



**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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To,  
Executive Engineer,  
Panchamnagar Survey Div Hatta  
Damoh (MP)-470661

No.: 7693 /SEIAA/21

Date: 25.3.21

**Sub:-Case No.5772/2018:** Prior Environment Clearance for Sitanagar Irrigation Project in command area 16200 ha, Catchment area 3896.97 sq.mtr. (Dam length 1671 m, Spillway 204 m, Maximum height of Dam 27.50 m) for live capacity 59.59 Mcm at Village Summer & Bijori Sirsiya District Damoh by Executive Engineer, Panchamnagar Survey Div Hatta Damoh (MP) email: [panchamnagar01@gmail.com](mailto:panchamnagar01@gmail.com)  
Environmental Consultant: Voyants Solutions Pvt. Ltd.

**Ref:** Your online application (SIA/MP/RIV/28970/2018) dtd. 01.02.21 received in SEIAA office on 11.02.2021

With reference to the 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 14<sup>th</sup> September 2006 and its amendments, on the basis of the mandatory documents enclosed with the application viz., Form- I, pre-feasibility report, EIA report, ppt. and additional clarifications furnished in response to observations by the State Expert Appraisal Committee (SEAC) and State Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

- i. Sita Nagar Irrigation project is proposed on river Sonar, a tributary of Ken River, the latter finally joins river Yamuna. The project is situated in Damoh block and is 30 km from district head quarter.
- ii. The proposed dam site is located near Sita Nagar Village on banks of Sonar river in Damoh Tehsil at latitude 24 02'30"N and longitude 79 025'22"E and geographically covered under SOI Topo Sheet No. 54P/8
- iii. The project envisages construction of a 27.50 m high and 3843.1 m long composite dam across Sonar river near village Sumer and Bijori Sirsiya in Damoh District of Madhya Pradesh to provide micro- irrigation facility to 16200ha command area, covered under 24 and 60 villages in Pathariya and Damoh Tehsil respectively.
- iv. It is designed to have a gross storage of 65.88 MCM and after accounting for 6.29MCM dead storage, live storage of 59.59 MCM water to provide irrigation to command area of 16200 ha (CCA) through a well-planned network of pressurized

Case No. 5772/2018

Issued vide letter no. .... dated .....

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



- pipe irrigation network. For facilitating pressurized irrigation two rising main of length 2 and 13 km shall be provided to feed 2 gravity mains. The power requirement for lifting shall be 4.60MW. Entire submergence area at FRL (871.933 ha) and gross command area (16200 ha) are covered in MP.
- v. At present irrigation in the project area from all sources is only 32.10% of the net cropped area. To harness the surplus water available in Sonar river, an assured source of surface irrigation is vehemently needed in the area.
  - vi. The project has been conceived with a view to harness Sonar river for providing irrigation facility to 16200 ha for 8600 ha of Wheat and 7600 Ha of Gram during Rabi with 100 % annual irrigation intensity.
  - vii. The total catchment area of Sonar River up to the proposed site is 3896.97 sq. km. The catchment intercepted by 4 medium / major irrigation schemes on Bewas River is 1465.56 sq. km. The catchment intercepted by 6 medium / major irrigation schemes on Sonar River and its tributaries other than Bewas is 740.43 sq. km. Thus. The intercepted catchment by upstream projects is 2205.99 ha leaving a free draining/net catchment of 1690.98 sq. km for which CAT plan shall be prepared.
  - viii. Command area to be benefited from the project is covered under 82 villages in Pathariya (22) and Damoh tehsils (60) of district Damoh.
  - ix. This is a River Valley projects involving < 10,000 ha. of culturable command area and denies the general conditions falls under category "B" and have been mentioned at SN. 1(c) column B of Schedule of EIA Notification, hence such projects are required to obtain prior EC from the SEIAA. As per EIA notification dated 14.8.2018, all irrigation projects with CCA > 10000 ha and <50000 ha shall be treated as 'B1' and shall be appraised by the SEIAA.
  - x. There is no wildlife sanctuary, National park (DFO letter dtd. 14.08.18) and interstate boundary (PWD letter dtd.14.08.18) within 10 km of the project area, hence general conditions is not attracted.
  - xi. No archaeological monument of national importance lies either in the project area or in its submergence area. There is also no structure of national heritage in the area.
  - xii. The Public Hearing was conducted on 14th September, 2020 at Gram Panchyat Bhawan Aankh Kheda, Tehsil and District Damoh, under the Chairmanship of Additional District Collector, Damoh. The main concern was of inadequate compensation. The Project proponent assured the local stake-holders that their grievances and logical demands shall be properly addressed as per prevalent norms and rules. The project proponent also stated to adhere to Environmental norms and standards in project activities. The respondents were also assured that compensation for land and other assets to be acquired and other R&R grants shall be as per provisions enshrined under "The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013"
  - xiii. The case was discussed in 336th SEAC dated 04/12/2018 wherein ToR was recommended. PP has submitted the EIA report vide letter dated 01.02.2021 which was forwarded to SEAC vide letter no. 6422 dated 15.02.2021. Accordingly the case



was considered in SEAC meetings 485<sup>th</sup> SEAC meeting dtd. 25.02.21 and is recommended for grant of prior EC subject to special conditions.

- xiv. Total land requirement for project shall be 871.933 ha of which the forest, private and government land shall be 0.00 ha, 286.199 ha and 585.734 ha respectively. Nine villages consisting of 1013 families are likely to be affected by this project of which 762 shall be displaced. The displaced families (762) shall be resettled at suitable locations and shall be adequately compensated as per provision of RFCT\_LARR, 2013.

The award has been made by the collector for 286.199 ha land covered under 9 villages. The Collector Damoh has on 18.2.2019, allotted 25 ha revenue land falling in village Kalyanpura in favour of Government of Madhya Pradesh for establishing R&R colony for resettlement of families displaced due to project. Provisions of Rs 12034 lakh has been made under R&R Plan.

- xv. The land use class of agriculture land (286.199ha) and barren land (585.734ha) coming under submergence shall change into waterbody while the land use class for land(private/forest/revenue) coming under dam seat and other components of project shall change to built-up area. The change shall be permanent and irreversible. Due to implementation of reservoir rim, catchment area treatment plan and green belt plan there shall be improvement in vegetal cover in the project area. There shall be no change in land use and land cover of the land temporary acquired for main canal and distribution system comprising of pipes which shall be laid underground.
- xvi. Presently about 5200 ha of command area is being cultivated in Rabi with the prominent crop being wheat 3000 ha (18.5 %) followed by Gram 2200 ha (13.60%). PP has proposed to bring command area under hybrid variety of wheat (8600 ha) and gram (7600 ha) during Rabi. The Annual Crop intensity has been assessed as 100 % of the CCA. During Rabi the irrigation water requirement has been worked as 5.67 cumec at field outlet.
- xvii. 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. Dust mask will be provided to the workers. Regular maintenance of machineries Trucks/ dumpers will not be overloaded, and their speed kept within the prescribed limits. Copious sprinkling of water at the work site and haul roads shall be carried out. Wet drilling shall be adopted. Periodical monitoring of air quality. During operation phase, no major impacts are envisaged on air quality. For control of air pollution on haul roads by sprinkling water through tankers, a provision of Rs. 40 lakh made under Management Plan.
- xviii. The total quantity of muck / debris to be generated due to the project, shall be 280747 cum, of which 241094 cum shall be consumed on project work leaving 39653 cum which shall be disposed by backfilling voids created in borrow area in submergence zone which is the most logical and economical way for disposal of muck. Provision of Rs. 15.0 lakh made under Muck Management Plan.



- xix. Fragmentation of habitat and consequent increase in temporary stress levels of wildlife during construction phase for mitigation of which Wildlife and Bio-diversity Management Plan (Rs20 lakh) has been proposed.
- xx. Movement of fish across dam shall be stopped but the reservoir on upstream shall continue a habitat for the indigenous species as well as reservoir species for which PP has proposed Fisheries Management Plan (Rs154 lakh).
- xxi. The leakage of POL and washings of workshop floors and washing of vehicle and equipment shall be collected in oil separators provided in the concrete drains before disposal on water body/ land. The sewage generated from project colony and various labour camps is proposed to be treated in STP. For control of water pollution, a provision of Rs. 8 lakhs made.
- xxii. The silt contribution of private land holding is very significant because it interrupts the natural drainage and contributes to heavy soil erosion as compared to the other land use categories like dense forest/open forest. For controlling of this PP has proposed following Horticultural development Plan along with other Environmental Management Plan.
- There will be 5 hectares of land developed around the proposed submergence area of Sitanagar Medium Irrigation Dam.
  - 2.5 hectares of land shall be developed in right and left bank of the submergence area.
  - 900 saplings will be planted in each hectares of the land, thus, cumulatively 4,500 saplings will be planted.
  - Mainly fruit bearing species will be used for plantation to maintain the food source of the area's faunal and avian species.
  - Shrubs and herbs having bright flower, aesthetic value and medicinal value shall be planted in between spaces of the plants.
  - The estimated cost for the horticultural development area shall be 1.84/ha., i.e. 9.2 lakhs. for 7 years of maintenance requirement.
- xxiii. To avoid erosion of soil and prevention of land slips from the banks surrounding the pond, Green belt around the reservoir would be created in 22 ha for which a provision of Rs 62 lakh has been earmarked. For protection of agricultural fields which are very close to FRL of reservoir and for treatment at the mouth of streams joining the reservoir engineering measures have been suggested under Reservoir Rim treatment Plan (Rs 61 lakh).
- xxiv. Reduction in reservoir capacity and water available for the designated use which shall be addressed through implementation of Biological measures in 30 ha and engineering measures under CAT Plan (Rs 830.00 lakh). The total trees being planted under Environment Management Plan is as under Catchment Area Treatment Plan
- a. Normal Afforestation :** Plantation under normal afforestation component shall be carried through identified user groups in net catchment area 1690.98 sq. km. Plantations will be maintained for five years. The cost of works under normal afforestation component encompassing the free draining catchment area of the



- project has been assessed as **Rs. 222.00 lakhs**. As per the Normal Afforestation 120 ha land is proposed @ 1100 trees per Ha totalling to 1,32,000
- b. **Enrichment Plantation:** Under enrichment plantation 300 ha @ 500 trees/saplings per ha totalling to 1, 50,000. The cost analysis of enrichment plantation per hectare with 500 plants with maintenance cost has been assessed as Rs. 1.33 lakh/ha.
- c. **Horticulture Development:** An area of 5 ha have been earmarked to be undertaken for horticulture and private pasture development respectively under this plan as a joint venture with the owners of the land with their share of the cost being the cost of maintenance. 2.5 ha on Right Bank and 2.5 on the left bank. Rest pasture land will be on the private land near the submergence area above FRL and adjoin the green belt area. Horticulture development will be in 5 ha @900 plants per ha totalling to 4500. The estimated cost for the horticultural development area shall be 1.84/ha., i.e. 9.2 lakhs. for 7 years of maintenance requirement.
- **Under Greenbelt:** Maximum of 1100 plants will be planted in 1 ha area and the plantation belt having 10 m width this 22 ha of land is identified around the reservoir 12 ha on Right bank and 10 ha on left bank. The plant species to be planted are as per the Slide no. 49 and 50. Herbs Shrubs and trees are proposed with- in three layer plantation.Total number of plants will be planted @ 1100 x 22 totalling to 24,200 plants
- **Approach Road to the Dam Site:** The plantation will be made both Sites of the approach road with 2 layers of plantation, with a minimum distance between 2 plants 20 m.Total 800 plants will be planted in 8 km length of approach road. INR 62 lakhs is ear marked for plantation in EMP.
- Hence the total plants to be planted under Environment Management Plan is 3,11,500.**

xxv. Total cost of project INR 518.09 crores with B.C. Ratio 1.64:1.

xxvi. Provisions of Rs175 lakh has been made by the project proponent under Local Area Development Plan for the infrastructure development in the project area as per the needs of the local population. The CER targets have been incorporated in local area development programme and have been renamed under CER as per directions of the committee as mentioned in the office memorandum dated 30 September 2020.

S.No.	Description	Quantity	Unit	Amount (Rs. Lakh)	I Year		II Year		III Year	
					Phy.	Fin (Rs.Lakh)	Phy.	Fin (Rs.Lakh)	Phy.	Fin (Rs. Lakh)
(i)	Supply of 2 No. Hemodialysis Machine with RO System (Rs 8.50 lakh each) and 1 Neonatal Ventilator (Rs 19 lakh) to District Hospital Damoh.	3	No.	36.00	2	27.50	1	8.50	-	-



2	Infrastructure Development									
(i)	Providing 80 No., 15 Watts Solar Street Light @Rs 30000/No	80	No.	24.00	30	9.00	30	9.00	20	6.00
(ii)	Construction of 3 GC sheet roofing market sheds (6mx9m=54 sqm) @ Rs 9200/sqm	3	No.	15.00	1	5.00	1	5.00	1	5.00
(iii)	Construction of Farmer's Training Center (225 sqm) @Rs16600/sqm	1	No.	37.35	1	37.35	-	-	-	-
3	Sanitation facilities									
(i)	Renovation of 4000 m storm water drains @Rs 7500/m	4000	m	30.00	1000	7.50	1500	11.25	1500	11.25
4	Skill Development and Training									
(i)	Training to 10800 farmers for operation of micro irrigation system@Rs300 each	10800	No.	32.40	-	-	5400	16.20	5400	16.20
Total				174.75		86.35		49.95		38.45

The amount of Rs. 36/-Lakhs have been utilized proposed under health care as requirement of District Collector, Damoh medical equipment. PP has submitted letter dtd. 15.03.21 issued by District Collector for the implementation of CER activities.

**Project Benefit:** Project benefits *inter alia* shall include the benefits like (i) Increased Irrigation Potential (16200ha); (ii) Sustained Water Availability (50.68 MCM) for Agriculture; (iii) Increased Green cover (22 ha) ;(iv) Improvement in Ground Water Recharge (3.83 MCM) and (v)Employment Potential / Fisheries (500 labour and 218 fishermen).

Based on the information submitted at Para i to xxvi above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 666<sup>th</sup> meeting held on 17.03.2021 and decided to accept the recommendations of 485<sup>th</sup> SEAC meeting held on dtd. 25.02.21.

Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dtd. 14<sup>th</sup> September 2006 & its amendments for the proposed "Sitnagar Irrigation Project" in command area 16200 ha, Catchment area 3896.97 sq.mtr. (Dam length 1671 m, Spillway 204 m, Maximum height of Dam 27.50 m) for live capacity 59.59 Mcm at Village Summer & Bijori Sirsiya District Damoh by Executive Engineer, Panchannagar Survey Div Hatta Damoh (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 green area by planting total 3, 11, 500 trees as proposed under. Normal Afforestation, Enrichment Plantation, Horticulture Development, Under Greenbelt, Approach Road to the Dam Site etc.
18. PP should ensure to implement the CER targets in local area development programme as suggested by the authority.
19. PP should ensure to submit half yearly compliance report and CER activity 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 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 schedule-I species in the study area)
- ii. 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

### **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. 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.
- iii. 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
  - iv. 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
  - v. 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.
  - vi. 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 area 2042.18sq. meter 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(2.81 lakh 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, 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 inventoried 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.

#### **VIII. Public hearing and Human health issues**

- i. Resettlement & Rehabilitation plan be implemented in consultation with the State Govt. as approved by the State Govt.
- 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 & Corporate Environment Responsibility**

- i. A budgetary provision of Rs. 13765.00 Lakhs is made for Environmental Management Plan. Capital cost Rs. 13316.80lakhs and Rs.149.40 lakhs as recurring cost.
  - Out of which Rs. 44 Lakhs as capital and 6 lakhs as recurring cost provided for Green Belt Development Plan in EMP.
  - No muck disposal shall be done outside of the project site; Rs. 15 Lakh is made for Muck Management Plan in the EMP.
  - Provision of Rs.830 Lakhs is made for Catchment Area Treatment Plan in EMP.
  - Rs.154 Lakh is made for Fisheries Management Plan in EMP.
  - Provision of Rs.94 Lakh is made for Command Area Development Plain EMP.
- ii. The project proponent shall comply with the provisions contained in this Ministry's
- iii. OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.
- iv. 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
- v. 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.
- vi. 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.



- vii. 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.

#### **X. Miscellaneous**

- i. 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
- ii. 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.
- iii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- iv. 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.
- v. 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).
- vi. 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, SO<sub>2</sub>, NO<sub>x</sub> (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.

(Tanvi Sundriyal )  
Member Secretary

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Endt No. / SEIAA/ 2021

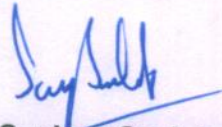
Dated 25.3.21

Copy to:-

- (1). Principal Secretary, Urban Development & Environment Deptt. 3<sup>rd</sup> 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- Damoh (M.P.).
- (5). The Principal Chief Conservator of forest, Ground floor Satpuda Bhawan, Bhopal (M.P)



- (6). Director, I.A. Division, Monitoring Cell, MoEF, GoI, Ministry of Environment & Forest Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 110 003
- (7). Director (S), Regional office of the MOEF, (Western Region), Kendriya Paryavaran Bhawan, Link Road No. 3, Ravi Shankar Nagar, Bhopal-462016.
- (8). Guard file.

  
(Dr. Sanjeev Sachdev)  
Officer-in-Charge  
*or*

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Case No. 5772/2018

Issued vide letter no. .... dated .....

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