

Sub: Proposal for diversion of 248.76 ha. of Forest Land for construction of Kadan Medium Irrigation Project in favour of Water Resources Department, Sagar District Madhya Pradesh State.– regarding.

1. The Addl. Principal Chief Conservator of Forests (Land Management) and Nodal Officer, Forest (Conservation) Act, 1980, State Government of Madhya Pradesh vide their letter No. F-3/81/2016/10-11/12/575 Bhopal dated 27.02.2018 (**Pg. 1-181/c**) submitted a proposal to obtain prior approval of the Central Government, in terms of the Section-2 of the Forest (Conservation) Act, 1980 for diversion of 248.76 ha. of Forest Land for construction of Kadan Medium Irrigation Project in favour of Water Resources Department, Sagar District Madhya Pradesh State.
2. This Ministry vide its letter of even number dated 19.03.2018 (**Pg. 119/c**) requested to the Regional Office, Bhopal to carry out the site inspection of the area proposed for diversion. The Regional Office vide their letter No. 6-MPA07/2018-BHO/056 dated 12.04.2018 (**Pg. 120-127/c**) submitted the site inspection report of the area.
3. The facts related to the proposal as contained in the proposal submitted by the State Government and in the site inspection report submitted by the Regional Office, Bhopal are given below in the form of fact sheet:

FACT SHEET

1.	Name of the Proposal	Diversion of 248.76 ha. of Forest Land for construction of Kadan Medium Irrigation Project in favour of Water Resources Department, Sagar District Madhya Pradesh State.
2.	Name and nature of the user agency	Water Resource Department, Sagar Madhya Pradesh.
3.	Nature of the user agency	A State Government undertaking.
4.	Category	Irrigation.
5.	Period of time	100 years.
6.	Location (i) State (ii) District (iii) Compartment No.	Madhya Pradesh. Sagar. RF367, RF368, PF369
7.	Particulars of Forests: (i) Name of Forest Division and Forest area involved. (ii) Legal status/Sy. No (iii) Maps	Sagar (N) forest Division –248.76 ha. Sagar North Reserved forest land. i. SOI – Pg. 12/c. ii. DGPS Map - Pg. 13/c. iii. 10 km radius map – not submitted. iv. CA area maps – Pg. 72-78/c. v. Layout map – Not submitted.
8.	Topography of the area	-
	(i) Geology (ii) Vulnerability to erosion	Not reported. No.
	(i) Vegetation & Density (ii) No. of trees to be felled	0.3 Eco –Class 3 As reported by the State Government the number of trees /plant FRL wise to be felled in the proposed area: FRL = 1605 plant

		FRL = 1382 trees (above 30cm) FRL4 = 440 trees Total number of trees: 3427.
9.	Whether area is significant from wildlife point of view	No
10.	Details of wildlife present in and around the forest land proposed for diversion:	None.
11.	Whether forms part of National park, Wildlife Sanctuary, Biosphere Reserve, Tiger Reserve, Elephant Corridor, etc. (if so, details of the area and comments of the Chief Wildlife Warden	No.
12.	Whether any RET species of flora and fauna are found in the area. If so details thereof	No.
13.	Approximate distance of the proposed site for diversion from boundary of forest.	Proposed area at about 60 km. from Panna Tiger Reserve.
14.	Whether the forest land proposed for diversion is located within eco-sensitive zone (ESZ) of the Protected Area notified under Wild (Protection) Act, 1972 (Note: In case, ESZ of a Protected Area is not notified, then, 10 kms distance from boundary of the Protected Area should be treated as ESZ):	No.
15.	Whether any national park, wildlife sanctuary, biosphere reserve, Tiger reserve, elephant corridor, wildlife migration corridor etc., is located within 1 Km from boundary of the forest land proposed for diversion:	No.
16.	Whether any protected archaeological/ heritage site/defence establishment or any other important monuments is located in the area.	No.
17.	Whether any work of in violation of the Forest (Conservation) Act, 1980 has been carried out (Yes/No). If yes details of the same including period of work done, action taken on erring officials. Whether work in violation is still in progress.	No.
(a)	Details of violation (s)	
(b)	Period of Work done (year)	
(c)	Area of forest land involved in violation (in ha.)	
(d)	Whether work in violation is still in progress (Yes / No)	
18.	Whether the requirement of forest land as proposed by the user agency in	

	col. 2 of Part-I is unavoidable and barest minimum for the project, if no recommended area item-wise with details of alternatives examined.	Yes.																																													
19.	Whether clearance under the Environment (protection) Act, 1986 is required?	As reported by the user agency, the EC application under process.																																													
20.	Status of Wildlife Clearance.	As reported by the user agency, No wild life clearance is required.																																													
21.	Compensatory Afforestation																																														
	(i) Details of non-forest area/degraded forest area identified for CA, its distance from adjoining forest, number of patches, size of each patches.	It is reported that equivalent revenue land has been identified in Sagar Forest Division for compensatory afforestation as per details given by the State Government:																																													
	(ii) Map showing non-forest/degraded forest area identified for CA and adjoining forest boundaries.	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Village</th> <th>Tehsil</th> <th>Khasra No.</th> <th>Rakba in ha.</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Mragawali</td> <td>Malthon</td> <td>1/1/2</td> <td>96.00</td> </tr> <tr> <td>2.</td> <td>Bhelaiya</td> <td></td> <td>402/1/2</td> <td>30.00</td> </tr> <tr> <td>3.</td> <td>Maswasi Grant</td> <td>Sagar</td> <td>37/2</td> <td>50.00</td> </tr> <tr> <td>4.</td> <td>Muderi</td> <td>Dewari</td> <td>47/1</td> <td>47.00</td> </tr> <tr> <td>5.</td> <td>Bhardi</td> <td>Kesali</td> <td>88/1</td> <td>14.38</td> </tr> <tr> <td>6.</td> <td>Kharkhari</td> <td></td> <td>1/3</td> <td>4.68</td> </tr> <tr> <td>7.</td> <td>Sahajpuri Kalan</td> <td>Rehli</td> <td>1/4</td> <td>6.70</td> </tr> <tr> <td colspan="4" style="text-align: right;">Total</td> <td>248.76</td> </tr> </tbody> </table> <p>Copy of the same may kindly be seen at page 97-113/c.</p> <p>The land identified for CA has been transferred in favour of the State Forest Department. A copy of the evidence given by the District Collector pertaining to the mutation of the said land has also been submitted by the State Government (Pg. 50-64/c).</p>	S. No.	Village	Tehsil	Khasra No.	Rakba in ha.	1.	Mragawali	Malthon	1/1/2	96.00	2.	Bhelaiya		402/1/2	30.00	3.	Maswasi Grant	Sagar	37/2	50.00	4.	Muderi	Dewari	47/1	47.00	5.	Bhardi	Kesali	88/1	14.38	6.	Kharkhari		1/3	4.68	7.	Sahajpuri Kalan	Rehli	1/4	6.70	Total				248.76
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Total				248.76																																											
	(iii) Detailed CA scheme including species to be planted, implementing agency, time schedule, cost structure, etc.	Page 97-113/c .																																													
	(iv) Total financial outlay for CA	Rs. 1223.37/- (Pg. 89/c)																																													
	(v) Certificate from the competent authority regarding suitability of the area identified for CA and from management point of view.	Land suitability certificate is given by the competent authority only for 176.00 ha. copy of the same may kindly be seen at page no-95/c. <u>However, the competent authority has not given the suitability certificate for 248.76 ha. of CA land.</u>																																													

22.	Catchment Area Treatment	(Pg. 130-176/c). The user agency has also submitted undertaking (Pg. 79/c).
23.	Rehabilitation of Oustees	No displacement involves.
24.	R & R plan	Not applicable.
25.	Compliance of Scheduled Tribe and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006.	The District Collector, Sagar Madhya Pradesh has issued FRA certificate letter No. 3065A/FRA/2016-17/Sagar dated 08.03.2017 (Pg. 27/c) for diversion of 248.76 ha. of Forest Land for construction of Kadan Medium Irrigation Project in favour of Water Resources Department, Sagar District Madhya Pradesh State. Details/Report of District Level Committee has also submitted by State Government, may kindly be seen at (Pg. 28/c). Documentary evidences in support of settlements of rights under the Scheduled Tribe and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 may kindly be seen at Pg. 29-49/c.
26.	Site Inspection Report of the Divisional Forest Officer;	The Site Inspection Report carried out by the Divisional Forest Officer, Sagar Madhya Pradesh, copy of the same may kindly be seen at (Pg. 91-93/c).
27.	Cost Benefit Ratio	55.26 (Pg. 20-25/c).
28.	Total Cost of the Project	Rs. 38579/- (Lakhs) (Pg. 2/c)
29.	Employment Potential	Permanent – 50 Temporary- 150
30.	Recommendation i. DFO ii. CCF iii. Nodal Officer iv SG	Recommended Pg. 94/c Recommended Pg. 177/c Recommended Pg. 178/c Recommended Pg. 179/c
31.	District Profile, Sagar (i) Total Geographical area of the district (ii) Total Forest area/Divisional Forest area (iii) Total area diverted since 1980 (iv) Total CA stipulated since 1980 (Forest land) (a) Forest Land (b) Non-forest land	1040634 ha. 291795.70 ha. 490.323 (total cases 36) 201.86 ha. - -

	i. Progress of Compensatory afforestation as on 30.11.2017	
	(a) Forest land	201.86 ha.
	(b) Non Forest Land	658.66 ha.

4. The Addl. Principal Chief Conservator of Forests (Land Management) and Nodal Officer, Forest (Conservation) Act, 1980, State Government of Madhya Pradesh vide their letter No. F-3/81/2016/10-11/12/947 dated 28.03.2018 (**Pg. 128-181/c**) has submitted additional information pertaining to the proposal:

- (i) The user agency has given the purpose-wise breakup of the proposed forest land:

S. No.	Detail of work	Forest Division	Forest Section	Cell No.	RF/PF	Approved area in ha.
1.	3	4	5	6	7	8
1.	Main Dam place	Sagar (North)	71 Lalak Paatan	RF-367	Reserved Forest	3.90 3.00
2.	Vaist Vear Spill Ve	-	-	-	-	-
3.	Spill Channel	-	-	-	-	-
4.	Submergence area of Main Dam	-	-	RF-367 RF-368 RF-369	Reserved Forest	48.96 174.34 18.56
5.	River Area	-	-	-	-	-
6.	Mine	-	-	-	-	-
7.	Approach Road	-	-	-	-	-
8.	Other Work	-	-	-	-	-
Total:						248.76

- (ii) The user agency has submitted undertakings to pay the cost of CA & NPV (**Pg. 181/c**).

5. The forest land proposed to be diverted has been inspected by Shri B. Abhay Bhaskar, Dy. Chief Conservator of Forests (Central), Regional office (Western Zone), Bhopal. Additional information furnished in the inspection report submitted by the Regional Office (Western Zone), Bhopal vide their letter dated 12.04.2018 (**Pg. 120-127/c**) are as below:-

Officers present during site inspection:-

- (i) Shri B. Abhay Bhaskar, DCF(C), R.O. Bhopal
(ii) Shri. Gupta, EE, WRD, Damoh, Govt. of Madhya Pradesh.
(iii) Shri R. Jain, SDO, WRD, Damoh, Govt. of Madhya Pradesh.
(iv) Field staff of Forest Department & WRD, M.P.

Date of Inspection: **05th April 2018**

- (i) Legal Status of Forest land proposed for diversion.

- a.** Reserved forest land : 248.76 ha
b. Protected forest land : 00.00 ha
c. Revenue forest land : 00.00 ha
d. Non-forest land : 506.02 ha

- (ii) How the land proposed for diversion is to be utilized? : **Storage of water for irrigation project.**

Component wise breakup			
S. No	Component	Forest Land (ha.)	Non-Forest Land (ha.)
1	Dam	Not Submitted	Not Submitted
2	submergence	Not Submitted	Not Submitted

(iii) Whether the proposal involves any construction of buildings (including residential): **Not submitted.**

(iv) Total cost of Project. : **Rs. 38579.00 lakhs.**

(v) Wild Life:

Whether the forest area proposed for diversion : **No**
is important from Wildlife point of view or not:

(vi) Aerial distance from the nearest boundary of any protected area: **No.**

(vii) Vegetation :

a. Trees to be felled:

Level	(31-60) cm.	(61-90) cm.	(91-120) cm.	(121-150) cm.	(>150) cm.	Total
FRL	59	113	597	462	140	1391
FRL-2	-	-	-	-	-	-
FRL-4	40	86	150	50	114	441

b. Effect of removal on the general ecosystem in the area: **the irrigation project.**

As per Part-II, Canopy Density is 0.3 & Eco-class 3. The vegetation of area consists of *monosperma*, *Madhuca indica*, *Syzygium cumini*, *Ficus religiosa*, *Terminalia arjuna*, *Eucalyptus*, *Terminalia bellerica*, *Tamarindus indica*, *Diosporus melanoxylon*, etc were observed. The forest is mixed forest with teak as major species.

(viii) Background note of the proposal:

The project shall store water in 181.25 sq km area. The project is kadan medium irrigation tank project with command area of 9,990.00 ha. The project will bring command area under multiple cropping pattern, which will bring the uplifting of peoples

(ix) Compensatory Afforestation: **Applicable, non-forest land = 248.76 ha. District Sgar (e-portal).**

A	Whether land proposed / selected for C.A. is suitable for plantation and management point of view?	Yes		
B	Whether land for C.A. is free from encroachment of other encumbrances?	Yes		
C	Whether land for C.A. is important from religious or archaeological point of view?	No		
D	Land identified for raising C.A. is in how many patches? Whether patches area compact or not?	7 (Seven) patches in Sagar district:		
		S. No	Village	Area (in ha.)
		1	Mragawali	96
		2	Maswasi Grant	50
		3	Sahajpurikalan	6.7
				khasra
				1/1/2
				37/2
				1/4

		4	Kharkhari	4.68	1/3
		5	Bhelaiya	30	402/1/2
		6	Bhardi	14.38	88/2
		7	Muderi	47	47/1
E	Maps with details	Yes			
F	C.A. area should be clearly shown on the map, patches wise and their contiguity to the forest area, etc.	Yes			
E	Total financial outlay of 10 years CA programme	4606.629 lakhs			

- (x) Whether proposal involves violation of Forest (Conservation) Act ? : **No.**
- (xi) Whether the proposal involves rehabilitation of displaced people? : **No.**
- (xii) Reclamation Plan details and Financial Allocation: **Not applicable.**
- (xiii) Cost benefit ratio : **1: 3.02 (5% interest) & 1:1.76 (10% interest)**
- (xiv) Utility of project: **for water storage and irrigation in command area.**
- (xv) Number of Scheduled Case and Scheduled Tribe involved in the Project: **No.**
- (xvi) Compliance of FRA 2006-DC Certificate: **is submitted from DC, Sagar MP.**
- (xvii) Whether the land being diverted has any socio-cultural / religious value: **No**
- (xviii) Whether any sacred groves or very old growth of tree of forest exist in the area proposed for diversion? : **No**
- (xix) Recommendation of Nodal officer and the State government:
- The Nodal officer – recommended.
 - The State Government –recommended.
- (xx) Details of comments of the APCCF (LM), MP on alternate routes/alignments for locating the projects. : **Recommended by APCCF (LM), MP**
- (xxi) Specific observation of inspecting Officer:
- (xxii) The site inspection was carried out on 05.04.2018.
- (xxiii) **Specific observation and suggestion for project based on Site Inspection:-**
- The area is very dry which can be seen through the cropping patten and economic condition of the farmers. As per National Water Policy, 2012, it is proposed to seek the detailed drinking water supply plan / scheme from State Govt of Madhya Pradesh **or** minimum of 20% of the water on annual basis shall be used for providing clean & potable drinking water to the villagers.
 - The project proposal is only for dam and it was told during site inspection that irrigation shall be through pressurized pipes. Future, the User Agency may be sought to submit the suitable submission for non-requirement of forest land for irrigation Canal and DISNET, etc.
 - The forestry plantation is tough job & for growth of any plants basic things like minimum soil depth, minimum moisture holding capacity and minimum nutrition is required. The CA area and observations

Sl. no	Village	Area (ha.)	Khasara	DSS remarks
1	Mragawali	96	1/1/2	45 ha MDF , Agriculture, Encroachment.
2	Maswasi Grant	50	37/2	Agriculture, Encroachment.
3	Sahajpuri kalan	6.7	1/4	Agriculture, Habitation
4	Kharkhari	4.68	1/3	Bare rocky area
5	Bhelaiya	30	402/1/2	Agriculture, Encroachment.
6	Bhardi	14.38	88/2	Bare rocky area , Agriculture.
7	Muderi	47	47/1	47 ha MDF , Agriculture, Habitation.

- a. Sl. No.1 &7 shows MDF. We may accept it with condition that State Govt. shall provide the details of degraded forest area where they shall carry out in leave of MDF area.
- b. Sl. No. 4 & 6 shows bare rocky area. So, it is proposed to seek alternative land.
- c. All area shows agriculture, encroachment & habitation.

(xxiv) Recommendations of APCCF(C), R.O., Bhopal :

In view of the details mentioned in the site inspection report of Dy. Conservator of Forest (C), undersigned recommends the proposal for the diversion of 248.76 ha. of forest land for construction of Kadan medium irrigation project in favour of Water Resources Department, Sagar district of Madhya Pradesh under Forest (Conservation) Act, 1980 keeping in view all the conditions & observations as contained in DCF(C)'s Site Inspection Report.

6. Specific recommendation of the DFO:-

- (i) Kadan medium project is of national important and it will provided water for irrigation of the land. Therefore it is recommended for approval.
7. The Total area proposed for CA is found to be 308 ha. Whereas 248.76 ha. Mentioned in the instant proposal there is a discrepancy of 59.24 ha. Is observed.
8. There are presence of settlements & agriculture fields inside the proposed area for diversion and same is depicted through high resolution satellite data.

It is proposed that the proposal along with site inspection report received from the Regional Office (Western Zone), Bhopal may be placed before the Forest Advisory Committee in its forthcoming meeting scheduled to be held on **26th April, 2018** for its examination and appropriate recommendations.
