



भारत सरकार / GOVERNMENT OF INDIA
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE
क्षेत्रीय कार्यालय, भोपाल/ REGIONAL OFFICE, BHOPAL
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File No. 6-MPA007/2018-BHO/311

Dated : 16/04/2024.

To,

The Additional Director General of Forests (FC)
Ministry of Environment, Forest & Climate Change
Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj
New Delhi - 110 003.

Sub: Site Inspection for diversion of 248.76 ha of forest land for construction of Kadan Medium Irrigation Project in favour of Water Resources Department, Sagar District in Madhya Pradesh (*Online proposal No. - FP/MP/IRRIG/23086/2016*)-reg.

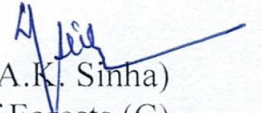
Ref: MoEF&CC, New Delhi Letter dated 09/02/2024.

Sir,

With respect to the subject and reference cited above, the joint Site Inspection Report of Regional Office, Bhopal and Nodal Officer, MP Forest Department in respect of 248.76 ha of forest land for construction of Kadan Medium Irrigation Project in favour of Water Resources Department, Sagar District in Madhya Pradesh is submitted herewith for further necessary action.

Yours faithfully

Encl : As above.


(A.K. Sinha)
Dy. Director General of Forests (C)

Copy to:

Shri Amit Anand, AIGF, Ministry of Environment, Forest & Climate Change (FC Division), Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi.

INSPECTION OF KADAN MEDIUM PROJECT-248.76 HA

Date of Site Inspection: 02.04.2024

Officers present:

1. Shri A. K. Sinha, DDGF (C)
2. Shri H.S. Mohanta, APCCF and Nodal Officer, MP Forest Department
3. Shri Chandra Shekhar Singh, DFO, Sagar North
4. Shri G. N. Singh, Executive Engineer, Kadan Project
5. Shri Shubham Jain, FRO, Sagar North
6. Shri Narendra Parasara, FBO, Chitoli
7. Shri Gajendra Kalasiya, FBO, Uldhan

Inspection of Diversion area

In principle approval of the project has already been given vide letter no.F. No. 8-11/2018-FC dated 18.06.2018. In compliance to point 2 (iii) of the conditions imposed in the said approval letter, the MoEF & CC vide letter dated 09.02.2024, Instructed RO Bhopal and the Nodal officer to conduct a joint inspection and submit a report. Accordingly, the joint inspection is taken up with the Nodal Officer, MP Forest Department. The Dam and earthen Barrage is situated on river Kadan, outside the forest area. Since, they are outside forest area, their construction work has already been completed except closure of the river. As the closure of the river has not taken place, accordingly, the submergence of forest area has also not taken place.

It was observed that the area coming under submergence is on foot hills of the adjoining hills. The density of the forest is about 0.2. The common vegetation found in the area *Butea monosperma*, *Madhuca indica*, *Syzigium cumini*, *Ficus religiosa*, *Terminalia arjuna*, *Eucalyptus*, *Terminalia bellerica*, *Tamarindus indica*, *Diasporus melanoxylon*, *Lagerstroemia parviflora*, etc. The growth of these trees are very much stunted due to heavy biotic pressure in the area. Common wildlife in the area are Leopard, Neelgai, Cheetal, Hyena, Wild pigs, etc. So, the forest falling in the submergence area is not a very valuable forest. On the other hand, the impounding of water will help the water regime in the area and help growth of the existing forest cover and also would be beneficial for the wildlife of the area.

Catchment area: 18125 ha
Gross Command area: 13500 ha
No. of Villages irrigated: 42

The irrigation through this project would be by two underground pipe canal system. There is a 96 meter length spillway which will allow surplus water to overflow.

Inspection of CA areas

Following are the proposed CA areas:

Sl. No.	Forest Range	Village	Khasra No.	Tehsil	Area in Ha
1.	Malthone	Mrigawali	1/1/2	Malthone	96.00
2.	Malthone	Mrigawali	1/1/1/2	Malthone	21.00
3.	North Sagar	Maswasi Grant	37/2	Sagar	50.00
4.	North Sagar	Kolua Amarsa	385/1/2 (s)	Sagar	35.00
5.	South Sagar	Muderi	47/1	Deori	47.00
Total					249.00

Out of the above mentioned CA areas, the joint inspection was carried out in following CA areas:

1. Maswasi Grant; Area-50.00 ha, Khasra No. -37/2, Range-Sagar North, Beat- Maswasi

The area is located on a hillock from its ridge to foothill. The ridge is flatter ground having soil mixed with stone boulders. The area is heavily infested with Lantana and Van tuls. The vegetation in the area is as follows: *Aegle marmelos*, *Carissa carandas*, *Ziziphus mauritiana*, *Diospyros melanoxylon*, *Butea monosperma*, *Lagerstroemia parviflora*, etc. The growth of these trees are very much stunted owing to poor edaphic factor and low rainfall.

As the project was given "In Principle Approval", the User Agency had paid the CA charges and accordingly the State Forest Department had taken up construction of stone wall around the CA area. However, the same need to get repaired at the locations where they are damaged. In about 2.5 to 3.0 ha, it was observed that some cultivation had taken place for which the FRO informed that the same would be evicted at the time of plantation. The area may be suitable for planting about 600 plants per ha due to rocky outcrops and existing root stock. Therefore, the DFO need to identify suitable DFL for planting the balance plants and prepare CA scheme accordingly. Since, the area is on a hillock, a watcher's hut cum watch tower is suggested to be constructed and the same should be included in the CA scheme. The area requires digging of staggered contour trenches and percolation tanks at suitable locations as a part of soil moisture conservation works. **The area is found suitable for raising plantation.**

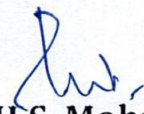
2. Kolua Amarsa; Area-35.00 ha, Khasra No. -385/1/2 (s), Range-Sagar North, Beat- Jerai
Beat Officer: Shri K. K. Prajapati.

It is a plain land with excellent root stock. It has black cotton soil with excellent depth. About 10.00 ha of the area is vacant and the rest is having excellent root stock. However, there was no encroachment noticed in the area. The vegetation comprises of *Aegle marmelos*, *Carissa carandas*, *Ziziphus mauritiana*, *Diospyros melanoxylon*, *Butea monosperma*, *Lagerstroemia parviflora*, *Buchanania lanzan*, *Albizia odoratissima*, *Tectona grandis*, *Emblica officinalis*, *Azadirachta indica*, etc. Wildlife in the area include Leopard, Neelgai, Cheetal, Hyena, Wild pigs, etc. Only about 10.00 ha of the area can be planted as it is vacant. In rest of the area, only Aided natural regeneration can be taken up for rejuvenating the area. The rest of the plants i.e. 25,000 plants have to be planted in DFL. The area requires construction of check dams, percolation tanks at suitable locations as a part of soil and moisture conservation works. Accordingly, the DFO shall identify a suitable DFL area and prepare CA scheme for the same. **The area is found suitable for raising plantation.**

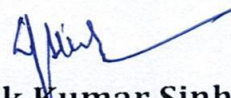
3. **Mrigawali; Area in two patches-1) 96.00 ha,**
Khasra no.- 1/1/2 2) 21.00 ha, Khasra no.- 1/1/1/2
Khasra No. - 1/1/2, Range-Malthone , Beat- Itwa
FRO : Shri B. N. Solanki
Beat Officer : Shri Laxman Singh Patel

The area is on one side of a hillock from ridge to the foothill. Both the patches are adjacent to each other. The area is slopy with moderate to gentle gradient. About half of the area is having excellent root stock with excellent growth and canopy density of about 0.3 to 0.4 and hence does not require any planting. Here only Aided natural regeneration can be taken up for rejuvenating the area. The rest half of the area is open and the same can be planted. There is no encroachment in the area. It is abutting to RF-119. The vegetation in the area include *Aegle marmelos*, *Carissa carandas*, *Ziziphus mauritiana*, *Diasporus melanoxylon*, *Butea monosperma*, *Lagerstroemia parviflora*, *Buchanania lanzan*, *Albizia odoratissima*, *Tectona grandis*, *Emblica officinalis*, *Azadirachta indica*, etc. Wildlife in the area include Neelgai, Cheetal, Hyena, Wild pigs, etc. Since, the area is located on slope of a hillock, staggered contour trenching and continuous contour trenching are advisable to be taken up for soil and moisture conservation. A road alignment is also required to be taken up to reach at the top of hillock to monitor and transport the planting materials. Since, the area is on a hillock, a watcher's hut cum watch tower is suggested to be constructed and the same should be included in the CA scheme.

It was observed that there existed a temple inside the plot, though excluded from the CA area, needs to be fenced all around. The approach road to the temple should also be fenced on both the sides. **The area is suitable for raising CA with strong protection structures all around.**


H.S. Mohanta
Nodal Officer

Madhya Pradesh Forest Department


Ashok Kumar Sinha
DDGF (C)

MoEF& CC , Regional Office, Bhopal

Field Inspection Photographs



Diversion Area of Kadan Project



CA Area