



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

Environmental Planning Coordination Organization (EPCO)  
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No. **2939** /SEIAA/2015

Date: **3.7.15**


To,  
Shri M.S. Ajnare, Chief Engineer,  
Lower Narmada Projects,  
Narmada Bhawan Scheme,  
74, C-Sector, BG, Indore-452010

**Sub:- Case No. 2551/2015** Prior Environmental Clearance for proposed "**Narmada Malwa Gambhir Link Project (Major Lift Irrigation Project)**" at Tehsils : Barwah, Sanwer, Depalpur, Ujjain, Ghatiya, Badnagar of Districts Khargone, Indore & Ujjain (MP) CCA- 50,000 ha (from Right bank Pipeline - 30000 ha & Left Bank Pipeline-20000 ha); GCA - 83800 ha (from Right bank Pipeline - 42900 ha & Left Bank Pipeline-40900 ha); by Shri M.S. Ajnare, Chief Engineer, Lower Narmada Projects, Narmada Bhawan Scheme, 74, C-Sector, BG, Indore-452010

**Ref :** Your application no. 2063 dtd. 25.02.15 received in SEIAA office on 26.02.15.

With reference to above the proposal has been appraised as per prescribed procedure 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., the Form I, pre-feasibility report, ToR and subsequent 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 Narmada -Malwa- Gambhir-Link project is conceived to lift 15 cumecs water from the Right Bank Canal of Omkareshwar Project (River Narmada). The project has been designed to irrigate 50000 ha of cultivated land in 158 villages of 6 Tehsils of Indore and Ujjain Districts. Out of 15 cumecs, 1.5 cumecs shall be reserved for industrial use and 1.0 cumec for drinking purposes. The lifting point is located in Khargone District near junction structure, Omkareshwar Project (RBC) at RD 9.755 km. The Gross Command Area (GCA) is 83800 ha and Culturable Command Area (CCA) is 50,000 ha. The project

  
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Member Secretary

Case No. 2551/2015

Issued vide letter no. **2939-40** dated **3.7.15**


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



pertains to Item No. 1(c) of the EIA Notification. The project was taken up at MP-SEIAA level as per the directives of MoEF & CC, GoI vide letter dtd 06.02.2015.

- (ii). There is no interstate boundary (EE, PWD, Khargone letter dtd 15.01.15) or wildlife sanctuary, National park, etc. within 10 km of the project area (DFO letter dtd. 04.02.15). Hence general conditions are not attracted.
- (iii). Public hearing was held on 02.06.2015 & 03.06.2015 at three locations of Indore, Ujjain & Khargone Districts under the Chairmanship of concerned District Additional Collectors. During the public hearing, there was unanimity for the implementation of the project.
- (iv). Since it is a lift irrigation scheme, there is no submergence involved. For laying of pipeline 21.393 ha is forest land and 15 ha is non forest land would require diversion and acquisition. PP has applied on 18.06.2015 for prior approval of Central Govt. under section 2 of the Forest (Conservation) Act, 1980 for diversion of fresh forest area. Non forest land shall be required temporally during construction / laying of water conductor system.
- (v). PP has proposed the pipe lines comprising with mild steel for rising main, gravity main, right bank & left bank. The pipe lines will be equipped with air management system for preventing choking. The velocity of more than 0.60 m per second is proposed which will not allow sediments to settle. However, scour valves will be provided at suitable location to flush the sediment.
- (vi). The rising main system is proposed to be equipped with the Supervisory Control and Data Acquisition (SCADA) to identified leakage and anti theft alert. In distribution network up to 40 ha chak, for prevention of choking and bursting PP has proposed air management system along with sabotage management system.
- (vii). The total 431200 cum of muck is expected to be generated. The useful material received from excavation is proposed to be spread on the agricultural field after obtaining consent of the concerned farmer. The extra muck shall be used in construction of patrolling road and filling the low lying areas in the nearby villages with consent from Gram Panchyat/ Janpad Panchyat.
- (viii). PP has proposed compensatory afforestation in the two times the forest land. To improve green cover in the command area, plantation in 100 ha in several patches in non forest waste land is also proposed.
- (ix). Drip/ sprinkler method have been proposed for irrigation to avoid water logging and salinity.
- (x). For public health PP has proposed medical facilities including one ambulance with basic medical facilities in construction site; strengthening PHCs; health awareness / vaccination camps ; two ambulance with testing mobile vans in command area villages etc with budgetary provision of Rs. 140 lakhs.

Based on the information submitted as at Para i to x above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 213<sup>rd</sup> meeting held on 25.06.2015 and decided to accept the recommendations of 199<sup>th</sup> SEAC meeting dtd 21.06.15.

  
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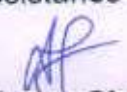
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Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dated September 14, 2006, for proposed "**Narmada Malwa Gambhir Link Project (Major Lift Irrigation Project)**" at Tehsils : Barwah, Sanwer, Depalpur, Ujjain, Ghatiya, Badnagar of Districts Khargone, Indore & Ujjain (MP) CCA - 50,000 ha (from Right bank Pipeline - 30000 ha & Left Bank Pipeline - 20000 ha); GCA - 83800 ha (from Right bank Pipeline - 42900 ha & Left Bank Pipeline - 40900 ha); by Shri M.S. Ajnare, Chief Engineer, Lower Narmada Projects, Narmada Bhawan Scheme, 74, C-Sector, BG, Indore-452010 subject to the compliance of the Standard Conditions enclosed at Annex-I and the following additional Specific Conditions as recommended by SEIAA & SEAC in its meetings.

**Specific Conditions as recommended by SEIAA**

1. It shall be binding on the part of Project Proponent to ensure the compliance of directions / orders / any other directions issued by Hon'ble High Court / NGT/ any other Court from time to time.
2. 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 Narmada Valley Development Authority, GoMP.
3. Besides the agricultural land, the rehabilitation of public buildings, infrastructures, monument etc. falling in the command area should also be ensured.
4. A grievances redressal mechanism is to be devised by NVDA GoMP and put in place so that aggrieved stakeholders may approach the Authority easily for resolution of any dispute/conflict.
5. An Environmental Cell should be setup to monitor the implementation of Environmental Management Plan and submission of six monthly compliance report. The committee should ensure that the allocated grant for various purposes included in EMP should be utilized for that purpose fully and should not be diverted for any other purpose.
6. Proposed Compensatory Afforestation programme should be taken-up in consultation with State Forest Department. The allocated grant for this purpose should be fully utilized and not to be diverted for any other purpose. For compensatory afforestation programme proper selection of species including trees with canopy, fruit bearing trees and grasses should be planted as proposed in EMP. Preference should be given to native species. Irrigation facilities should be ensure and proper care should be taken to raise the plantation. The six monthly compliance report should include plantation with number, species and survival rate etc.
7. Occurrence of stagnant pools during construction and operation of the project may provide breeding source for vector mosquitoes and other parasites. 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. insecticidal spray in all the project area and surrounding 3 km area keeping the flight range of mosquitoes in consideration. Also medical assistance should be

  
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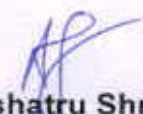


provided to the affected people at the cost of the developer and appropriate health benefits may be initiated with the help of State Health Department.

8. The project has been envisaged to supply 1.00 cumec of water for drinking purposes in the urban and rural areas. Special care should be taken for conventional treatment in conformity to the standards of drinking water supply.
9. Regular monitoring of water quality (Surface and Ground) including heavy metals shall be undertaken in the project area and in the adjoining project area to ascertain the change, if any, in the water quality due to leaching of contaminants, from the increased use of chemical fertilizers and pesticides.
10. In the process of excavation for laying large quantities of muck will get accumulated in the entire length of rising, gravity and distribution mains. Appropriate measures for muck management / disposal should be ensured. The excavated materials should be properly used in the construction of patrolling road and could be distributed to the cultivators on their consent.
11. To reduce the noise pollution at intake point, special canopy (covering) be devised over the pumps & DG set.
12. A special control room should be set up at an appropriate location for disaster management, water leakage detection, periodical ecological monitoring and for proper management of the entire distribution and pumping systems. Chassis mounted dewatering pumps should be kept ready to deal with any localized drainage congestion.

#### **Specific Conditions as recommended by SEAC**

13. It being a major lift irrigation project which involves the lifting of water through water pumps, a contingency plan (in case of failure of pumps) should be in place. It was informed by PP during presentation that only three to four pumps out of seven will be operated at a time. Thus it was decided that rest three will be kept operational during emergency as contingency plan.
14. PP should explore the possibility of getting the farmers crop insured against crop failure in case of any breakdown in the irrigation system.
15. PP should explore the possibility of energy conservation as about 85 MW of power will be used for water pumping & other activities.
16. The project involves irrigation through techniques such as drip and sprinkler system. PP should also explore the possibility of root irrigation system. All the relevant farmers should also be trained for root/drip/sprinkler type of irrigation systems.
17. SCADA system is proposed for detection leakages in pipelines. PP should explore the possibility of galvanizing the water pipeline other than proposed epoxy coatings.
18. Dug out top soil should be used either for plantation or should be spread on farmers field with their consent.

  
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Member Secretary

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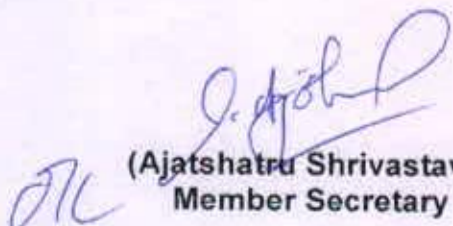
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19. Adequate corridors should be provided for free movement of animals in identified areas in consultation with forest department.
20. A minimum of Rs. 40 Cr. (ie about 2% of the project cost) be earmarked for implementation of EMP, of this 30% ie Rs. 12.00 Cr. to be utilized for plantation. The balance can be utilized for other CSR related activities such as Health, Field Training & Extension for farmers of the affected areas, incentives for soil & Water conservation, Development & Maintenance of animal corridors, Providing water source to wild animals in the area, Environmental monitoring etc.
21. In public hearing by and large the people have supported the project. The commitments given during public hearing should be ensured by the PP.
22. As the project involves forest area also, necessary clearance under FCA will be obtained by PP from MoEF & CC, Govt. of India.

**Encl: Standard Conditions (Annex-I)**

  
(Ajatshatru Shrivastava)  
Member Secretary

Endt No. <sup>2940</sup> /SEIAA/15 Dated: 3.7.15  
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. Chief Engineer, Narmada Valley Development Authority 59, Arera Hills, Narmada Bhawan, Bhopal (M.P)- 462011
4. Member Secretary, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016
5. Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5. Arera Colony Bhopal-4620 16
6. District Collector, Indore, (M.P.)
7. District Collector, Ujjain, (M.P.)
8. District Collector, Khargone, (M.P.)
9. Division, Monitoring Cell, MoEF & Climate Change, GOI, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj New Delhi- 110003
10. Regional Officer, Regional Office of the Ministry of Environment & Forest, GoI, Western Region, Kendriya Paryawarn Bhawan, Link Road No. 3 Ravi Shankar Nagar, Regional office of the MOEF, Bhopal-462016
11. Guard file.

  
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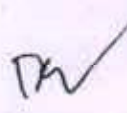
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### Annexure-2

#### 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

  
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(Shri H.S. Verma)  
Member

  
(Shri Waseem Akhtar)  
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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, 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
  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.

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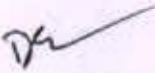
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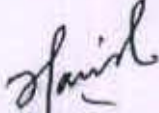


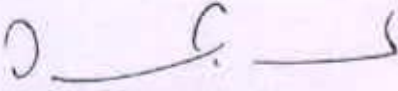
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23. Details of land holding of project affected persons whose land is being acquired shall be submitted to this MoEF GOI Regional Office. The R & R benefits for the land losing households will be as per the National Rehabilitation and Resettlement 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](http://www.mpseiaa.nic.in) and a copy of the same shall be forwarded to the Regional Office, MoEF, GoI, 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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- 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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