area identified for compensatory afforestation viz. Survey No. Compartment No., Village, Tehsil, District etc. along with the boundaries of adjoining areas with their land use in district colours.	Yes		
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.	Yes		
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 for raising plantation and from the management and protection point of view.	Yes		
24	Certificate from the competent authority regarding non availability of non-forest land in the State for raising compensatory afforestation, where applicable.	Not Applicable		
25	Any other information/documents attached. Please specify.			

Date:-08.03.2019

Place: Bhubaneswar


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


11/7/19
Divisional Forest Officer
Keonjhar Forest Division
Divisional Forest Office,
Keonjhar Division

Details for the specific diversion proposal

IRRIGATION-NOT APPLICABLE

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>		NOT applicable	

ROAD RAILWAY AND TRANSMISSION LINES- NOT APPLICABLE

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>(e) 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>		Not Applicable	

HYDRO ELECTRIC PROJECT- NOT APPLICABLE

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>		Not applicable	

**MINING PROPOSALS-
NOT APPLICABLE**

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> <ul style="list-style-type: none"> (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. (b) Estimated reserve of each mineral/ore in the forest area and non-forest area. (c) Total area demanded and extent of forest area involved in the proposed mining lease shown in distinct colours on relevant maps. (d) Proposed period of mining lease. (e) If it is a renewal of mining lease <ul style="list-style-type: none"> a. Whether the details have been furnished about the expired lease? b. Date of filing the renewal application. c. Extent of forest and non forest land already covered by working and mining operation, etc., (f) Minimum distance of the proposed site from Wildlife Sanctuary and National Park. (g) A copy of the mining plan duly approved by IBM, Nagpur be enclosed. (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. (i) Copy of lease deed/agreement entered into with the district authorities. (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>NB: Map of the above information in the appropriate scale wherever it is required</p>	Not	applicable	

RETAIL OUT LET- NOT APPLICABLE

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>		NOT applicable	

User Agency

Signature and seal

(Please read SI No 2)

Agreed to documents

Nodal officer

Office of the PCCF Orissa

Divisional Forest Officer

Divisional Forest Officer

Office seal

With comments

Countersigned by:-

Regional Chief Conservator of Forests)

Circle _____

Office Seal _____

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)	Legal status of Forest area	Remarks
1	2	3	4	5	6	7	8
1	Keonjhar	Keonjhar	Barbil Range/Gobardhanpur, Bhagalpur, Lahanda & Kandra	Village-Gobardhanpur, Bhagalpur, Lahanda & Kandra under Barbil Tahasil	22.671 Ha.	1.045 ha Revenue Forest and 21.626 ha Non-forest land recorded forest as on 25.10.1980	Detailed land schedule annexed in the FDP as Annexure- 6

Date--1.7.2019

Place--Keonjhar

COUNTERSIGNED

Satish
Divisional Forest Officer
 Keonjhar Division

Office seal _____

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 involved in the diversion proposal (ha)	Legal status of Non- Forest area Pre 1980 and after	Remarks
1	2	3	4	5	6	7	8
1	Keonjhar	Keonjhar	Barbil Range/ Gobardhan pur, Bhagalpur, Lahanda, Sialijoda & Kandra	Village – Gobardhanpur, Bhagalpur, Lahanda, Sialijoda & Kandra under Barbil Tahasil	57.834 ha	Non- Forest	Detailed land schedule annexed in the DRP as Annexure - 7

date---1.7.19

Place---Keonjhar

COUNTERSIGNED

Satish
11/7/19
Divisional Forest Officer
Keonjhar Division

Office seal_____

CHECK LIST SERIAL NUMBER: - 11

CERTIFICATE FOR MINIMUM USE OF FOREST LAND

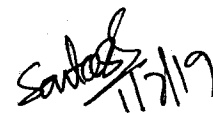
This is to certify that the Revenue forest land and non-forest land recorded as forest as on 25.10.1980 involved in the proposed diversion is unavoidable and barest minimum forest area i.e. 22.671 Ha in Barbil Tahasil, Keonjhar District under Keonjhar Forest Division is proposed for diversion.

Date:-08.03.2019
Place: Bhubaneswar



**AUTHORIZED SIGNATORY
For JSW UTKAL STEEL LTD.**

COUNTERSIGNED



**DIVISIONAL FOREST OFFICER
KEONJHAR DIVISION**

CHECK LIST SERIAL NUMBER: - 14

STATUS OF CLEARANCE UNDER ENVIRONMENT (PROTECTION) ACT, 1986
FOR THE PROJECT

The proposed project was appraised under the provisions of Environmental Impact Assessment [EIA] Notification, 2006 by the re-constituted Expert Appraisal Committee (Industry-1), MoEFCC in its 4th meeting held on 20-22nd Feb, 2019. Wherein, EAC has recommended the Terms of Reference [ToR] for under taking EIA studies. The baseline studies are under progress.

Date: -08.03.2019
Place: Bhubaneswar


AUTHORIZED SIGNATORY
For JSW UTKAL STEEL LTD.

COUNTERSIGNED


DIVISIONAL FOREST OFFICER
KEONJHAR DIVISION

CHECK LIST SERIAL NUMBER: - 17

**UNDERTAKING FOR PAYMENT OF COST OF
COMPENSTATORY AFFORESTATION IN LIEU OF THE FOREST LAND
PROPOSED FOR DIVERSION**

This is to certify that I, Shankar Pratap Singh, Director on behalf of M/s JSW Utkal Steel Ltd, have applied for diversion of 22.671 ha of forest land for Establishment of Iron Ore Grinding, De-Sliming (Beneficiation) Plant & Slurry Pumping station at village Gobardhanpur and Water intake System at village Kandra under Barbil Tahasil in Keonjhar Forest Division under Keonjhar District.


I, hereby, undertake to pay the entire amount for compensatory afforestation in lieu of the forest area diverted for 22.671 ha as per prevailing wage prior to Stage II Clearance as per demand raised by DFO, Keonjhar.



(Authorised Signature of User Agency)
For JSW UTKAL STEEL LTD
Office seal

Date-08.03.2019
Place-Bhubaneswar

COUNTERSIGNED


Divisional Forest Officer
Keonjhar Division
Keonjhar Forest Division
Office seal _____

CHECK LIST SERIAL NUMBER: - 18

UNDERTAKING FOR PAYMENT OF NET PRESENT VALUE
FOREST AREA

This is to certify that I, Shankar Pratap Singh, Director on behalf of M/s JSW Utkal Steel Ltd, have applied for diversion of 22.671 ha of forest land for Establishment of Iron Ore Grinding, De-Sliming (Beneficiation) Plant & Slurry Pumping station at village Gobardhanpur and Water intake System at village Kandra under Barbil Tahasil in Keonjhar Forest Division under Keonjhar District.


I, hereby undertake that as User Agency agree to pay the Net Present Value (NPV) and additional NPV if so determined as per the decision of the Hon'ble Supreme Court for which the present forest diversion proposal submitted herewith as per applicable rate as demand raised by DFO, Keonjhar.



(Authorised Signature of User Agency)
For JSW UTKAL STEEL LTD
Office seal

Date-08.03.2019
Place-Bhubaneswar

COUNTERSIGNED


Divisional Forest Officer
Keonjhar Division
Keonjhar Forest Division
Office seal _____

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 M/s JSW Utkal Steel Ltd. for establishment of proposed Grinding, De-sliming (Beneficiation) plant and slurry pumping station along with associate facilities at village Gobardhanpur to produce 30 MTPA Iron Ore Concentrate and Water Intake System at village Kandra under Barbil Tahasil of Keonjhar District, Odisha for diversion (under FCA-1980) of 22.671 ha Forest land, for non-forestry purpose. The project envisages the use of forest land for Beneficiation Plant purpose. The site inspection of the land involved in the proposal has been done by me on date 12.3.2019 & 24.06.2019.

On inspection of the site, it is found that the land required by the user agency is over 22.671 ha Forest land (1.045 ha Revenue Forest and 21.626 ha Non-forest land recorded forest as on 25.10.1980),

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. There is no archaeologically important monument situated in the 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) (X). 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 1.7.19

(Signature)

Name- Santosh Joshi, IFS

Designation- Divisional Forest Officer

Office Seal **Divisional Forest Officer**

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 Non-forest area identified for Compensatory Afforestation in lieu of proposal for diversion of 22.671 ha of forest land in village Podadihi under Bansapal Tahasil of Keonjhar District of Keonjhar Forest Division, BJP Forest Range Block No./Compartment No./Survey No.F45N6.


Divisional Forest Officer
Keonjhar Forest Division
Office seal
Keonjhar Division

CHECK LIST SERIAL NUMBER: - 22
“SCHEME FOR COMPENSATORY AFFORESTATION”

Detail scheme for Compensatory Afforestation to be carried out, in lieu of 22.671 ha of Forest Land under Sec 2(ii) under FC Act, 1980 to be diverted for non-forestry purpose, will be met from the identified and allotted non-forest Govt. land over 22.80 ha in Keonjhar District.

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

District- Keonjhar Village- Podadihi

Tehsil- Banspal

Name of Division Keonjhar Forest Division

Range- BJP,

Block/Compartment/Survey No. - Khata No. 67(AAA), Plot No. 329(P), 519.

Area to be afforested- 22.80 ha.

2. Description of Area

- i. Whether the site selected for Compensatory Afforestation is a land bank or not- Land Bank
- ii. If the CA site is other than the land bank, reasons be given- Not applicable
- iii. In case of non- forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary- about 8.00 Km from Raigoda PRF.
- iv. Soil type- Clay mixed sandy-loam.
- v. Topography
 - a. Hilly/Undulating /Plain- Undulating
 - b. Slope- Steep/Medium/Gentle- Medium
- vi. Whether the area is bearing any root stock of vegetation- Yes

3. Plantation Model

AR model @1600 seedlings/ ha over 10 ha and remaining 1.00 ha ANR without gap in patch- 1 and ANR model@ 600 seedling/ ha over 11.80 ha in patch- 2 identified in village Podadihi under Banspal Tahasil of District- Keonjhar.

Bald Hill Planation @1600 seedlings/ ha over 10.00 ha in patch- 1

Sl.No.	Year	No. Person Day	Labour cost @ Rs. 286.30/- per day	Material Cost	Monitoring & Supervision charge 5% of the total cost	Total Cost
1	0 th year	344	98487.20	10610.25	5454.87	114552.32
2	1 st year	253.5	72577.05	17373.00	4497.50	94447.55
3	2 nd year	114	32638.20	6512.80	1957.55	41108.55
4	3 rd year	73	20899.90	500.00	1069.99	22469.89
5	4 th year	66	18895.80	500.00	969.79	20365.59
6	5 th year	66	18895.80	500.00	969.79	20365.59
7	6 th year	66	18895.80	500.00	969.79	20365.59
8	7 th year	66	18895.80	500.00	969.79	20365.59
9	8 th year	66	18895.80	500.00	969.79	20365.59
10	9 th year	66	18895.80	500.00	969.79	20365.59
11	10 th year	66	18895.80	500.00	969.79	20365.59
Total		1246.5	356872.95	38496.05	19768.44	415137.44
Total Cost of plantation (10.00 ha.)						4151374.40

ANR without Gap Plantation (ANR) over 1.00 ha in patch- 1

Sl. No.	Item of Work	No. Person day	Labour cost @ Rs 286.30/- per day	Material cost (Rs.)	Monitoring & Supervision charge 5% of the total cost	Total cost in (Rs)
1	0th Year	9	2576.70	0	128.84	2705.54
2	1st Year	43	12310.90	500	640.54	13451.44
3	2nd Year	16	4580.80	300	244.04	5124.84
4	3rd Year	8	2290.40	300	129.52	2719.92
5	4th Year	3	858.90	100	47.94	1006.84
6	5th Year	3	858.90	100	47.94	1006.84
7	6th Year	3	858.90	100	47.94	1006.84
8	7th Year	3	858.90	100	47.94	1006.84
9	8th Year	3	858.90	100	47.94	1006.84
10	9th Year	3	858.90	100	47.94	1006.84
11	10th Year	3	858.90	100	47.94	1006.84
	Total	97	27771.1	1800	1478.52	31049.62
Total Cost Norm over 1.00 ha						31049.62

ANR model@ 600 seedling/ ha over 11.80 ha in patch- 2

SL. No	Item of Work	No. Person Day	Labour cost @ Rs 286.30/-per day	Material cost (Rs)	Monitoring & Supervision charge 5% of the total cost	Total cost in (Rs)
1	0th Year	25.5	7300.65	1300.00	430.03	9030.68
2	1 st Year	104	29779.2	4206.50	1699.08	35680.78
3	2 nd Year	31	8875.30	3362.80	611.90	12850.00
4	3 rd Year	14	2290.4	0	200.41	4208.61
5	4 th Year	3	858.90	0	42.95	901.85
6	5 th Year	3	858.90	0	42.95	901.85
7	6 th Year	3	858.90	0	42.95	901.85
8	7 th Year	3	858.90	0	42.95	901.85
9	8 th Year	3	858.90	0	42.95	901.85
10	9 th Year	3	858.90	0	42.95	901.85
11	10 th Year	3	858.90	0	42.95	901.85
TOTAL		195.5	54257.85	8869.3	3242.07	68083.02
Total Cost of plantation (11.80 ha.)						803379.63

Copy of the Compensatory Afforestation Scheme/Model showing component wise physical and financial breakup is enclosed as **Annexure- 19**.

4. Schedule of Plantation Programme

Detail of year wise break-up of requirements of funds is enclosed as **Annexure- 19**.

5. Technical details

Technical details of Compensatory Afforestation Scheme are as follows:-

(a) General Details : Plantation over 22.80 ha,

- (b) Spacement : (i) 2.5 mtr x 2.5 mtr in 10.00 ha
(ii) ANR model in 11.80 ha
- (c) Species
1. *Syzizium cumini* (Jamu)
 2. *Adina cardifolia* (Kuruma)
 3. *Anogeissus latifolia* (Dhaura)
 4. *Dalbergia sissoo* (Sissoo)
 5. *Azadirachta indica* (Neem)
 6. *Gmelina arborea* (Gambar)
 7. *Pongamia pinnata* (Karanja)
 8. *Emblica officinalis* (Amla)
 9. *Artocarpus integrifolia* (Panasa)
- (d) Plantation Method : Bald Hill Plantation @1600 seedlings/ ha over 10 ha, and remaining 1.00 ha ANR without gap plantation in patch- 1, and ANR model@ 600 seedling/ ha over 11.80 ha in patch- 2
- (e) Soil and Moisture Conservation Works regeneration : LBCD structure along with staggered trenches
- (f) Protection : Watch and ward and Barbed wire fencing

(g) Proposed Monitoring Mechanism:

Compensatory Afforestation will be taken up in the identified site by the Range Officer, BJP Range of Keonjhar Division. The Range Forest Officer, BJP Range will undertake field checks of the works undertaken at the identified site and will be cross checked by the Asst. Conservator of Forests and Divisional Forest Officer, Keonjhar Division. DGPS/ GPS co-ordinates along with other required informations of Compensatory Afforestation will be uploaded in the e-Green watch 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 BJP 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.


17/11/19
Divisional forest Officer
Keonjhar Division.

CHECK LIST SERIAL NUMBER: - 23

"LAND SUITABILITY CERTIFICATE BY DFO CONCERNED"

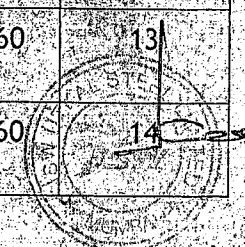
This is to certify that 22.80 ha land bearing Khata No. 67(AAA), Plot No. 329(P), 519 of Village Podadihi, Tahsil- Banspal, District- Keonjhar identified for Compensatory Afforestation is suitable for plantation from management point of view and is free from all sorts of encumbrances and encroachment.

Place Keonjhar
Date 1.7.19


11/7/19
(Divisional Forest Officer)
Keonjhar Forest Division
Office Seal
Divisional Forest Officer
Keonjhar Division

LIST OF PLATES

Sl. No	Details of Maps and Plates Annexed	Scale	Plate Number
1	<u>COMPOSITE SOI TOPO MAPS F45H8 & F45H12</u> depicting the project areas	1:50,000	1
2	<u>SOI TOPO MAP F45H8</u> depicting the project areas- Iron Ore Grinding, De-Sliming [Beneficiation] Plant & Slurry Pumping Station	1:50,000	2
3	<u>SOI TOPO MAP F45H12</u> depicting the project area- Water Intake System	1:50,000	3
4	<u>Index Map Showing the Project Boundary</u> For Installation of Iron Ore Grinding, De-Sliming Plant [Beneficiation] & Slurry Pumping Station at Bhagalpur, Gobardhanpur, Sialijoda & Lahanda and Water Intake System at Kandra duly authenticated by the concerned Revenue Authority and Forest Authority	1:9,000	4
5	<u>CADASTRAL MAPS Showing the Project Boundary- Village Bhagalpur</u> duly authenticated by the concerned Revenue Authority and Forest Authority	1:3,960	5
6	<u>CADASTRAL MAPS Showing the Project Boundary- Village Gobardhanpur</u> duly authenticated by the concerned Revenue Authority and Forest Authority	1:3,960	6
7	<u>CADASTRAL MAPS Showing the Project Boundary- Village Sialijoda</u> duly authenticated by the concerned Revenue Authority and Forest Authority	1:3,960	7
8	<u>CADASTRAL MAPS Showing the Project Boundary- Village Lahanda</u> duly authenticated by the concerned Revenue Authority and Forest Authority	1:3,960	8
9	<u>CADASTRAL MAPS Showing the Project Boundary- Village Kandra</u> duly authenticated by the concerned Revenue Authority and Forest Authority	1:3,960	9
10	<u>DGPS Surveyed Index map</u> showing Forest Land Proposed For Diversion vetted by ORSAC & authenticated by field functionaries of Forest & Revenue Dept.	1:10,000	10
11	DGPS Surveyed maps showing Forest Land Proposed For Diversion falling under <u>Bhagalpur Village</u> .	1:4,000	11
12	DGPS Surveyed maps showing Forest Land Proposed For Diversion falling under <u>Gobardhanpur Village</u> .	1:3,960	12
13	DGPS Surveyed maps showing Forest Land Proposed For Diversion falling under <u>Lahanda Village</u> .	1:3,960	13
14	DGPS Surveyed maps showing Forest Land Proposed For Diversion falling under <u>Kandra Village</u> .	1:3,960	14



Sl. No	Details of Maps and Plates Annexed	Scale	Plate Number
15	<u>Superimposed route map on forest cover map</u> showing RF/National Park/PRF/Sanctuary/PF etc. with mention of category of forest (Natural Forest/Plantation), Density (Open/Moderately dense/Dense) and species in the map.	1:30 KM	15
16	<u>Index Map Showing Proposed site for Compensatory Afforestation</u> over an area of 22.80 Ha in Village Podadihi under Banspal - Tahasil, Keonjhar District	1:6,000	16
17	<u>Cadastral Map</u> showing Proposed site for Compensatory Afforestation over an Area of 11.80 Ha in Village Podadihi [Sheet No.-1] under Banspal - Tahasil	1:3,960	17
18	<u>Cadastral Map</u> showing Proposed site for Compensatory Afforestation over an Area of 11.00 Ha in Village Podadihi [Sheet No.-4] under Banspal - Tahasil	1:3,960	18
	TOTAL		18

