

कार्यालय
प्रधान मुख्य वन संरक्षक, हरियाणा,
वन विभाग, हरियाणा सरकार,

सी-18, वन भवन, सैक्टर 6, पंचकुला, दूरभाष/फैक्स +91 172 2563988, 2563861, E-mail: cffcpanchkula@gmail.com

क्रमांक : प्रशा-डी-तीन-10081 / 6701
सेवा में

दिनांक : 23-2-2022

क्षेत्रीय अधिकारी,
भारत सरकार, पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय,
एकीकृत क्षेत्रीय कार्यालय,
चण्डीगढ़ ।

विषय : Diversion of 0.7570 ha. of forest land for laying of 600mm/450mm DI pipeline for Raw Water from (Gurugram District Boundary) Hari Nagar Dooma to Musaidpur water Works & Musaidpur water works to Mehchana water works, under forest division and District Gurugram , Haryana.

Online Proposal No. FP/HR/Water/124769/2021

संदर्भ: आपका पत्र क्रमांक 9-HRB188/2021-CHA दिनांक 25.01.2022

उपरोक्त विषय पर संदर्भांकित पत्र द्वारा जारी हिदायतों अनुसार वन मण्डल अधिकारी, गुरुग्राम के पत्र क्रमांक 2853-जी दिनांक 04.02.2022 द्वारा भेजी गई संशोधित सी0ए0 स्कीम की प्रति संलग्न है तथा ऑनलाईन पार्ट-11 में भी अपलोड कर दी गई है।

कृपया प्रस्ताव में स्टेज-1 स्वीकृति बारे आगामी कार्यवाही करने का कष्ट करें ।

संलग्न/उपरोक्त ।

अतिरिक्त प्रधान मुख्य वन संरक्षक (एफ0सी0ए0)
हरियाणा, पंचकुला ।

23/2/2022

क्रमांक: 2853-61

दिनांक: 02/02/22

सेवा में,

प्रधान मुख्य वन संरक्षक (एफ0सी0ए0),
कार्यालय प्रधान मुख्य वन संरक्षक,
सी-18, वन भवन, सेक्टर-6,
पंचकूला, हरियाणा।

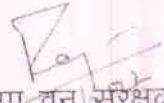
विषय:-

Diversion of 0.7570 hac. of forest land for laying of water pipeline for raw water from (Gurugram District Boundary) Hari Nagar Dooma to Musaidpur water works & Musaidpur water works to Mehchana water works, under Forest Divison & Distt. Gurugram. (Proposal No. FP/HR/Water/124769/2021)

सन्दर्भ:-

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय का पत्र क्रमांक 9-HRB188/2021 दिनांक 20.12.2021 तथा पत्र दिनांक 25.01.2022


उपरोक्त विषय के सम्बन्ध में सन्दर्भित पत्र के सन्दर्भ में 4400 पौधों की प्रतिपूर्ति पौधारोपण स्कीम तथा 3540 पौधों की अतिरिक्त प्रतिपूर्ति पौधारोपण स्कीम, भारत सरकार के पत्र दिनांक 5-3/2011-FC(VOI-I) dated 06.01.2022 द्वारा जारी दरों अनुसार नवीनतम एन.पी.वी. के रेट अनुसार बनाकर भेजी जाती है। (Rate are calculated for ECO-III dense forest)


उप वन संरक्षक,
गुरुग्राम।

पृ0 क्रमांक /

दिनांक /

एक प्रति मुख्य वन संरक्षक, दक्षिणी परिमण्डल, गुरुग्राम को नवीनतम सी.ए. स्कीम सहित सूचनार्थ प्रेषित है।


उप वन संरक्षक,
गुरुग्राम।

Full Title of the Project: Diversion of 0.7570 hac. of forest land for laying of water pipeline for raw water from (Gurugram District Boundary) Hari Nagar Dooma to Musaidpur water works & Musaidpur water works to Mehchana water works, under Forest Division & Distt. Gurugram.

File No. :

FP/HR/Water/124769/2021)

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 0.7570 hec of forest land laying of water pipeline for raw water from (Gurugram District Boundary) Hari Nagar Dooma to Musaidpur water works & Musaidpur water works to Mehchana water works, Under Forest Division and Distt. Gurugram..

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

District: -Gurugram

Tehsil: Gurugram

Forest Division: - Gurugram

Range: Gurugram

Block/Compt/Survey No.:-

Bandhwari Section 4&5 of PLPA 1900

Area to be afforested:

4400 plants & 3540 Addl. will be planted.

GPS Reading:- N 29023'46" E 7709'4"

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 Bandhwari of Tehsil Wazirabad and the land has been considered as forest for the purposes of FCA by Hon'ble Supreme Court.
- **Soil type:** Mostly Loamy soil with hough boulders & sand stone on Aravalli Hill and sandy loam to sandy in foothills.
- **Topography:**
 - e. Hilly/Undulating/Plain :Hilly
 - f. 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 utmost 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	476.99/- Per Plant
2	2 nd Year Maintenance	146.42/- Per Plant
3	3 rd Year Maintenance	78.71/- Per Plant
4	4 th Year Maintenance	71.66/- Per Plant
5	5 th Year Maintenance	10.16/- Per Plant
6	6 th Year Maintenance	10.16/- Per Plant
7	7 th Year Maintenance	10.16/- Per Plant
8	8 th Year Maintenance	10.16/- Per Plant
9	9 th Year Maintenance	10.16/- Per Plant
10	10 th Year Maintenance	10.16/- Per Plant
	Total Cost.	834.74/- Per Plant

Area to be diverted: **0.7570hac.**

Area to be planted (One/two/ten times the diverted area) = **4400 plants & 3540 Addl. plants will be planted**

No. of trees to be felled= **440**

No. of Plants to be damaged=**1770**

Number of Plants to be planted (@ 1000 Plant per Hec.) = **4400 plants & 3540 Addl. plants will be planted**

Sr. No.	Description	Total Area	Rate	Total Amount (Rs.)
A	Net Present Value of Forest Land to be diverted Revised NPV rates as per Ministry letter no. 5-3/2011-FC(Vol-1) dt. 06.01.2022	0.757	Rs. 12.28590 Lacs/Ha.	930042.63
	Compensatory Afforestation Charges	No. of Plants		
1		4400	476.99/- Per Plant	2098756
2	2nd Year Plantation	4400	146.42/- Per Plant	644248
3	3rd Year Plantation	4400	78.71/- Per Plant	346324
4	4th Year Plantation	4400	71.66/- Per Plant	315304
5	5th Year Plantation	4400	10.16/- Per Plant	44704
6	6th Year Plantation	4400	10.16/- Per Plant	44704
7	7th Year Plantation	4400	10.16/- Per Plant	44704
8	8th Year Plantation	4400	10.16/- Per Plant	44704
9	9th Year Plantation	4400	10.16/- Per Plant	44704
10	10th Year Plantation	4400	10.16/- Per Plant	44704
B	Total Charges of (B Above)			3672856.00
Additional Compensatory Afforestation				
1	1st Year Plantation	3540	476.99/- Per Plant	1688544.6
2	2nd Year Plantation	3540	146.42/- Per Plant	518326.8
3	3rd Year Plantation	3540	78.71/- Per Plant	278633.4
4	4th Year Plantation	3540	71.66/- Per Plant	253676.4
5	5th Year Plantation	3540	10.16/- Per Plant	35966.4
6	6th Year Plantation	3540	10.16/- Per Plant	35966.4
7	7th Year Plantation	3540	10.16/- Per Plant	35966.4
8	8th Year Plantation	3540	10.16/- Per Plant	35966.4
9	9th Year Plantation	3540	10.16/- Per Plant	35966.4
10	10th Year Plantation	3540	10.16/- Per Plant	35966.4
C	Total Charges of (Above)			2954979.60
D	No barbed wire charges will be charged as loose stone wall has been included in cost norms.	0	0	0.00
E	Supervisory/Overhead/Miscellaneous Charges		10% On the total CA Charges	662783.56
F	Soil & Moisture Conservation Charges		30% of Total CA	1988350.68
G	Felling Charges Volume=	63.03	Rs 1200/- per m3	75636.00
H	Exigency Charges 3% of the Total Cost of (A+B+C+D+E+F+G)			308539.45
TOTAL (A+B+C+D+E+F+G+H)				10593187.92

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 requires immediate conservation attention. These vulnerable areas used to be biologically rich and support several unique elements of flora and fauna.

b. Spacing:

Pits of 45cm x 45cm x 45cm along with trench of size 2m x 0.45m x 0.45m will be dug over 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, Pip, 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 area 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 Catchment Area Treatment. Contour trenching will be done to check soil erosion and conserve the run of Check dam/vegetative barriers will be created in the nalas and valleys. Proposed cost will be as per norms (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, on-site 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. 4400 Plants & 3540 Addl. Plants will be planted.


Divisional Forests Officer
Gurugram

Date.....

Place :- Gurugram