



State Environment Impact Assessment Authority, M.P.
(Ministry of Environment, Forest and Climate Change, Government of India)

Environmental Planning & Coordination Organization

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No.: 5798 /SEIAA d/1
Date: 22.10.20

To,
Executive Engineer,
Water Resources Division No. II,
Office of the Executive Engineer,
Dist. Betul, MP-460001

Sub Case No.7891/2020: Prior Environment Clearance for Garha Irrigation Project at Village - Kodaroti, Sadar, District- Betul (MP) Gross Command Area- 11500 ha Culturable command area (CCA): 8500ha; Catchment Area- 390.75 sq.m. submergence area 954.13 ha by Executive Engineer, Water Resources Division No. II, Office of the Executive Engineer, Dist. Betul, MP- 460001 Email – eewrdbetulmp@rediffmail.com, Mob - 9826222772 Env. Consultant.- R. S. Envirolink Technologies. Pvt. Ltd. Gurgaon.

Ref: Your application (Online proposal no. (SIA/MP/RIV/172389/20) dated 07.10.20 received in SEIAA office on 08.10.2020.

With reference to above, the proposal has been appraised as per prescribed procedure & provisions under the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated 14th September 2006 and its amendment, on the basis of the mandatory documents enclosed with the application viz., Form -2, pre-feasibility report, EMP report, ppt and additional clarifications furnished in response to the observations by the State Expert Appraisal Committee (SEAC) and State Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

- i. The project involves construction of a dam across Machna river, to create gross storage capacity of 39.62 MCM out of which 31.885 MCM will be utilized for lift irrigation scheme and 2.00 MCM for drinking water.
- ii. This will be a 1185 m long Dam (971 m earthen and 214 m concrete/masonry) with a maximum height of 19.86 m from deepest riverbed level.
- iii. Dam will create a Gross storage 39.62 MCM and live storage of 31.885 MCM.
- iv. Water will be lifted through a rising main of 4.5 km up to DC and then distributed by two gravity mains of 10.5 km and 7.5 km long.
- v. 3.06 cumec of water will be lifted in this scheme during Rabi season only.
- vi. Water shall be delivered up to 5 ha chak, beyond which cultivators shall connect their own line and sprinkler system.

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Case No. 7891/2020

Issued vide letter no. dated

Case No.: To be quoted in registered cases for correspondence

- vii. Total 31 villages will be benefitted, 25 villages of Betul CD Block, 5 villages of Chicholi CD Block and 1 village of Ghodadongri CD Block
- viii. There is no wildlife sanctuary, National park (DFO letter dtd. 24.09.20) and interstate boundary(PWD letter dtd.17.09.20) within 10 km of the project area, hence general conditions are not attracted.
- ix. The project has a command area of 8500 ha; therefore as per EIA notification of September 2006 and subsequent amendment dated 14th August 2018, it is a Category B2 project (Medium irrigation project having CCA > 2000 ha and < 10000 ha)" and hence shall be appraised by SEIAA/SEAC, Madhya Pradesh.
- x. The project is planned by WRD, MP to provide irrigation & drinking water to Betul, Chicholi and Ghodadongri blocks of Betul district.
- xi. The project is planned to cater irrigation water to 8500 ha of CCA in 31 villages of Betul, Chicholi and Ghodadongri blocks of Betul district.
- xii. Total land requirement for the project is 966.13 ha out of which 12 ha is required for approach road, staff quarters, office, store, rising main, distribution chamber etc. and 954.13 ha comes under submergence.
- xiii. Total land requirement of 966.13 ha constitutes of:
 - government land: 113.47 ha
 - private land: 852.66 ha
 - No forest land shall be required for the project.
- xiv. A total of 10 villages of Betul CD Block will be affected, out of which 2 villages will involve displacement of families.
- xv. 17 houses (36 nuclear families) will get displaced and resettled; from 2 villages viz. Kodaroti and Padhar Khurd. They will be settled near the same villages on available government land.
- xvi. In irrigation schemes, air pollution occurs mainly during project construction phase. For all major construction activities, curtaining of the site will be done to protect the surrounding areas from dust emissions. In addition, regular sprinkling of the water will be done on construction sites for dust suppression. During operation phase, no major impacts are envisaged on air quality. A budget provision of Rs. 12.00 lakh per year for 3 years has been made.
- xvii. The construction of dam and allied structures could lead to stockpiling and excavation activity on site, thereby exposing the base soil to erosion. The runoff from this site and also from muck storage/disposal sites, material storage area; may contain high quantity of Suspended Solids impacting the water quality of drainages in the area.
 - Conservation of water should be implemented at construction sites to minimize the generation of wastewater. Adequate care should be taken so that excess suspended solids in the wastewater are removed before these are disposed into water body or over land, although effluent is expected to be small to cause any adverse impact.
 - During Construction phase provision of septic tank/ soak pit of adequate capacity for labour camp so that it can function properly for the entire duration of construction phase.
 - During Operation, Commission of suitable treatment facilities to treat the sewage generated from the colony.

- Oil interceptors shall be provided for refuelling areas, vehicle parking, washing areas etc. All spills and collected petroleum products will be disposed off in accordance with SPCB guidelines.
- xviii. Total 75% dependable year yield at Garha dam site is computed as 92.81 MCM. Upstream utilization has been estimated as 23.50 MCM; making net yield at dam site as 69.31 MCM. 99% of the yield is contributed by monsoon flow and only about 6% or 5.64 MCM yield is from non-monsoon period. The project is designed with live storage/proposed utilization of 39.622 MCM, and remaining water from monsoon contribution will be continuously discharged for downstream users i.e. a surplus of 29.688 MCM, which is sufficient for downstream users, as assessed by WRD during planning of project.
- xix. The conservation of fishes under such conditions is one of important task because they typically use different habitats along the river stretch for spawning, feeding, shelter and growth. For the conservation of Fish following step will be adopted by WRD:-
- It is proposed that the reservoir of the proposed dam be stocked with fingerlings.
 - There is a fish seed farm in Betul district working under Fisherman Welfare & Fisheries Development department, Govt. of Madhya Pradesh. Fish seed can be procured from these fish seed farms. Funds for the management of fisheries for initial three years shall be provided by the project proponent.
 - Under the multispecies culture system, the indigenous Indian major carps Catla, Rohu and Mrigal can be extensively stocked in reservoir. or better utilization of the available food and maintain the food chain, stocking of *Labeo calbasu*, *Labeo fimbriatus* and *Labeo bata* species may also be considered. All these species constitute the native fauna of river Narmada.
- xx. Muck will be generated due to Construction of dam and Laying of water conductor system for conveyance of water up to farm level.
- The excavated material from the dam foundation will be fully utilised in dam construction.
 - Muck requiring disposal from laying pipeline network especially rising and gravity mains has been estimated as 120,237 m³. This quantity can also be utilized in dam construction.
 - Alternatively, this surplus soil will be utilized for refilling of the trenches and the approach road proposed to be constructed for carrying the pipes at site and preparation of platform for crane.
 - During excavation, care will be taken that top fertile soil is kept aside and will be used for re-filling the top area after laying pipe line. This top soil will be spread on adjoining farming fields with consent of farmers or alternatively will be used for green belt development.
 - Balance muck will be managed by spreading along the route in the low lying areas. Any further surplus muck, shall be laid in the community undulating area of the connected villages with the consent of concerning Gram-panchayat or Janpad Panchayat. The muck may also be used by nearby Gram Panchayats for construction of village roads etc. A lump sum provision of capital expenditure of Rs. 100 lakh has been made for muck disposal.
- xxi. Solid waste generated from temporary and permanent colonies in construction as well as operation phase requires special management to dispose of as warranted under the new Solid Wastes Management Rules, 2016. Following mitigation measures shall be adopted for waste management:

- Contractor shall be responsible for segregation of construction and demolition waste and handle the same in consultation with local authority.
- Waste construction material shall be recycled as far as possible and remaining disposed off at designated site in consultation with the local authority.
- Contractor will ensure that there is no littering or deposition of waste so as to prevent obstruction to the traffic or the public or drains.
- Any hazardous waste generated at site such as waste oil, used batteries, empty barrels/containers/liners contaminated with hazardous chemicals/wastes and contaminated cotton rags or other cleaning materials, etc. shall be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- A lump sum budget of Rs. 30.00 lakh has been kept for capital expenditure towards procurement of bins, carts, mobile toilets, etc. and Rs. 6 lakh per annum for recurring cost covering replaced items and manpower cost for 3 years of construction phase.

xxii. Following are proposed for Improvement in Public Health:

- One Ambulance with all the basic Medicare facilities at construction site
 - Improvement in existing health centers
 - Health Awareness/ Vaccination Camps
- Provision of Rs. 59 lakh has been kept for Public Health Delivery System; which includes Rs. 35 lakh in capital cost and Rs. 24 lakh in recurring cost to be spread over 3 years.

xxiii. To improve green cover, plantation in 21.25 hectare (0.25% of command) in several patches in non forest waste land is proposed subject to availability of suitable land. Budget has been prepared for plantation and maintenance for 5 years @ Rs. 4.50 lakh per hectare (Rs. 3.00 lakh for first 2 years and Rs. 50,000.00 each for next 3 years) i.e. a total provision of Rs. 96.625 lakh has been made.

Greenbelt development around reservoir periphery, approach roads, office/residential area: The construction of dam would result in formation of reservoir of 954.13 ha. Immediate slopes above FRL will be prone to slips due to increased moisture and fluctuation in the reservoir level. Therefore a belt of trees will be created over 5 ha around the periphery of reservoir area to check downward movement of any slope wash material and accidental fall of any wild animal into the reservoir.

Plantation around the residential and office complex as well as along the road side on approach roads to dam and office area is also proposed to be done so that greenery is developed. A total of about 3.50ha will be developed as green belt around dam.

The species to be planted will be chosen in consultation with local villagers and will be site specific. Suggested species for plantations are Teak, Dhawda, Sisham, Bamboo, Siras, Amaltas, Karanj, Neem, Sagon, Aonla, Mahua, Khair, Babool etc. The plantations will be maintained for five years & will be handed over to village Panchayat for management.

A total of 8.50ha of green belt will be developed. Budget has been prepared for plantation and maintenance for 5 years @ Rs. 4.50 lakh per hectare (Rs. 3.00 lakh for first 2 years and Rs. 50,000.00 each for next 3 years) i.e. a total provision of Rs. 38.25 lakh has been made.

xxiv. As per suggestion of Committee Aamganwadi's will be involved in plantation in command area. Budget will be provided under MANREGA and local horticulture and

fruit bearing species will be planted. The sewage waste shall be disposed after treatment through STP. The effluent to be discharged should conform to the Standard norms.

- xxv. Under the local infrastructure development, it is proposed to upgrade the existing school at Kodaroti village. This is the villages from where about 17 household will be displaced.
- xxvi. The agricultural fields and human settlements at some villages are very close to FRL of reservoir. Such places need protection for their land and houses for which it is proposed to construct concrete retaining wall along the stretch of reservoir at potentially vulnerable places having a combined length of about 0.50 km. The cost of protection wall (R. R. Stone masonry in C.M.1:5) of 3 m height has been assessed as Rs. 28.28 lakh.
- xxvii. 36 nuclear families from 17 households will be displaced belong to 2 villages viz. Kodaroti and Padhar Khurd. As the number is not large, they will be settled in existing villages based on their choice. Adequate infrastructure augmentation will be provided. A detailed proposal for resettlement of these families will be prepared in full consultation with project affected families and district administration in full compliance with The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 and rules made under the act. Financial requirement for implementation of the Rehabilitation and Resettlement plan and infrastructural facilities is Rs 1.99 Crore.
- xxviii. Disaster Management Plan has been prepared to deal with dam break event; with a budget of Rs. 100.00 lakh to cover the cost of alert system, communication system, emergency response organization, public information system, maintenance period, etc.

Benefit of the project: Better living Standards for famers of command area, Employment opportunities/to locals in project work and fisheries, Access to improved infrastructure facilities, Recreation and tourism potential may boost Improvement in environment through implementation of CAT, Command Area Development. Compensatory Afforestation, Green belt Development and different other plans. Better opportunities for cattle rearing. Increase in groundwater level.

Based on the information submitted at Para i to xxviii above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 649th meeting held on 17.12.2020 and decided to accept the recommendations of 465st SEAC meeting held on dated 07.11.2020.

Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dtd. 14th September 2006 & its amendments to the proposed Garha Irrigation Project at Village - Kodaroti, Sadar, District- Betul (MP) Gross Command Area- 11500 ha Cultureable command area (CCA): 8500ha; Catchment Area- 390.75 sq.m. Submergence Area 954.13 ha by Executive Engineer, Water Resources Division No. II, Office of the Executive Engineer, Dist. Betul, MP subject to the compliance of the Standard Conditions and the following additional Specific Conditions as recommended by SEIAA & SEAC in its meetings.

A. Specific Conditions as recommended by SEIAA

1. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/Committee.

2. The implementation of R & R Plan to be closely monitored to ensure that all project affected families (PAFs) get adequate & timely compensation.
3. Resettlement & Rehabilitation plan be implemented in consultation with the water resources department as approved by the State Govt
4. Besides the agricultural land, the rehabilitation of public buildings, infrastructures, monument etc. falling in the submergence area should also be included in the rehabilitation plan.
5. A monitoring Committee for R & R shall be constituted which must include representatives of project affected persons including form SC/ST community and at least a woman beneficiary.
6. A grievances redress mechanism is to be devised by WRD GoMP and put in place so that aggrieved PAFs and other stakeholders may approach the Authority easily for resolution of any dispute/conflict.
7. The implementation of Local Area Development Plan (LADP) to be closely monitored.
8. This being a seasonal stream/ river, a minimum environmental flow of 30 % in monsoon season should be released for downstream users.
9. Proposed Bio-diversity Conservation & Management Plan in EMP report should be implemented with State Forest Department. The allocated budget for this purpose shall be fully utilized and not to be diverted for any other purpose.
10. The catchment Area Treatment (CAT) Plan as proposed in EMP report shall be strictly implemented in consultation with Madhya Pradesh State Forest Department. Major works shall be completed before impounding of reservoir. The financial allocation for CAT Plan implementation shall be fully utilized and not to be diverted for any other purpose. Catchment Area Treatment Plan as has been proposed should be completed in five years.
11. To enhance the natural environmental quality & aesthetics of project site, greenbelt, as proposed in the EMP Report shall be undertaken in 20 ha of area. Allocated grant for this purpose shall be fully utilised and not to be diverted for any other purpose.
12. Fishery conservation & management plan as proposed shall be implemented in consultation with the Fisheries Department, Government of Madhya Pradesh. Allocated grant for this purpose shall be fully utilised and not to be diverted for any other purpose.
13. Occurrence of stagnant pools/slow moving water channels during construction and operation of the project may provide breeding source for vector mosquitoes and other parasites. The river should be properly channelized so that no small pools and puddles are allowed to be formed. Even after taking precaution, due to unforeseen situations, breeding of mosquito and resultant malaria or mosquito borne diseases can increase. If such a situation arises, it will be the responsibility of project authorities to take all steps i.e. residual insecticidal spray in all the project area and surrounding 3 km. Area keeping the flight range of mosquitoes in consideration. Also medical assistance to be provided to the affected people at the cost of the developer and appropriate health benefits may be initiated with the help of State Health Department.
14. If the water of reservoir is used for drinking water supply, it should be done after conventional treatment.
15. Regular monitoring of water quality (Surface and Ground) including heavy metals shall be undertaken in the project area and around the project area to ascertain the change, if

any, in the water quality due to leaching of contaminants, if any, from the increased use of chemical fertilizers and pesticides.

16. As the reservoir will be acting as balancing reservoir and there would be fluctuation of water level during peaking period, efforts be made to reduce impact on aquatic life including impacts during spawning period both at the upstream and downstream of the project.
17. PP should ensure to develop total 21.25ha area with plantation as prosed.
18. PP should ensure to submit half yearly compliance report with photographs of plantation in MP-SEIAA. If PP is failed to upload or submit two consecutive half yearly compliance reports of EC conditions to concerned authority (SEIAA and Regional Office, MoEF&CC, Gol,Bhopal) than prior environmental clearance issued to PP will automatically be treated as cancelled/ revoked as per OM No. 930/SEIAA/2019 dated 30.05.2019 issued by MPSEIAA.

B. Specific Conditions as recommended by SEAC

I Statutory Compliance

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project. (if applicable)
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, (if applicable.)
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (incase of the presence of any schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee
- v. NOC shall be obtained from National Commission of Seismic Design Parameters (NCSDS) of CWC.
- vi. Necessary approval of CEA shall be obtained for those projects having the project cost more than Rs. 1,000 crore.

II. Air quality monitoring and preservation

- i. Regular monitoring of various environmental parameters viz., Water Quality, Ambient Air Quality and Noise levels as per the CPCB guidelines at designated locations shall be carried out on monthly basis and a detailed database of the same shall be prepared and recorded. This shall be used as a baseline data for post construction EIA / Monitoring purposes.
- ii. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed standards.
- iii. Necessary control measures such as water sprinkling arrangements, etc. be taken up to arrest fugitive dust at all the construction sites.

III Water quality monitoring and preservation

- i. Conjunctive use of surface water to be planned in the project to check water logging as well as to increase crops productivity. The field drains shall be connected with

- natural drainage system.
- ii. Remodeling of existing natural drains (link drains) and connecting them with irrigated land through constructed field drains, collector drains, etc. are to be ensured on priority basis.
 - iii. Before impounding of the water, Cofferdams for both at the upstream and downstream are to be decommissioned as per EIA/EMP report so that once the project is commissioned; cofferdam should not create any adverse impact on water environment including the rock mass and muck used for the Cofferdam.
 - iv. As the reservoir will be acting as balancing reservoir and there would be fluctuation of water level during peaking period, efforts be made to reduce impact on aquatic life including impacts during spawning period both at the upstream and downstream of the project
 - v. Water depth sensors shall be installed at suitable locations to monitor e-flow. Hourly data to be collected and converted to discharge data. The Gauge and Discharge data in the form of Excel Sheet be submitted to the Regional Office, MoEF & CC and to the CWC on weekly basis
 - vi. Mixed irrigation shall be practiced and necessary awareness be given to all the farmers and trained in the use of such systems. Proper crops selection shall be carried out for making irrigation facility more effective.
 - vii. On Farm Development (OFD) works like landscaping, land leveling, drainage facilities, field irrigation channels and farm roads, etc. should be taken up in phased manner prior to the start of irrigation in the entire command area. The Command Area Development Plan should be strictly implemented as proposed in the EIA/EMP report.

IV Noise monitoring and prevention

- i. All the equipment likely to generate high noise shall be appropriately enclosed or inbuilt noise enclosures be provided so as to meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000, as amended in 2010 under the Environment Protection Act (EPA), 1986.
- ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time .

V Catchment Area Treatment Plan

- i. Catchment Area Treatment (CAT) Plan as proposed in the EIA/EMP report shall be implemented in consultation with the State Forest Department and shall be implemented in synchronization with the construction of the project.

Vi Waste Management

- i. Muck disposal (120237.00 cum.) be carried out only in the approved and earmarked sites. The dumping sites shall be located sufficiently away from the HFL of the river. Efforts be made to reuse the muck for construction and other filling purposes and balanced be disposed of at the designated disposal sites. Once the muck disposal sites are inactive, proper treatment measures like both engineering and biological measures be carried out so that sites are stabilized quickly.
- ii. Solid waste management should be planned in details. Land filling of plastic waste shall be avoided and instead be used for various purposes as envisaged in the EIA/EMP reports. Efforts be made to avoid one time use of plastics.

Vii Green Belt, EMP Cost, Fisheries and Wildlife Management

- i. Based on the recommendation of Cumulative Impact Assessment and Carrying capacity study of river basin or as per the ToR conditions or minimum 15% of the

average flow of four consecutive leanest months, whichever value is higher, shall be released as environmental flow.

- ii. Detailed information on species composition particular to fish species from previous study/literature be inventorised and proper management plan shall be prepared for in-situ conservation in the streams, tributaries of river and the main river itself for which adequate budget provision be made and followed strictly.
- iii. Wildlife Conservation Plan prepared for both core and buffer zones shall be implemented in consultation with the local State Forest Department.
- iv. To enrich the habitat of the project site, plantation shall be raised as envisaged in the EIA/EMP report. Plantation to be developed along the periphery of the reservoir in multi-layers with local indigenous species in consultation with the local State Forest Department.
- v. Compensatory afforestation programme shall be implemented as per the plan approved.
- vi. Fish ladder/pass as envisaged in the EIA/EMP report shall be provided for migration of fishes. Regular monitoring of this facility be carried out to ensure its effectiveness.

Viii Public hearing and Human health issues

- i. Resettlement & Rehabilitation (R&R) involved in this project hence, Gazette notification of concerned sections under 11&19 shall be obtained and carried out as and when approved by the district administration.
- ii. Budget provisions made for the community and social development plan including community welfare schemes shall be implemented in toto.
- iii. Preventive measures viz. fuming and spraying of mosquito control shall be done in and around the labour colonies, affected villages, stagnated pools, etc. Provisions be made to not to create any stagnated pools to avoid creation of breeding grounds of the vector borne diseases
- iv. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- v. Labour force to be engaged for construction works shall be examined thoroughly and adequately treated before issuing them work permit. Medical facilities shall be provided at the construction sites.
- vi. Early Warning Telemetric system shall be installed in the upper catchment area of the project for advance intimation of flood forecast.
- vii. Emergency preparedness plan be made for any eventuality of the dam failure and shall be implemented as per the Dam Break Analysis.

Ix EMP

A budgetary provision of Rs. 990.09 Lakh is made Environmental Management Plan wherein following activities has been proposed by PP:

S no.	Activities	Capital Cost (Rs. In lakh)	Recurring Cost (Rs. In lakh)					Total Cost (Rs. In lakh)
			Year 1	Year 2	Year 3	Year 4	Year 5	
1	Air Pollution Control	-	12.00	12.00	12.00	--	--	36.00
2	Noise Pollution Control	--	2.00	1.50	1.50	--	--	5.00
3	Water Pollution Control	--	15.00	15.00	15.00	--	--	45.00

4	Fisheries Development	23.55				--	--	23.55
5	Muck Management	--	35.00	35.00	30.00	--	--	100.00
6	Sanitation and Solid Waste Management	30.00	6.00	6.00	6.00	--	--	48.00
7	Facilities in Labour Camp/ Amenities for Workers and PPEs	38.00	9.50	10.50	10.50	--	--	68.50
8	Public Health	35.00	8.00	8.00	8.00	--	--	59.00
9	Energy Conservation Measures	16.00	8.00	8.00	8.00	--	--	40.00
10	Biodiversity Conservation Plan	--	31.88	31.88	10.63	10.63	10.63	95.65
11	Green Belt Development Plan	--	12.75	12.75	4.25	4.25	4.25	38.25
12	Reservoir Rim Treatment	28.28				--	--	28.28
13	Restoration of Construction sites	--		10.00	10.00	--	--	20.00
14	COVID 19 Consideration	--	4.00	3.00	3.00	--	--	10.00
15	Awareness and Training of Farmers	--	2.50	2.50	2.50	2.50	2.50	12.50
16	Rehabilitation & Resettlement Plan	199	--	--	--	--	--	199.00
17	Disaster Management Plan	--	--	--	--	50.00	50.00	100.00
18	Environment Quality Monitoring	1.00	20.12	20.12	20.12	--	--	61.36
	TOTAL (Rs. In Lakh)	370.83	166.75	176.25	141.5	67.38	67.38	990.09

- i. Skill mapping be undertaken for the youths of the affected project area and based on the skill mapping, necessary trainings to the youths be provided for their long time livelihood generation
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will

directly to the head of the organization.

- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year-wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- v. Post EIA and SIA be prepared for the project through a third party and evaluation report be submitted to the Ministry after five years of commissioning of the project.
- vi. Multi Disciplinary Committee (MDC) be constituted with experts from Ecology, Forestry, Wildlife, Sociology, Soil Conservation, Fisheries, NGO, etc. to oversee implementation of various environmental safeguards proposed in EIA/EMP report during construction of the project. The monitoring report of the Committee shall be uploaded in the website of the Company.
- vii. Formation of Water User Association/Co-operative be made by involvement of the whole community be ensured for discipline use of available water for irrigation purposes.

X Miscellaneous

- i. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- ii. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- iii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company
- iv. The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
- v. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- vi. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- vii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- viii. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- ix. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

Standard Conditions:

1. The Regional Office of MoEF, Gol, Bhopal & MPPCB shall monitor compliance of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report, Environmental Management Plan and Monitoring Plan should be given to Regional Office, MoEF, Gol, Bhopal & MPPCB. The project proponent shall provide full cooperation during their inspection and all required documents/data to the officials.
2. The responsibility of implementation of environmental safeguards and RR plan rests fully with the Water Resources Department GoMP and Government of Madhya Pradesh. The WRD Government of Madhya Pradesh should also monitor implementation of EMP at regular intervals preferably at the level of Principal Secretary.
3. Necessary livelihood plan for oustees is to be prepared, if found necessary, in consultation with State Government Departments concerned. The Water Resources Department Government of Madhya Pradesh should submit compliance on this components & also while submitting six monthly compliance report to MoEF, Gol, Regional Office, Bhopal.
4. The monitored data for criteria pollutant levels, namely; SPM, RSPM, SO₂, NO_x (ambient levels) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the dam site in the public domain.
5. The equipment likely to generated high noise levels during construction period or otherwise shall have to meet the ambient noise level standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000 as amended from time to time under the Environment Protection Act (EPA), 1986. Workers shall be provided with ear plugs / muffs.
6. The Project Proponent has to submit half yearly compliance report of the stipulated terms and conditions in the Prior Environmental Clearance, including the results of monitored data in hard and soft copy to the Regulatory Authority, respective Zonal Office of CPCB and the SPCB and Regional Office of MoEF, Gol at Bhopal on 1st June and 1st December of each calendar year.
7. Adequate financial provision should be made in the total budget of the project for implementation of the above suggestion safeguard measures. The funds earmarked for environmental protection measures shall be kept in separate account and shall be fully utilized for the said purpose and not to be diverted for other purpose. Year wise expenditure shall be reported to the MoEF, Gol, Regional Office located at Bhopal, CPCB & MPCB. In case of revision of the project cost due to price level change the cost of EMP shall also be updated proportionately and revised upwardly.
8. Water User Associated (WUA) Co-operative should have to be formed for efficient water use. Involvement of the community for disciplined and wise use of available waters should be ensured through training programme / effective interactive sessions.
9. On-farm development (OFD) works are to be completed by the project proponent simultaneously and before the commencement of irrigation. WUA's (Water Users Associations) should be made functional to undertake the OFD works. Special &

- critical monitoring of progress to be undertaken by the Water Resources Department GoMP to ensure that OFD works are completed along with main canal networks.
10. The MP SEIAA or any other competent authority reserves the right to alter/modify or add additional, safeguard measures subsequently, if found necessary and to take action, including revoking of the clearance under provisions of the environment (Protection) Act 1986 to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
 11. The Prior Environmental Clearance letter is valid for a period of 10 years from the date of issue of this letter for commissioning of the project.
 12. A copy of the Prior Environmental Clearance issued by MP SEIAA shall be submitted by the Project Proponent to the Heads of the Local Bodies, Panchayat / Zila Parishad / Municipal Bodies as applicable, local NGO, if any, in addition to the associated Government Department from whom any suggestion / representations were received while processing the proposal and those responsible for controlling the proposed project, who in turn has to display the same for 30 days from the date of receipt. The clearance letter shall also be put on website by the project proponent.
 13. State Pollution Control board / committee shall display a copy of the clearance letter at the regional office, district industries centre and collector's/tehsildar's office for 30 days.
 14. The Project Proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the State Level Environment Impact Assessment Authority (SEIAA) website at www.mpseiaa.nic.in and copy the same shall be forwarded to the Regional Office, MoEF&CC, Gol, Bhopal.
 15. After 5 years of the commissioning of the project a study shall be undertaken regarding impact of the project on the environment and downstream ecology. The study shall be undertaken by an independent agency to be decided in consultation with the Ministry / authority.
 16. A multi disciplinary committee (MDC) for monitoring the implementation of environmental safe guards during construction shall be constituted by the project proponent (PP) in consultation with the state environment ministry as early as possible. A panel may be proposed by the PP and submitted to ministry. The Project Proponent shall organize six monthly meetings of the committee and submit the monitoring report to the ministry.
 17. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF.
 18. Any other clearance required from any other organization / department should be obtained before commencement of works and commissioning of the project, as applicable.

19. Any appeal against this prior environmental clearance shall lie with the Green Tribunal, if necessary, within a period of 30 days from the date of issue, as prescribed under Section 10 of the National Green Tribunal Act 2010.

5799
Endt No. / SEIAA/ 2021

Dated

22.1.21

(Tanvi Sundriyal)
Member Secretary

Copy to:-

- (1). Principal Secretary, Urban Development & Environment Deptt. 3rd Floor, Mantralaya Vallabh Bhawan, Bhopal.
- (2). Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony Bhopal-462016.
- (3). Member Secretary, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016.
- (4). The Collector, Distt- Betul (M.P.).
- (5). The Engineer-in-Chief WRD, Jalsansadhan Bhawan, Tulsi Nagar Bhopal (M.P)
- (6). The chief Engineer Water Resources Department Hoshangabad(MP)
- (7). The Comissioner, Command Area Development Authority, Vishveswaraiya Bhawan, (MP)
- (8). Suprintending Engineer Water Resources Circle Betul (MP)
- (9). Director, I.A. Division, Monitoring Cell, MoEF, GoI, Ministry of Environment & Forest Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 110 003
- (10). Director (S), Regional office of the MOEF, (Western Region), Kendriya Paryavaran Bhawan, Link Road No. 3, Ravi Shankar Nagar, Bhopal-462016.
- (11). Guard file.

(Alok Nayak)
Officer-in-Charge