

Government of India
Ministry of Environment, Forest and Climate Change

I/46347/2023 (Forest Conservation Division) 8-16/2023-FC, Dated: June 2023

No.	DESCRIPTION OF SHORTCOMINGS OBSERVED	COMPLIANCE OF SHORTCOMING OBSERVED		
i.	The basic details of proposed dam like its height, length, hydrological assessment etc. along with detailed project report shall be submitted.	Description	Morand Dam	Ganjal Dam
		The River	Morand River	Ganjal River
		Catchment area up to dam site	1031.99 Sq.kms	413.49 Sq.kms
		75 % dependable yield	316.34 MCM	126.75 MCM
		Maximum probable Flood	8795 Cumec	4650 Cumec
		Type of Dam	Earthen	Earthen
		Length	481 m	1145 m
		Maximum Height	47.28 m	35.067 m
		Saddle Dam		
		Length	628.00 m	-
		Earthen portion	405.98 m	-
		Overflow portion including Key	252.25 m	-
		Maximum Height	21.51 m	-
		Central water commission has already examined the hydrology and water use of the entire project in details and has approved the same. Water requirement pressure irrigation has been assessed and approved by irrigation planning directorate of CWC. Project has been accurately determined, assessed and approved by the Hydrology Directorate of CWC. Also, various demands on the reservoirs has been pondered over, examined and approved by IP Directorate of CWC, these assessments and approvals are already in record. Hydrology Report Enclosed. (Annexure – 1)		

Government of India
Ministry of Environment, Forest and Climate Change

I/46347/2023 (Forest Conservation Division) 8-16/2023-FC, Dated: June 2023

ii.	The site specificity of the proposal shall be re-examined and a detailed report along with justification as to why the project cannot be located in non-forest area shall be submitted.	The project is one of the irrigation projects approved by the Narmada Water Disputes Tribunal (NWDI). Central Water Commission has approved the project location after visiting the proposed sites and examining all the relevant aspects. Enclosed (Annexure – 2)
iii.	The details of the alternative sites examined along with KML files shall be submitted.	In the proposed Morand Dam depending upon the topography and geological condition three different alternate dam sites have been explored. Compared to other two alternate dam alignment this alignment is having lesser Dam length and its foundation is very good and cost effective and this alignment is techno economically found with minimum forest area involve. (Annexure – 3)
iv.	The plan along with details for further distribution of water to end users shall be submitted. In case additional forest land is required for distribution of water, the details of the same shall be provided.	No further additional forest land is required for distribution of water. Broad Conceptual Plan, Design and GAD Report Approved Plan. Enclosed. (Annexure – 4)

Government of India
Ministry of Environment, Forest and Climate Change

I/46347/2023 (Forest Conservation Division) 8-16/2023-FC, Dated: June 2023

v.	The copy of CAT plan as submitted does not mention that the same is approved by the Principal CCF & HoFF or any other officer authorized by him for the purpose as prescribed under the Chapter-9 at para 9.2(vi) of Comprehensive Guideline Handbook, 2019. The same needs to be submitted.	Related to forest department and copy of CAT plan has been uploaded on parivesh portal. (Annexure – 5)
vi.	The extant proposal is for an irrigation project, however as per the component wise break up forest land has been proposed to be used for quarrying. The justification for setting up of quarry in the instant irrigation project along with approved mining plan shall be submitted	Proposed quarry area in earlier forest diversion proposal has been excluded.
vii.	The proposal involves the rehabilitation of people and the State Govt. has reported 644 number of families being displaced due to the instant project whereas the DFO, Harda in its Site Inspection Report has reported that 1075 individuals would be displaced. This variation needs to be rectified and actual numbers may be intimated along with the copy of approved R&R plan.	DFO Harda has considered total population of villages letter issue by Gram Panchayat for total village population however as per approved R&R plan Nos. of project affected families 644 families further committee has been formed under chairmanship of collector Harda to ascertain no. of all project affected families will be given compensation as per The Right To Fair Compensation And Transparency In Land Acquisition, Rehabilitation And Resettlement Act, 2013 (Annexure – 6)

Government of India
Ministry of Environment, Forest and Climate Change

I/46347/2023 (Forest Conservation Division) 8-16/2023-FC, Dated: June 2023

viii.	The CCF, Betul and the CF, Narmadapuram in their Site Inspection report have mentioned that the forest land proposed for diversion forms a part of an active wildlife corridor utilized by wild animals (Tiger, Panther, etc.). The project execution may therefore lead to habitat fragmentation and cause obstruction in the corridor. Therefore, the State Government shall submit the comments of the Chief Wildlife Warden along with availability of alternative wildlife corridors in order to mitigate the detrimental effects of submergence of proposed forest land. It is further required to submit wildlife conservation plan approved by CWLW.	Wildlife Management Plan is under preparation and we will submit this plan duly approved by CWLW before stage- II approval. (Annexure – 7)
ix.	The Cost Benefit analysis has been calculated on the old NPV rates. The same is required to be submitted in the prescribed format keeping in view the latest rates of NPV.	Revised Cost Benefit Analysis Enclosed (Annexure - 8)
x.	The recommendation of CCF/ CF, Khandwa, Part-III has not been found uploaded online and same shall be uploaded.	Related to forest department.

Government of India
Ministry of Environment, Forest and Climate Change

I/46347/2023 (Forest Conservation Division) 8-16/2023-FC, Dated: June 2023

xi.	As per the project report the total forest area required in the project is 2270.89 ha, the FRA certificate have been issued by the respective district collectors for an area of 2410.335 ha and the online proposal has been submitted for an area of 2272.05 ha. This discrepancy in the area figures shall be examined and factual position shall be intimated.	<p>FRA certificate has issued by concern District Collector on application made as per DPR forest area covered 2410.335 ha. While as per approved drawing, design in DPR the proposed forest area calculated in Details Project Report 2272.05 ha. and same has been uploaded.</p> <p>Earlier the proposal for diversion of 2410.335 ha. Forest land. According FRA for 2410.335 ha. land obtained from the district Collector.</p> <p>Further the forest area affected by the project is 2272.05 ha. Finally we have reduced the forest area to 2250.05 ha. as quarry area (22 ha.) is also excluded in the proposal.</p>																								
xii.	The instant proposal is for diversion of 2272.05 ha forest land wherein the State Govt. has reported that the project is likely to be executed in a phased manner. Therefore, the phase wise details along with component wise breakup shall be submitted.	<p>Component wise breakup –</p> <table><tr><th>S No.</th><th>Phase</th><th>Component</th><th>Proposed area in Ha.</th></tr><tr><td>1</td><td>First</td><td>Dam Seat and Sluice, Pipeline PH/DC, Spillway channel with Fish Ladder, Approach & Diversion Road, Transmission Line</td><td>116.27</td></tr><tr><td>2</td><td>Second</td><td>(FRL-4)</td><td>1135.57</td></tr><tr><td>3</td><td>Third</td><td>(FRL-4)</td><td>616.748</td></tr><tr><td>4</td><td>Fourth</td><td>(FRL)</td><td>381.462</td></tr><tr><td></td><td></td><td>Total</td><td>2250.05</td></tr></table> <p>Letter PIU to APCCF Bhopal Enclosed (Annexure – 9)</p>	S No.	Phase	Component	Proposed area in Ha.	1	First	Dam Seat and Sluice, Pipeline PH/DC, Spillway channel with Fish Ladder, Approach & Diversion Road, Transmission Line	116.27	2	Second	(FRL-4)	1135.57	3	Third	(FRL-4)	616.748	4	Fourth	(FRL)	381.462			Total	2250.05
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Government of India
Ministry of Environment, Forest and Climate Change

I/46347/2023 (Forest Conservation Division) 8-16/2023-FC, Dated: June 2023

xiii.	<p>It has been informed that the District Collectors, Sagar, Betul, Agar Malwa and Jabalpur have reserved land for carrying out CA in the instant proposal. However, after examination of the same it has been found that as per District Collector, Betul vide their order dated 25.09.2018 an area of 662.00 ha of land has been reserved for CA out of which an area of 386.469 ha is proposed for CA against the instant proposal in Tehsil Betul, Amla and Godhadungri. However the land type of proposed CA is recorded as Forest land, Bade Jhar ka Jungle. Also as per District Collector, Sagar vide their order dated 18.09.2018 an area of 1071.99 ha of land has been reserved for CA and same is proposed for CA against the instant proposal. However the land type of proposed CA in Tehsil Kesli, Village – Padhna Khurd, Chirai, Rengajholi is recorded as Government Forest land. Further the land type (Bhumi Noiyyath) of CA land is not recorded in District Collector, Jabalpur order dated 18.02.2019. Therefore, the State Government shall clarify that whether such lands proposed for CA does not comes in the ambit of Forest (Conservation) Act, 1980 and justify these lands as NFL.</p>	<p>Verification and ground truthing of proposed CA land is in process by concern Divisional Forest Officer Office, if proposed CA land is not suitable for Compensatory Afforestation. We shall arrange suitable CA land which is required in phased manner. This is to inform that if any land selected for CA land found to be revenue forest land, in such case we shall provide double extent as per applicable norms.</p>
xiv.	<p>The approved CA scheme along with site suitability certificates from the concerned DFO shall be submitted.</p>	<p>As proposal is applied in phased manner CA land requirement will arise in the phases CA Scheme suitability certification from concern DFO is in process. (Ref. GoI MoEF FC - F. No.10-125/2013-FC(pt.-III) Dated 25/02/2014 Enclosed (Annexure – 10)</p>

Government of India
Ministry of Environment, Forest and Climate Change

I/46347/2023 (Forest Conservation Division) 8-16/2023-FC, Dated: June 2023

xv.	As per DSS analysis, it has been observed that:		
a.	The area of forest land proposed for diversion is found to be 1923.313 ha instead of 2272.05 ha as proposed. Therefore, the correct KML file as per the proposal needs submission.	To be clarified and will be considered with forest department of Madhya Pradesh. Revised Kml has been uploaded. (Annexure – 11)	
b.	High resolution satellite imagery shows the presence of Agricultural land and Settlements within the forest patches sought for diversion. Why such settlements and land use may not be considered as violation. This needs clarification.	The forest patta land will be given compensation as per guidelines, details of benefited persons & land allotted is attached as (Annexure – 12)	
c.	The complete KML file of submergence area/ Non-forest land involved in the project i.e. 1277.694 ha on the PARIVESH portal. The same needs submission.	Kml of 1277.694 ha. has been uploaded on portal	
d.	The total area of proposed CA land through KML file is found 2540 ha whereas the State Govt. reported CA area of 2407.189 ha. Therefore, the State Govt. shall provide the correct KML file of CA area as per the actual records/ orders	Identified & allotted CA land details uploaded by proponent however State Forest Department has initiated verification process. (Annexure – 13)	
e.	Satellite imagery shows the presence of Settlements/ Built-up in the CA areas located in Villages jaitpur kachhaya (35 ha) & Danger salaiya (100 ha). Moreover, an earthen dam also exists within the proposed CA site at village Danger salaiya. This needs clarification.	Verification and ground truthing of proposed CA land is in process by concern Divisional Forest Officer Office, if proposed CA land is not suitable for Compensatory Afforestation. In that case proponent shall arrange suitable CA land which is required in phased manner.	
f.	Satellite imagery shows the presence of Settlements/ Built-up, Agriculture land, earthen dam, Road, play ground in the entire CA sites proposed in Village Chirrari. This needs clarification.		
g.	Satellite imagery shows the presence of earthen dam and canals at the CA sites proposed in villages Bhuhara, Chak vileki and Vileki. Moreover, presence of Agriculture land can also be seen in the 601.58 ha land proposed for CA. This needs clarification.		

Government of India
Ministry of Environment, Forest and Climate Change

I/46347/2023 (Forest Conservation Division) 8-16/2023-FC, Dated: June 2023

	h.	Part of CA site is falling on the submergence of an earthen dam, having the presence of settlements/ town, construction of check dam is also going on in the proposed CA site. Moreover, part of mined out area is also visible within the proposed CA site at village Khamkua. This needs clarification.	Verification and ground truthing of proposed CA land is in process by concern Divisional Forest Officer Office, if proposed CA land is not suitable for Compensatory Afforestation. In that case proponent shall arrange suitable CA land which is required in phased manner.
	i.	Presence of Settlements and Agriculture land can be seen at proposed CA site at Village Sahajpuri kalan. This needs clarification.	
	j.	An earthen dam is located within the proposed CA site at Village Tirmahu. This needs clarification.	
	k.	All proposed CA site at Villages Gopalpura, Gandhigram, Sukadhana, Sobhapur, Pandra, Bodna, Mordongri and Chapada rayat are having presence of Agriculture land and an earthen dam with settlements over 44 ha CA site. Moreover, plantation works are visible within the 60 ha area of proposed CA site. This needs clarification.	
	l.	Mining is going on near the proposed CA site village Barguwan. Therefore, the State Govt. shall ensure that the proposed CA site is the not the part of Mine lease.	
	m.	Part of proposed CA site at Village Shyampura & Garda are having presence of settlements within the CA boundary. Moreover, part of proposed CA land is also falling on the submergence zone of existing earthen dam. This needs clarification.	

Government of India
Ministry of Environment, Forest and Climate Change

I/46347/2023 (Forest Conservation Division) 8-16/2023-FC, Dated: June 2023

	n. Plantation work and some pre-plantation operations are visible within the proposed CA Site at Village Dongargaon & Bid Madhopur. Moreover, part of CA site at village Dongargaon is falling on the submergence zone of an earthen dam. This needs clarification.	CA site has been mutated in favor of forest revenue record is attached and possession also handed over to forest department.(Annexure – 14)
	o. It is also learnt the user agency/ State Govt. has uploaded many KML files of the CA land in the line feature instead of Polygon on the PARIVESH. Further, proper annotation/ attributes to each KML file of CA land has not been mentioned due to which it is very difficult to identify and locate CA land KML file with respect to their villages & Khasra Nos. The same shall be resubmitted and rectified.	KML files Will be uploaded with polygon feature.
xvi.	The proposed CA area are not free from encumbrances as per above observations from DSS analysis. A justification may be provided for identifying such land and State Government may comment that is there any requirement for rehabilitation & resettlement of people from the identified CA lands.	If CA land prosed is not free from encumbrances then proposal shall be arranging other CA land which has to be suitable as CA land.
xvii.	The State shall also specifically mention the plan to protect the identified CA land from encroachment in future. A detailed plan shall be submitted accordingly.	Proposed CA land verification in process with concern DFO will make provision for fencing and will be transferred in the favor of forest department to protect identified CA land.
xviii.	The complete lay out plan along with KML files indicating all the components like canal, Quarry Area etc. shall be submitted.	Layout plan Enclosed.(Annexure – 15)

Government of India
Ministry of Environment, Forest and Climate Change

I/46347/2023 (Forest Conservation Division) 8-16/2023-FC, Dated: June 2023

xix.	As per the technical approval dated 18.10.2017 it has been mentioned that the Morand Dam will be constructed in Phase-I and if the water requirement gets fulfilled by the same in that case the construction of Ganjal will not take place. Moreover the Indira Sagar Dam is located at a distance of 54.40 Km from the proposed forest diversion site for Harda Dam and Tawa Reservoir is located at a distance of 34.33 Km from the proposed forest diversion site for Morand Dam. In this regard, specific reasons for proposing the construction of instant dams are required.	As, in revised approval construction of Ganjal Dam found to be technically & financially viable because left out adjoining irrigated area unable to cater by existing irrigation project. Revised Administrative Approval along with technical approval details attached as annexure from State Government Vide Letter No. एफ - 31-21/2017/ सताईस- एक, on Dated 21/04/2022.(Annexure – 16)
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Project Administrator,
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Morand Ganjal & Hoshangabad Barrage,
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