


Full Title of the Project: Diversion of 8.46 ha. of forest land in favour of Dy. Chief Engineer/Civil/GGN,National Capital Region Transport Corporation for developing a corridor of Regional Rapid transport system(RRTS) and implementation of RRTS route from Sarai Kalan khan(New Delhi) to Shajhanpur-Neemrana-Behror(SNB), under forest Division and District, Rewari.
File No. FP/HR/RAIL/120165/2021

Date of Proposal: 20-01-2021

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Details Note:-

A Proposal has been received by this office from Dy. Chief Engineer/Civil/GGN,National Capital Region Transport Corporation on dt. 04-03-2021 diversion (under FCA-1980) of **8.46 ha.** of forest land for non-forestry purpose. The project envisages the use of forest land for developing a corridor of Regional Rapid transport system(RRTS) & implementation of RRTS route from National Highway No.8(Now NH-48) km 68-69 L/Side, Km 76-77 L& R Side, km 95-96 L/Side and 92-97 R/Side, under forest Division and District, Rewari. Site inspection of the land involved in the proposal has been done by me on dated 06-04-2021.


Divisional Forest Officer,
Rewari

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CHECK LIST SERIAL NUMBER :-07

STATEMENT SHOWING DETAILS OF FOREST AREA PROPOSED FOR DIVERSION

Sr. No.	District	Division	Range/ Tehsil/ Village	Khasra /Survey of Compartment Number of Km. Stone	Forest Area proposed for Diversion (Ha)	Legal status of Forest Area	Remarks
1	2	3	4	5	6	7	8
1	Rewari	Rewari	Rewari and Bawal	For developing a corridor of Regional Rapid transport system (RRTS) & implementation of RRTS route from National Highway No.8 (Now NH-48) km 68-69 L/Side, Km 76-77 L& R Side, km 95-96 L/Side and 92-97 R/Side, under forest Division and District, Rewari	8.46 ha.	Protected Forest	
			Rewari and Bawal.				
			Khaliawas, Asalwas, Suthana, Jaliawas, Chirahara, Rudh				

Place
Date

Divisional Forest Officers
Divisional Forest Officer
Forest Division
Office Seal **Rewari**

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CHECK LIST SERIAL NUMBER :-16

SITE INSPECTION REPORT NOT BELOW THE RANK OF DCF

(For the Forest land to be diverted under FCA)

- 1 A Proposal has been received by this office from Dy. Chief Engineer/Civil/GGN, National Capital Region Transport Corporation on dt. 04-03-2021 diversion (under FCA-1980) of **8.46 ha.** of forest land for non-forestry purpose. The project envisages the use of forest land for developing a corridor of Regional Rapid transport system(RRTS) & implementation of RRTS route from National Highway No.8(Now NH-48) km 68-69 L/Side, Km 76-77 L& R Side, km 95-96 L/Side and 92-97 R/Side, under forest Division and District, Rewari. Site inspection of the land involved in the proposal has been done by me on dated 06-04-2021.
- 2 On inspection of the site, it is found that the land required by the user agency is a protected forest measuring **8.46 ha.**
- 3 The requirement of forest land as proposed by the user agency in Col. 2 Part -1 is unavoidable and is barest minimum required for the project.
- 4 Whether any rare/endangered/unique species of flora and fauna found in the area, if so the details thereof - None.
- 5 Whether any protected archeological/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. Permission obtain from competent authority. N.A
- 6 **(a) The user agency has not violated the provisions of Forest (Conservation) Act, 1980 and no work has been started without proper sanction.**
(b) It has been found that the user agency has violated the Indian Forest Act, 1927 against user agency.
A detailed report as per para 1.9 of Chapter 1, C of Handbook of Forest (Conservation) Act, 1980 is attached.

(Signature)

Place

Date.....

Name.....
Designation.....
Office Seal.....
Divisional Forest Officer
Rewari

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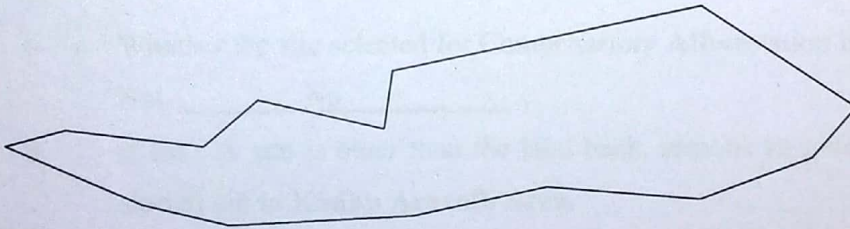
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LOCATION MAP

Location Map of Non-Forest/Degraded Forest Area identified for developing a corridor of Regional Rapid transport system (RRTS) & implementation of RRTS route from National Highway No. 8 (Now NH-48) km 68-69 L/Side, Km 76-77 L & R Side, km 95-96 L/Side and 92-97 R/Side, under forest Division and District, Rewari.

Village: Kadhu Tehsil Rewari District Rewari Forest Division Rewari Forest Range, Rewari
Block No. / Compartment No. / Survey No.: Kadhu Aravalli Area.

- 1) Location Map of Kadhu Aravalli Area.-:



Area to be taken for Compensatory Afforestation.

Divisional Forest Officer
Rewari
Rewari

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"SCHEME FOR COMPENSATORY AFFORESTATION"

Name of the forest/reach to be diverted for developing a corridor of Regional Rapid transport system (RRTS) & implementation of RRTS route from National Highway No.8 (Now NH-48) km 68-69 L/Side, Km 76-77 L & R Side, km 95-96 L/Side and 92-97 R/Side, under forest Division and District, Rewari.

Forest Area = 8.46 ha.

Details of degraded forest land / non-forest land:-

Division : Rewari	District Rewari	Range: Rewari	Tehsil : Rewari
Village: Kadhu.	CA Site Name :	Kadhu Aravalli Area (18512 Plants)	
GPS: 28°13'10.87" N	76°29'35.25"E	28°13'4.91" N	76°29'23.00"E
28°12'45.88" N	76°29'7.63"E	28°12'41.62" N	76°29'6.90"E

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 :- Plantation will be carried out in **Kadhu Aravalli Area.**
- iii. In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary:- CA will be carried out in **Kadhu Aravalli Area.**
- iv. Soil type :- Foot hill & Rocky with very little top Soil.
- v. Topography :-
 - A. **Hilly/Undulating/Plain**
 - B. **Slope:-Gentle Slope**
- Whether the area is bearing any root stock of vegetation :- Rootstock at some places is available; the area has degraded vegetation of Aravallis and bushes of Prosopis juliflora & dhok.

2- Planatation Model :-

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Pits of 45cm x 45 cm x 45cm along with plants of 3 feet height of 20x30 cum size P.Bags will be planted during raining season. Saplings of Beri, Chamrod, Burna, Inderjo,Bar, Pipal, Neem, Pilkhan, Imlu etc will be planted with scapement 3m x 3m in Strip manner.

a. Climate and edaphic conditions:

The climatic conditions are also most harsh in the Aravalli region and the annual average rainfall in the region is 400-500 mm only. The site conditions are extremely degraded with shallow depth of soil and prone to soil erosion. So, to ensure survival of plantations raised under CA, it is prescribed that the plantation scheme should be site specific and it should not be generalized. It is also not possible to do watering in the hills, therefore, site specific species plantation with advance trench work and seeding of Aravalli species and closure of the area may give better results than any other method.

b. Closure of the area:

The existing wage rate for un-skilled labour in District Rewari is Rs. 363.78/- per day during the year 2020-21. Since the proposed Compensatory Afforestation will be carried out in the year to come (say start year will be 2021-22, as Steering Committee Meeting for 2020-21 has already been held and agenda has been approved), so, the cost estimation has been done considering 10% enhanced wage rate every year starting from the year 2021-2022 as per details given under to avoid any kind of funds hardship in future. The cost of CA for 1100 plants per hac. (planting to be done in 48.4 hac. physical area) The detailed cost norms and year wise schedule of works proposed under the scheme is closed as **Annexure-II**.

3 Schedule of Plantation Programme:-

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

The Plantation is calculated at **3m X 3 m spacing** as at the wages rate of Rs.363.78 /- per day as under with 10% enhanced wage rate every year starting from the year 2021-2022 as per details given under to avoid any kind of funds hardship in future:-

Sr. No.	Year	Cost norm per plant
1	1 st Year Plantation	159.35/- Per Plant
2	2 nd Year Maintenance	101.96/- Per Plant
3	3 rd Year Maintenance	98.59/- Per Plant
4	4 th Year Maintenance	57.16/- Per Plant
5	5 th Year Maintenance	62.72/- Per Plant
6	6 th Year Maintenance	68.93/- Per Plant
7	7 th Year Maintenance	75.71/- Per Plant
8	8 th Year Maintenance	83.13/- Per Plant
9	9 th Year Maintenance	91.25/- Per Plant
10	10 th Year Maintenance	99.50/- Per Plant
	Total Cost.	898.30 /- Per Plant

Area to be diverted: **8.46 Ha.**

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Area to be planted (One/two/ten times the diverted area) = 16.92 ha.

No. of trees to be felled= 996

No. of Plants to be damaged=326 u/s and 470 Plants

Number of Plants to be planted (@ 1100 Plant per Hec.) = **18512 Plants will be planted**

A	Net Present Value of Forest Land to be diverted	8.46	Rs. 8.87 Lacs/Ha.	7504020
B	Compensatory Afforestation Charges	No. of Plants		
1	1st Year Plantation	16920	159.35/- Per Plant	2696202
2	2nd Year Plantation	16920	101.96/- Per Plant	1725163.2
3	3rd Year Plantation	16920	98.59/- Per Plant	1668142.8
4	4th Year Plantation	16920	57.16/- Per Plant	967147.2
5	5th Year Plantation	16920	62.72/- Per Plant	1061222.4
6	6th Year Plantation	16920	68.93/- Per Plant	1166295.6
7	7th Year Plantation	16920	75.71/- Per Plant	1281013.2
8	8th Year Plantation	16920	83.13/- Per Plant	1406559.6
9	9th Year Plantation	16920	91.25/- Per Plant	1543950
10	10th Year Plantation	16920	99.50/- Per Plant	1683540
	Total Charges			15199236
	Supervisory/Overhead/Miscellaneous Charges		10% On the total CA Charges	1519923.6
	Total Compensatory Afforestation will be deposited in CAMPA Fund			16719159.6
C	Additional Compensatory Afforestation Charges	No. of Plants	Cost Per plant	
1	1st Year Plantation	1592	159.35/- Per Plant	253685.2
2	2nd Year Plantation	1592	101.96/- Per Plant	162320.32
3	3rd Year Plantation	1592	98.59/- Per Plant	156955.28
4	4th Year Plantation	1592	57.16/- Per Plant	90998.72
5	5th Year Plantation	1592	62.72/- Per Plant	99850.24
6	6th Year Plantation	1592	68.93/- Per Plant	109736.56
7	7th Year Plantation	1592	75.71/- Per Plant	120530.32
8	8th Year Plantation	1592	83.13/- Per Plant	132342.96

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9	9th Year Plantation	1592	91.25/- Per Plant	145270
10	10th Year Plantation	1592	99.50/- Per Plant	158404
	Total Charges			1430093.6
D	Barbed Wire fencing	1.5 RKM	200000/- Per RKM	300000
E	Construction of Loose Stone Wall 1.25 m x 1.25 m x 0.75 m x 1.25 (top width, 1.25m base width)	156.25*836.68= 130731.3	15 ha.	1960969.5
F	Felling Charges Volume	198.03	Rs.1200/- per m3	237636
G	Exigency Charges 30% of Total CA (Entry Point activities etc)			5015747.88
TOTAL (A+B+C+D+E+F+G)				33167626.58 Or Say 33167627

5. Technical details:

a. General details:

Aravallis hills are the one of the oldest mountain range on earth and are the prominent landforms shaping the west-Indian climate and biodiversity. Aravallis with its lush green forests used to act as green barrier and acted as an effective shield against desertification. The forests of Aravalli range in Haryana are now the most degraded forests in India, most of the indigenous plant species have disappeared. The rapid deforestation and developmental activities are destroying the unique landscape that requires immediate conservation attention. These vulnerable areas used to be biologically rich and supported several unique elements of flora and fauna.

B.Species:

Since the site proposed for CA is a hilly track of Aravalli region/foot hills, so indigenous species belonging to Aravalli region/arid regions will be given priority. Ronj khairi, Holoptelia, Dhok, Beri, Chamrod, Burna, inderjo, Bar, Pipal, Neem, Pilkhan, Imli etc will be planted.

c. Protection and silvicultural operations:

There is lot of pressure on the site. Cutting of trees (even the indigenous trees). grazing of cattle, goats and sheep is in practice at site and these are the main reasons for degradation of area. Therefore, one mali-cum-protection watcher will be engaged for every Five and half hectare (5500 plants) of area during first five year and after five year, one mali on every 10 ha. for protection and silvicultural operations in the area. The employment will be given to local people of the villages and the payments will be ensured through Biodiversity Management Committees or Village Forest management Committees to these protection watchers.

d. Proposed Monitoring Mechanism:

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At Division and Circle level, DFO and Conservator will keep proper monitoring on the sites. Forest department is also having its Monitoring & Evaluation (M&E) Wing for monitoring the success of plantations. Conservator, FCA-cum Nodal Officer, Panchkula and the officers of Northern Regional Office of MoEF are the top agencies which will also be reviewing the success of plantations besides other senior officers of Forest Department.

6. Justification for the Cost of Site Specific Scheme:

There is great need to protect the fragile ecosystem of Aravallis in National Capital Region for the environmental sustainability of the region. Since only 18512 Plants will be planted no extra machinery charges are included.

Divisional Forest Officer,
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DETAILED REPORT ON VIOLATION OF PROVISIONS OF FOREST ACTS

- a) The extent (in hectare) of forest land broken/encroached and the number of trees illicitly felled: NO
- b) The name & designations of the officials/persons who are prima-facie responsible for the contravention of the provisions of the Act, supported by requisite documents: NO
- c) In case, it is not possible to fix the responsibility for commission/omission of any action leading to violation of the provisions of the Act, full explanation with relevant supporting documents to be appended: NO
- d) Details of action taken by the DFO against illicit felling/encroachment/illegal mining, etc., under the provisions of IFA-1927/PLPA-1900/ other State Forest Acts, etc.: NO

Place:.....

Dated:.....

Divisional Forest Officer
Divisional Forest Officer
Forest Division
Rewari
Office Seal.....

Counter signed by:-

Conservator of Forests

Office Seal_____

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"LAND SUITABILITY CERTIFICATE BY DFO CONCERNED"

This is to certify that **18.512 ha.** land bearing Survey No. /Compartment No. Mamaria Aasampur Aravalli Area, Khol Aravalli Area & Ahrod Aravalli Area in District Rewari identified for Compensatory Afforestation is suitable for plantation from management point of view and is free from all sorts of encumbrances and encroachment.

Place

Date

(Divisional Forest Officer)
Divisional Forest Officer
..... Forest Division
Rewari
Office Seal.....