



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
Bhopal-4620 16
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No: 2354 /SEIAA/2014

Date: 27.11.14

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

Sub: Case No. 688/2012 Prior Environmental Clearance for proposed Pawai Medium Irrigation Project, Catchment Area- 995.0 Sq.km., Gross storage Capacity- 124.0 MCM, Live Storage Capacity – 108.45 MCM, Gross Command Area – 13785 ha. Cultivable Command Area – 9952 ha at village Pandheria, Teh-Shahnagar, Distt-Panna - (M.P.), by Department of Water Resources through M.G. Choubey Engineer-in-Chief, Water Resources Tulsi Nagar, Bhopal – 462003 email: eincwrbpl@mp.nic.in Tel:0755-2573522, 23, 25 & 26 Env. Consultant: M/s Voyants Solutions Pvt. Ltd. Gurgaon (Har)

Ref: Your application no.98/WS/Panna dated 15.01.12 & 20.03.12.received in SEIAA office on 18.01.2012& 20.03.12.

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 14th 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 995.0 Sq.km, gross storage capacity 124.0 MCM, Live storage capacity is 108.45 MCM and the Cultivable Command Area (CCA) is 9952 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.
- (ii) Pawai Medium Irrigation Project is proposed on the river Ken, a tributary of river Yamuna. The Pawai Medium Irrigation project has a 632 m long earthen Dam.The water allocated for the project is 100.99 MCM (45.99 MCM for irrigation & 33.67

(Ajatshatru Shrivastava)
Member Secretary

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MCM for future use industry & drinking). It is proposed to irrigate an area of 9952 ha only in Rabi season.


- (iii) The land required for various project components is 1790.85 ha 238.36 ha (forest land, 621.00 ha of private land and 931.49 ha of revenue land.)
- (iv) PP has obtained Forest Clearance from MoEF, Govt. of India (F. no. 8-14/2012-FC dated 10.09.2014) under section-2 of Forest Conservation Act 1980 for diversion of 238.36ha of forest land.
- (v) The entire submergence area covers eighteen (18) villages in which land of 540 families is getting affected. Out of 621 ha private land 57.28 ha of private land owned by SC category and 226.07 ha by ST category is coming under submergence. Budgetary provision of Rs. 8246.76 lakh is proposed for land acquisition and Rs. 90.60 lakh is marked for local area development plan.(LADP)
- (vi) For prevention of soil erosion, siltation & sedimentation of reservoir PP has proposed catchment area treatment plan including slope stabilization and plantation of shrubs and herbs and trees.
- (vii) 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).
- (viii) In Ken river Mahasheer is found which is a sport fish and migratory fish. PP has proposed fisheries development and Mahasheer Conservation Plan with budgetary provision of Rs. 110.50 lakh.
- (ix) Water quality analysis revealed high Total Dissolved Solids (1562 mg/l.)

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 169th meeting held on 28.10.2014 and decided to accept the recommendations of 151st SEAC meeting dtd. 27.09.2014.

Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dated September 14, 2006, for proposed proposed Pawai Medium Irrigation Project, Catchment Area- 995.0 Sq.km., Gross storage Capacity- 124.0 MCM, Live Storage Capacity – 108.45 MCM, Gross Command Area – 13785 ha. Cultivable Command Area – 9952 ha at village Pandheria, Teh- Shahnagar, Distt-Panna - (M.P.), by Department of Water Resources through M.G. Choubey Engineer-in-Chief, Water Resources Tulsi Nagar, Bhopal – 462003 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. PP should obtain cognizance of the concerned Departments for maintenance responsibilities for various activities proposed in the Rehabilitation and Resettlement (RR) plan and Local Area Development (LAD) plan.
2. Besides the agricultural land, the rehabilitation of public buildings /Infrastructures falling in the submergence area should also be included in the rehabilitation plan.


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3. The inputs given by the participants during Public hearing should be properly redressed.
4. PP should strictly adopt appropriate measures for conservation of Mahasheer in consultation with the fisheries Deptt. for the sustenance responsibilities.
5. The source of TDS should be identified and properly redressed. Appropriate water treatment facilities should be provided before supplying the water for drinking purposes.
6. Regular monitoring of ground water quality and surface water quality should be done to assess the pollution by residues from agrochemicals (pesticides and fertilizers) and growth of abnoxious aquatic weeds.

Specific Conditions as recommended by SEAC

7. The TDS value as reported in the water test report appears to be high; the same has to be rechecked and necessary corrective measures have to be taken while executing the project.
8. The rate of siltation should be validated and accordingly planning has to be rectified.
9. Excavated earth should be stored at downstream, away from the river banks.
10. Septic tank and soak pits should be provided for the temporary toilets proposed for workers.
11. Possibility of laying geo-membrane in the canals may be explored.

Encl: Standard Conditions (Annex-I)

dc (Ajatshatru Shrivastava)
Member Secretary

Endt No. ²³⁵⁵ /SEIAA/14 Dated: 27-11-14

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, Panna, (M.P.)
7. Executive Engineer Water Resources Division Pawai, Panna.
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.

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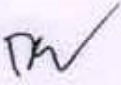
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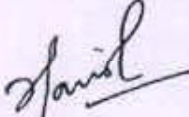
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Annexure-2

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


(Ms Dipali Rastogi)
Member Secretary I/c


(Shri H.S. Verma)
Member



(Shri Waseem Akhtar)
Chairman

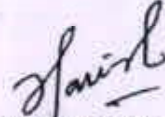
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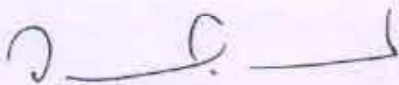
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- Management Plan (EMP) approved by SEAC and other reports from time to time must.
12. All parameters listed in Environmental Monitoring Plan approved by SEAC must be monitored at approved locations and frequencies.
 13. The proponent shall upload 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, 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, GoI 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, GoI, 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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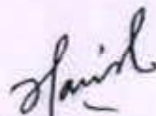
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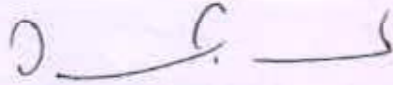
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23. Details of land holding of project affected persons whose land is being acquired shall be submitted to this MoEF GOI Regional Office. The R & R benefits for the land losing households will be as per the National Rehabilitation and Resettlement 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 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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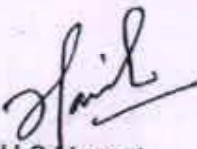
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- proponent shall organize six monthly meetings of the committee and submit the monitoring report to the ministry.
32. Occupational health and safety measures for the workers including identification of work related health hazards, training on malaria 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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