

वन विभाग, हरियाणा सरकार
कार्यालय उप वन संरक्षक, गुरुग्राम
वन परिसर, सोहना रोड, नजदीक न्यायालय परिसर, गुरुग्राम, दूरभाष-0124-2322057

क्रमांक: 1235-C

दिनांक: 10/12/2021

सेवा में,

अति० प्रधान मुख्य वन संरक्षक (एफ०सी०ए०),
कार्यालय प्रधान मुख्य वन संरक्षक,
सी-18, वन भवन, सैक्टर-6,
पंचकूला, हरियाणा।

विषय:- **Diversion of 0.014 hac. of forest land for road access to the Affordable Residential plotted colony (under Deen Dayal Jan Aawas Yojna), along Sohna Daula road Km 1-2 L&R / side at village Sohna, under Forest Division & Distt. Gurugram. FP/HR/APPROACH/41473/2019.**

सन्दर्भ:- आपका पत्र क्रमांक प्रशा-डी-तीन-9995/5276-77 दिनांक 07.12.2021

उपरोक्त विषय के सम्बन्ध में सन्दर्भांकित पत्र की मद संख्या 1 के सन्दर्भ में संशोधित प्रतिपूर्ति पौधारोपण स्कीम बनाकर पत्र के साथ भेजी जाती है। प्रस्ताव में 3 वृक्ष बाधित है जिसकी वाल्यूम $0.69m^3$ है तथा कोई पौधा बाधित नहीं है। इसके अतिरिक्त मद संख्या 2 के सन्दर्भ में प्रयोक्ता ऐजेंसी द्वारा इस कार्यालय को लिखा गया है कि उन्हें Environmental Clearance की आवश्यकता नहीं है। प्रयोक्ता ऐजेंसी द्वारा हरियाणा प्रदूषण नियंत्रण बोर्ड से प्राप्त पत्र की प्रति इस कार्यालय को दी गई है। अतः संशोधित प्रतिपूर्ति पौधारोपण स्कीम तथा प्रयोक्ता ऐजेंसी से प्राप्त दस्तावेज पत्र के साथ आगामी कार्यवाही हेतु भेजे जाते हैं।

संलग्न/उपरोक्त

उप वन संरक्षक, गुरुग्राम।
9/12/2021

पृ० क्रमांक/ 1236-C

दिनांक/ 10/12/2021

एक प्रति मुख्य वन संरक्षक, दक्षिणी परिमण्डल, गुरुग्राम को सूचनार्थ प्रेषित है।

उप वन संरक्षक, गुरुग्राम।
9/12/2021

Full Title of the Project: Diversion of 0.014 hac. of forest land for road access to the Affordable Residential plotted colony (under Deen Dayal Jan Aawas Yojna), along Sohna Daula road Km 1-2 L&R / side at village Sohna, under Forest Division & Distt. Gurugram.

File No. :

FP/HR/Approach/41473/2019

Date of Proposal: -----

CHECK LIST SERIAL NUMBER: - 18

"REVISED SCHEME FOR COMPENSATORY AFFORESTATION

Detail scheme for Compensatory Afforestation in lieu of proposal for diversion of **0.014 hec** of forest land road access to the Affordable Residential plotted colony (under Deen Dayal Jan Aawas Yojna), along Sohna Daula road Km 1-2 L&R / side, Under Forest Division and Distt. Gurugram..

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

District: **-Gurugram**

Tehsil: **Gurugram**

Forest Division: **- Gurugram**

Range: **Sohna**

Block/Compt/Survey No.:-

Damdama Section 4&5 of PLPA 1900

Area to be afforested:

100 Plants will be planted.

GPS Reading:- **N 28°18'26.19." E 77°7'32.08" N 28°18'25.74" E 77°7'33.06"**

2. Description of the Area:

- **Whether the site selected for Compensatory Afforestation is a land bank (Yes or No):** No, land bank for CA will be created in areas notified under Sec 4 & 5 of PLPA 1900, Aravalli Plantation because these areas have been considered as forests by Hon'ble Supreme Court and protection and restoration of these degraded areas now is the responsibility of the Department. The ownership of land is with Gram Panchayats.
- **If the CA site is other than the land bank, reasons are given:** There is no land bank in District Gurugram. Plantation will be carried out in degraded forest area closed under Sec 4 & 5 of PLPA 1900 and areas covered under Aravalli Project Plantation. These areas have been considered as forest for the purpose of Forest Conservation Act as per orders of Hon'ble Supreme Court. A Land Bank will be created on degraded areas of Aravallis in Gurugram Forest Division.
- **In case of Non-Forest area identified for CA, then what is the distance of CA site from adjoining forest boundary:** There is continuous patch of Aravallis in nearby villages which are also forest as per orders of Hon'ble Supreme Court and degraded forest land will be restored by carrying out Forest Landscape Restoration activities under CA for future FCA proposal also. The Compensatory Afforestation will be carried out on degraded forest area of Aravalli Hills in Gurugram Division which is covered under Sec 4 & 5 of PLPA 1900 of village Damdama of Tehsil Sohna and the land has been considered as forest for the purposes of FCA by Hon'ble Supreme Court.
- **Soil type:** Mostly Loamy soil with house boulders & sand stone on Aravalli Hill and sandy loam to sandy in foothills.
- **Topography:**
 - c. Hilly/Undulating/Plain :Hilly
 - d. Slope: Steep/Medium/Gentle : 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.

3. **Plantation Model:-**

Trench cum pit method :- Pits of 45cm x 45 cm x 45cm along with trench of size 2m x 0.45m x 0.45m will be dug over the whole area plants of 3 feet height of 20x30 cum size P.Bags will be planted during raining season. Trench will be on the upper side of pit on contours. Saplings of Ronj khairi, Holoptelia, Dhok, Bar, Pipal, Neem, Pilkhan, Imli etc will be planted with escapement 4m x 5m in staggered manner in contours so as to conserve all the water flowing out there.

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. Survey & Demarcation and Closure of the area:

There is lot of biotic pressure in the area and the land near habitations is under encroachment. Therefore, protection of the area will be upmost requirement. The proposed area is closed under Sec 4 & 5 of PLPA 1900 and also covered under Aravalli. Project will be demarcated after DGPS survey.

The existing wage rate for un-skilled labour in District Gurugram is Rs. 373.21/- per day during the year 2019-20. 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 1000 plants per hac. (planting to be done in 2 hac. physical area) The detailed cost norms and year wise schedule of works proposed under the scheme has already been sent.

4. **Schedule of Plantation Programme:-**

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

The Plantation is calculated at 4m X 5 m spacing as at the wages rate of Rs.373.21/- 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	454.4/- Per Plant
2	2 nd Year Maintenance	152.11/- Per Plant
3	3 rd Year Maintenance	87.29/- Per Plant
4	4 th Year Maintenance	95.83/- Per Plant
5	5 th Year Maintenance	105.22/- Per Plant
6	6 th Year Maintenance	115.56/- Per Plant
7	7 th Year Maintenance	126.91/- Per Plant
8	8 th Year Maintenance	139.41/- Per Plant
9	9 th Year Maintenance	153.17/- Per Plant
10	10 th Year Maintenance	168.29/- Per Plant
	Total Cost.	1598.19/-

Area to be diverted: **0.014 hac.**

Area to be planted (One/two/ten times the diverted area) = **100 plants will be planted**

No. of trees to be felled= **3**

No. of Plants to be damaged= **Nil**

Number of Plants to be planted (@ 1000 Plant per Hec.) = **100 plants will be planted**

Sr. No.	Description	Total Area	Rate	Total Amount (Rs.)
A	Net Present Value of Forest Land to be diverted	0.014	Rs. 8.87 Lacs/Ha.	12418.00
	Compensatory Afforestation Charges	No. of Plants		
1	1st Year Plantation	100	454.4/- Per Plant	45440
2	2nd Year Plantation	100	152.11/- Per Plant	15211
3	3rd Year Plantation	100	87.29/- Per Plant	8729
4	4th Year Plantation	100	95.83/- Per Plant	9583
5	5th Year Plantation	100	105.22/- Per Plant	10522
6	6th Year Plantation	100	115.56/- Per Plant	11556
7	7th Year Plantation	100	126.91/- Per Plant	12691
8	8th Year Plantation	100	139.41/- Per Plant	13941
9	9th Year Plantation	100	153.17/- Per Plant	15317
10	10th Year Plantation	100	168.29/- Per Plant	16829
B	Total Charges of (B Above)			159819.00
C	No barbed wire charges will be charged as loose stone wall has been included in cost norms.	0	Rs. 200000/- Per RKM	0.00
D	Supervisory/ Overhead/ Miscellaneous Charges		10% On the total CA Charges	15981.90
E	Soil & Moisture Conservation Charges		30% of Total CA	47945.70
F	Felling Charges Volume=	0.69	Rs.1200/- per m3	828.00
G	Exigency Charges 3% of the Total Cost of (A+B+C+D+E+F)			7109.78
TOTAL (A+B+C+D+E+F+G)				244102.38

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. Spacing:

Pits of 45cm x 45cm along with trench of size 2m x 0.45m x 0.45m will be dug over the whole area plants of 3 feet height of 20x30 cum size P.Bags will be planted during rainy season.

c. 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, Dhor, Bar, Pipal, Neem, Pilkhan, Imli etc will be planted.

d. Plantation Method:

Scattered Contour Trench plantation or pit plantation on the availability of space on hilly terrain will be carried out with Aravalli species in whole are in order to restore the whole area closed with boundary wall.

e. Soil and Moisture Conservation Works:

Soil and moisture conservation works will be carried out along with plantation on pattern of Catchment Area Treatment. Contour trenching will be done to check soil erosion and conserve the run off.. Check dam/vegetative barriers will be created in the nalas and valleys. Proposed cost will be as per norms of 30% of cost of CA.

f. Protection and silvicultural operations:

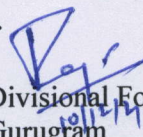
There is lot of pressure on the site. Cutting of trees (even the indigenous trees). grazing of cattle, goats and sheep is in practice at site and these are the main reasons for degradation of area. Therefore, one mali-cum-protection watcher will be engaged for every two and half hectare (2500 plants) of area during first five year and after five year, one mali on every 5 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.

g. Proposed Monitoring Mechanism:

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. Only 100 plants will be planted.


Divisional Forests Officer
Gurugram

Date.....

Place :- Gurugram