



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

Environmental Planning Coordination Organization (EPCO)  
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No: 2925 /SEIAA/2015  
Date: 3.1.2015

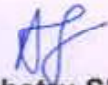
To,  
Shri M.G. Choubey, Engineer-in Chief  
Department of Water Resources  
Tulsi Nagar, Bhopal – 462003

**Sub: Case No. 698/2012** Prior Environmental Clearance for Panchamnagar Medium Irrigation Project (Pagara dam + Panchamnagar Barrage) Main dam near Village Pagara, Tehsil – Banda Taluka, Distt. Sagar (MP) proposed CCA 9900 ha; GCA14260 ha; Catchment Area-1096.36 sq.km. (Intercepted 507.12 sq.km & Net 589.24 sqkm) by Shri M.G. Choubey, E-In-C, Deptt. of Water Resources, Tulsi Nagar Bhopal through Shri S.L.Jain Chief Engineer, Dhasan Ken Basin, Deptt. of Water Resources, Sagar Distt. Sagar (MP)

**Ref :** Your application no.320 & 03 .received in SEIAA office on 17.01.2012 & 16.03.12.

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 amendment, 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 1096.36 sq.km. (Intercepted catchment area 507.12 sq.km. & net catchment area 589.24 sq.km). The Gross Command Area (GCA) is 14260 ha and Culturable Command Area (CCA) is 9900 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.
- (ii). Panchamnagar Medium irrigation project includes construction of (i) Pagara feeder dam having maximum height 36.01m across the Bewas river in Ken river Sub-basin at village Pagara Distt. Sagar (ii) Panchamnagar barrage in downstream Distt. Damoh. The project envisages Gross storage capacity of 107.29 MCM (Pagara 99.773 MCM + Panchamnagar 7.517MCM) and Live storage capacity is 82.927 MCM (Pagara 78.88MCM + Panchamnagar 4.047 MCM). Out of this 60.92 MCM of water will be used for irrigation while 13.25 MCM and 8.757 MCM shall be reserved for drinking and industrial purpose respectively. It is proposed to irrigate an area of 9900 ha for Rabi and 2700 ha for Kharif season.

  
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Member Secretary

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- (iii). The total submergence area is 1685.16 ha, of which Pagara dam includes 1592.16 ha (Private land – 1107.00 ha, Govt. revenue land – 293.44 ha, and Forest land – 191.72 ha) and Panchamnagar barrage includes 93.00 ha submergence area which is 100% Govt. revenue land.
- (iv). For submergence of 191.72 ha forest land PP has obtained Stage -2 Forest Clearance from Gol, Ministry of Environment, Forest and Climate change (F.No.8-70/2012-FC dtd 04.07.14.)
- (v). Compensatory afforestation is proposed in double area i.e. 191.72 x 2 = 383.44 ha which will be done by Forest Deptt. Further, green belt development in an area of 15 ha is proposed with budgetary provision of Rs 9.00 lakh.
- (vi). For acquisition of private land PP has proposed compensation to the respective land owners / land title holders as per the provision of prevailing Land Acquisition Act with budgetary provision of Rs. 2759.80 lakh for Rehabilitation & Resettlement (RR) plan and Rs 99.0 lakh for implementation of Local Area Development (LAD) Plan which includes upgradation of schools & public health centers etc.
- (vii). For prevention of soil erosion (siltation & sedimentation of reservoir) proposed Catchment Area Treatment (CAT) plan includes Contour bunding, Nalla bunding, Pasture development, Social forestry etc.
- (viii). During the public hearing some issues were raised by the participants, which have been included in the proceedings and the same is responded by proponent (WRD). One member from the tribal community had raised the issue of special compensation. These have been also responded by proponent (WRD) in the proceedings /EIA.
- (ix). A STP of 75 KLD capacity is proposed for treatment of sewage.
- (x). Fisheries Management Plan involving sustenance & enhancement of fisheries potential through supplementary stocking of reservoir is proposed while no budget allocation has been made in EMP for Fisheries management.

Based on the information submitted as at Para ii to x above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 170<sup>th</sup> meeting held on 15.12.2014 and decided to accept the recommendations of 153<sup>rd</sup> SEAC meeting dtd 21.10.14.

Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dated September 14, 2006, for proposed Panchamnagar Medium Irrigation Project (Pagara dam + Panchamnagar Barrage) Main dam near Village Pagara, Tehsil-Banda, Taluka, Distt. – Sagar (M.P.) proposed CCA 9900 ha; GCA 14260 ha; Catchment Area-1096.36 sqm. (Intercepted catchment area 507.12 & net catchment area 589.24) by Shri M.G. Choubey, E-In-C, Department of Water Resources, Tulsi Nagar Bhopal through Shri S.L.Jain Chief Engineer, Dhasan Ken Basin, Department of Water Resources, Sagar Distt. Sagar (M.P.) 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 of the orders of Hon'ble High Court (dtd 09.04.2014 and 08.10.2014) and any other directions / order issued by Hon'ble NGT/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

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completely by the Water Resources department GoMP. All project affected families (PAFs) should get adequate & timely compensation as per Land Acquisition Act 2013.

- (3) Proper implementation of R & R Plan considering all such facilities as drinking water, sanitation, school, market, health centre, Aganwadies etc. should be ensured. For smoother transition of oustees on the identified displaced site, the development works should start immediately so that by the time dam is constructed and water is impounded in the reservoir the oustees could be properly rehabilitated.
- (4) Besides the agricultural land, the rehabilitation of public buildings, infrastructures, monument etc. falling in the submergence area should also be ensured.
- (5) For Tribal compensation should be in accordance to the provisions of the Land Acquisition Act 2013 - Second Schedule S. No. 5.
- (6) A monitoring Committee for R & R shall be constituted which must include representatives of project affected persons including SC/ST community and women.
- (7) A grievances redressal 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.
- (8) The implementation of Local Area Development Plan (LADP) to be closely monitored.
- (9) A special committee 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.
- (10) River Bewas being a seasonal stream/ river, a minimum environmental flow of 30 % in monsoon season should be released for downstream users.
- (11) Proposed Compensatory Afforestation programme in 383.44 ha 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.
- (12) Proposed Bio-diversity Conservation & Management Plan and Catchment Area Treatment (CAT) Plan as proposed in EMP report should be implemented in consultation with Madhya Pradesh State Forest Department. Major CAT works shall be completed before impounding of reservoir.
- (13) To enhance the natural environmental quality & aesthetics of project site, greenbelt, as proposed in the EMP Report shall be undertaken in 15 ha of area.
- (14) Fishery conservation & management plan shall be implemented in consultation with the Fisheries Department, Govt. of Madhya Pradesh. The stocking density of the reservoir shall be around 300 fingerlings per ha.
- (15) 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

  
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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 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.

- (16) If the water of reservoir is used for drinking water supply, it should be done after conventional treatment in conformity to the standards of drinking water supply. Special care should be taken for total dissolve solids (TDS).
- (17) 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.

**Specific Conditions as recommended by SEAC**

- (18) The soil removed during the excavation will be stacked separately and will be used for the green belt development only.
- (19) Regular check up camps shall be organized by the department to check water borne diseases in the villages in vicinity of the Dam.
- (20) Efficient irrigation systems should be promoted in the command area as Social Responsibility by the trained staff of the department.
- (21) All commitments pertaining R&R and public hearing shall be mandatory on part of PP
- (22) Periodic soil/water testing shall be carried out in the command area and report to be submitted to Ministry of Agriculture with essential remarks.

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

o/c (Ajatshatru Shrivastava)  
Member Secretary

Endt No. 2926 /SEIAA/15 Dated: 3.1.2015  
Copy to:-

1. Principal Secretary, Department of Environment, GoMP, Mantralya, Bhopal.
2. Principal Secretary, Department of Water Resource, GoMP, Mantralya, Bhopal
3. Commissioner Command Area Development Water Resource Deptt., Bhopal (M.P)
4. Member Secretary, MP Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal
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, Sagar, (M.P.)
7. Executive Engineer Water Resources Division Sagar, MP.
8. Division, Monitoring Cell, MoEF & Climate Change, GOI, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj New Delhi- 110003
9. 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
10. Guard file.

o/c (Ajatshatru Shrivastava)  
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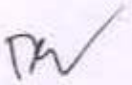
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Paryavaran Parisar, E-5, Arera Colony, Bhopal-4620 16


### 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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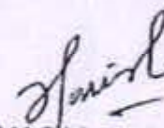



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- Management Plan (EMP) approved by SEAC and other reports from time to time must.
12. All parameters listed in Environmental Monitoring Plan approved by SEAC must be monitored at approved locations and frequencies .
  13. The proponent shall upload 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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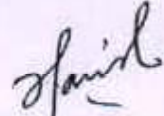



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23. Details of land holding of project affected persons whose land is being acquired shall be submitted to this MoEF GOI Regional Office. The R & R benefits for the land losing households will be as per the National Rehabilitation and Resettlement 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, 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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
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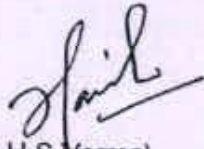



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- proponent shall organize six monthly meetings of the committee and submit the monitoring report to the ministry.
32. Occupational health and safety measures for the workers including identification of work related health hazards, training on malaria 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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