



State Environment Impact Assessment Authority, M.P.
(Government of India, Ministry of Environment & Forests)

Environmental Planning Coordination Organization (EPCO)
Paryavaran Parisar, E-5, Arera Colony
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No: 429 /SEIAA/2014

Date: 11/8/14

To,
Shri M.G. Choubey, Engineer-in Chief
Department of Water Resources
Tulsi Nagar, Bhopal (MP) – 462003

Sub:- Case no. 689/2012: Prior Environmental Clearance for Semri Medium Project Catchment area 92.75 sqkm. Gross Storage Capacity 33.13 MCM, Live Storage Capacity 29.85 MCM, Gross Command area 6350 ha, Cultivable Command area 5700 ha at village Markheda Tappa, Tehsil Begamganj, District Raisen, MP by Shri M. G. Choubey, Engineer-in-Chief, Department of Water Resources, Tulsi Nagar, Bhopal – 462003

This has reference to your letter No. 84/21/D-6/Karya/2012, dated 16.03.12 received in the SEIAA office on 20.03.2012 and subsequent letters seeking Prior Environmental Clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Form I, pre-feasibility report, ToR and subsequently submission of EIA report, public hearing documents and additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) and Environment Impact Assessment Authority (SEIAA) constituted by competent Authority.

- (i) The proposed project is a river-valley project with catchment area of 92.75 sqkm and gross storage capacity of 33.13 MCM. The Live storage capacity is reported to be 29.85 MCM and CCA is 5700 ha. The proponent is Department of Water Resources GoMP through Shri M.G. Choubey, Engineer-in Chief Department of Water Resources Tulsi Nagar, Bhopal (MP)
- (ii) The Cultivable Command Area (CCA) is 5700 ha and is less than 10,000 ha. There is no wildlife sanctuary, National park or interstate boundary within 10 km of the project area, hence General Conditions are not attracted. The project pertains to Item No. 1(c) category 'B' of the EIA Notification issued by the Ministry of Environment & Forests vide S.O.1533 (E), dtd. September 14, 2006.

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▪ **Correspondence Address:** Member Secretary, SEIAA, Environmental Planning and Coordination Organisation (EPCO), Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462016

▪ **Registration No.:** To be quoted in registered cases for correspondence

Case no. 689/2012

- (iii) Semri Medium Project is proposed on the river Semri, a tributary of river Bina comprising a part of Betwa basin. The Semri Medium Irrigation project has an Earthen Dam with maximum height of 18.70 m, the Gross Command area is 6350 ha. and Cultivable Command area is 5700 ha. It is proposed to irrigate an area of 700 ha in Kharif season and 5000 ha of area in rabi season.
- (iv) The land required for various project components is of about 943.275 ha. The Project includes 825.912 ha (87.75%) of private land and 24.813 ha (2.63%) of Revenue land and 92.55 ha (9.81%) forest land.
- (v) PP has obtained Stage I Forest Clearance from MoEF, Govt. of India (vide letter No F. no. 8-53/2012-FC dated 02-04-2013) as per Indian Forest Act 1980. PP has proposed to take up compensatory afforestation in double area i.e. 185.10 ha. The afforestation work will be done by Forest Deptt.
- (vi) The total 1727 no. of families are losing land under reservoir submergence and other project work.No family is losing homestead. The project envisages Resettlement and Rehabilitation plan with budgetary plan of Rs. 271.55 million and also Local Area Development Plan.(LADP)
- (vii) The project EMP includes Catchment Area Treatment plan including contour bunding in 400 ha, Nala bunding (12 nos), and gap plantation, pasture development, social forestry, green belt development in an area of 20 ha.
- (viii) 30% of discharge will be maintained in the river during monsoon season for environmental flow and for downstream users. For enhancement of fisheries potential supplementary stocking of reservoir @ 300 fingerlings/ha is proposed.
- (ix) PP has proposed septic tank and STP for treatment of sewage generated from project colony.
- (x) The project has been considered in accordance with the provisions of the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated September 14, 2006 and its amendments.

Based on the information submitted as at Para ii to ix above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 154th meeting held on 26.07.2014 and decided to accept the recommendations of 140th SEAC meeting dtd. 30.08.2013 with 03 special conditions.

Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dated September 14, 2006, for proposed Semri Medium Project catchment area 92.75 sqkm. Gross storage capacity 33.13 MCM, Live storage capacity 29.85 MCM, Gross Command area 6350 ha, Cultivable Command area 5700 ha at village Markheda Tappa, Tehsil Begamganj, District Raisen, MP by Shri M. G. Choubey, Engineer-in-Chief, Department of Water Resources, Tulsi Nagar, Bhopal - 462003 subject to three conditions of 140th SEAC meeting dtd. 30.08.2013 the Standard Conditions at **Annexure-1**, and following Specific Conditions:-

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1. The inputs given by the participants during Public hearing should be properly redressed. All the promises and assurances made during the public hearing shall be fulfilled completely by the water resources department GoMP. The implementation of R & R Plan to be closely monitored to ensure that all project affected families (PAFs) get adequate & timely compensation.
2. 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.
3. A monitoring Committee for R & R shall be constituted which must include representatives of project affected persons including from SC/ST community and at least a woman beneficiary.
4. 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.
5. The implementation of Local Area Development Plan (LADP) to be closely monitored.
6. This being a seasonal stream/ river, a minimum environmental flow of 30 % in monsoon season should be released for downstream users.
7. Proposed Compensatory Afforestation programme in 185.10 ha shall be taken-up in consultation with State Forest Department. The allocated grant for this purpose shall be fully utilized and not to be diverted for any other purpose. For compensatory afforestation programme, preference shall be given to native species.
8. 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.
9. 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.
10. 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.
11. Fishery conservation & management plan as proposed shall be implemented in consultation with the Fisheries Department, Government of Madhya Pradesh. The stocking density of the reservoir shall be around 300 fingerlings per ha. Allocated grant for this purpose shall be fully utilised and not to be diverted for any other purpose.
12. 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.
13. If the water of reservoir is used for drinking water supply, it should be done after

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conventional treatment.

14. 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.
15. Quality of all types of waters to be periodically monitored to optimize various parameters in future.
16. Regular 'Fluoride' monitoring to be done in the reservoir.
17. Salinity of the command area has to be periodically monitored so as to regulate the quality of dam water with respect to the TDS.

Encl: Standard Conditions (Annex-I)

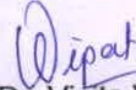


(Dipali Rastogi)
Member Secretary

Encl No. 480 /SEIAA/14 Dated: 11/8/14

Copy to:-

1. Principal Secretary, Department of Environment, Government of Madhya Pradesh, Mantralya, Bhopal.
2. Principal Secretary, Department of Water Resource Government of Madhya Pradesh, Mantralya, Bhopal
3. Commissioner Command Area Development Water Resource Deptt., Bhopal (M.P)
4. Member Secretary, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016
5. Member Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5. Arera Colony Bhopal-4620 16
6. District Collector, Raisen, (M.P.)
7. Division, Monitoring Cell, MoEF & Climate Change, GOI, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj New Delhi- 110003
8. Regional Officer, Regional Office of the Ministry of Environment & Forest, GoI, Western Region, Kendriya Paryavarn Bhawan, Link Road No. 3 Ravi Shankar Nagar, Regional office of the MOEF, Bhopal-462016
9. Guard file.



(Dr. Vinita Vipat)
Officer-in-Charge

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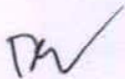
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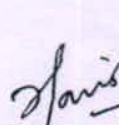
Annexure-1

Part-B: Standard Conditions related to Activity 1 (c)- River Valley Projects of Category-B under the Schedule of Ministry of Environment and Forest Gol notification dtd 14-09-06

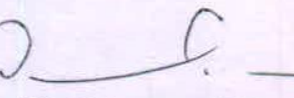
1. Adequate arrangements for providing free fuel like kerosene/wood/LPG shall be made at the project cost for the labors engaged in the construction work so that indiscriminate felling of trees is prevented.
2. Medical facilities as well as recreational facilities shall also be provided to the laborers.
3. The laborers to be engaged for construction works shall be thoroughly examined by health personnel and adequately treated before issuing them work permit.
4. Water sprinkling arrangements shall be made to suppress the fugitive emissions and shall ensure that the ambient air quality is well within the prescribed norms by MoEF/ CPCB.
5. Potable drinking water and proper sanitary facilities shall be provided for the labor force
6. Consolidation and compilation of the muck should be carried-out in the muck dump sites and the dump sites should be above high flood level. Restoration of construction area including dumping sites of excavated materials shall be ensured by leveling, filling up of borrow pits, landscaping etc. The area should be properly treated with suitable plantation.
7. 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
8. Action plan with respect to suggestion/improvement and recommendations made and agreed during public hearing consultation shall be submitted to the Regional Office, MoEF, Gol, Bhopal, MP PCB within six months
9. 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.
10. 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 component & also while submitting six monthly compliance report to MoEF, Gol, Regional Office, Bhopal.
11. PP should ensure implementation of all activities / mitigative measures /safeguards proposed in the Environmental Impact Assessment (EIA) report and Environmental



(Ms Dipali Rastogi)
Member Secretary I/c



(Shri H.S.Verma)
Member



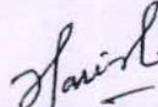
(Shri Waseem Akhtar)
Chairman

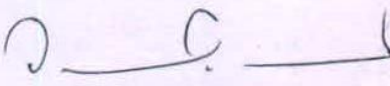
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- Management Plan (EMP) approved by SEAC and other reports from time to time must.
12. All parameters listed in Environmental Monitoring Plan approved by SEAC must be monitored at approved locations and frequencies .
 13. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically.
 14. 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
 15. The sewage or waste water should be properly collected, treated so as to conform to the standards prescribed by MoEF & CPCB. The treated effluents conforming to the prescribed standards shall be re-circulated and reused for horticulture/plantation.
 16. Conjunctive use of surface water has to be planned and implemented in the project to check water logging as well as to increase productivity.
 17. 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.
 18. 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.
 19. A separate Environmental Management Cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization
 20. Adequate financial provision should be made in the total budget of the project for implementation of the above suggested 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
 21. 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.
 22. 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.


(Ms Dipali Rastogi)
Member Secretary I/c

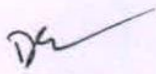

(Shri H.S.Verma)
Member

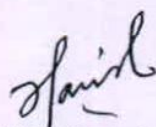

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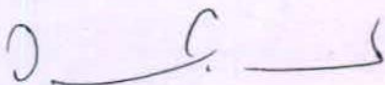
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23. Details of land holding of project affected persons whose land is being acquired shall be submitted to this MoEF GOI Regional Office. The R & R benefits for the land losing households will be as per the National Rehabilitation and Resettlement Policy, 2007 or as per the State Rehabilitation and Resettlement Policy, whichever is more beneficial to the project affected persons (PAFs). Adequate publicity of the compensation package shall be given in the affected villages. The R & R issues shall be completed before commissioning of the project. In case latest Act of 2014 is applicable, the same Act is to be followed.
24. In case of any, change in scope of work, technology, modernization and enhancement of capacity shall again require prior environmental clearance as per EIA notification, 2006.
25. The M.P 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.
26. 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.
27. 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/Zilla Parishad/ Municipal Bodies as applicable, local NGO, if any, in addition to the associated Government Departments 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.
28. 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.
29. 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 a copy of the same shall be forwarded to the Regional Office, MoEF, Gol, Bhopal.
30. 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.
31. 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


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Member Secretary I/c



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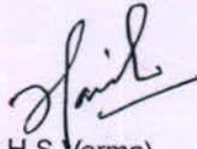

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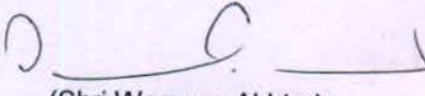
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- proponent shall organize six monthly meetings of the committee and submit the monitoring report to the ministry.
32. Occupational health and safety measures for the workers including identification of work related health hazards, training on malaria eradication, HIV, and health effects on exposure to water borne diseases . shall be carried out. Periodic monitoring for the workers shall be conducted and records maintained including health records of the workers. Awareness programme for workers on impact on their health and precautionary measures like use of personal equipments etc. shall be carried out periodically. Review of impact of various health measures shall be conducted followed by follow up action wherever required.
 33. Use of Solar Energy should be promoted in the project area where ever possible
 34. Commitment towards CSR have to be followed strictly.
 35. The Project Proponent shall provide proper arrangement for the disposal of hazardous waste (if any) and obtain authorization under Hazardous Waste (Management Handling & Transboundary Movement) Rules 2008 from MPPCB.
 36. The above conditions will 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 and the Public Liability Insurance Act, 1991 along with amendments and rules.
 37. 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.
 38. Any other clearance required from any other organisation/department should be obtained before commencement of works and commissioning of the project, as applicable.
 39. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 40. Any appeal against this prior environmental clearance shall lie with the Green Tribunal, 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.


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