

## State Level Environment Impact Assessment Authority, Uttar Pradesh

To,

Mr. K.K. Agrawal,  
Executive Engineer,  
Irrigation Construction Division-II,  
Lalitpur, U.P.-284403

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Ref. No. ....1282...../Praya/SEAC/2641/2014/OSD(T)

Date: 27 November, 2015

Sub: Environmental Clearance of Bhaunrat Dam irrigation project having CCA 9850ha at Village-Bhaira, Tehsil-Mehrouni, District-Lalitpur, U.P.

Dear Sir,

Please refer to your application/letter dated 04.11.2014, 29.11.2014, 21.05.2015 and 18.08.2015 addressed to the Director, Environment & Secretary, SEAC, Dr. Bhim Rao Ambedkar Paryavaran Parisar, Vineet Khand-1, Gomti Nagar, Lucknow on the subject as above.

The matter was discussed the State Level Expert Appraisal Committee in its meeting held on dated 15/11/2014, 10.07.2015 and 11/09/2015. A presentation was made by Mr. K.K. Agarwal, Executive Engineer, Irrigation Department, authorized representative of the project proponent along with their consultant M/s CEMC Pvt. Ltd. The proponent, through the documents submitted and the presentation made, informed the committee that:

**Part-A:**

1. The environmental clearance is sought for Bhaunrat Dam project, Tehsil-Mehrouni, District-Lalitpur. Gross Command area for irrigation is 13450 ha & culturable command area is 9850 ha (Existing command 7995 ha and new command 1855 ha).
2. Project details of the project is as follows:

Project name	Bhaunrat Dam Project, Tehsil Mehrouni, District Lalitpur, Uttar Pradesh
Location of Dam	Village- Bhaira, Tehsil- Mehrauni, Dist- Lalitpur, Uttar Pradesh
Latitude	24 35'10" N
Longitude	78 40'00" E
Source Supply	Jamni River (Betwa Basin)
Net Catchment Area (U.P.) for Bhaunrat Dam	335.40 Sq. Km
Irrigation- Gross Command Area (Ha.)-	13450 Ha
Culturable Command Area (Ha)-	9850 Ha (Existing 7955 Ha & new 1855 Ha.)
Water Required for Drinking	1.00 M.C.M.
Water Required for Irrigation	34.90 M.C.M. (24.10 M.C.M. in Rabi & 10.80 M.C.M. In Kharif)
Type of Dam	Earthen Dam
Ht. of Dam – Above River Bed (Max.)	19.93 m
Gross Storage	45.08 M.C.M.
Live storage	40.55 M.C.M.
Dead Storage	4.53 M.C.M.
Length of Dam	4.20 K.m.
Evaporation/Absorption Losses	4.65 M.C.M.
Useful Storage	35.90 M.C.M.
Levels Elevations –	
River Bed Level (Average)	344.00 M.
Dead Storage Level	354.55 M.
FRL/FSL	360.90 M.
Highest Flood Level	361.40 M.
Top Level of Dam	363.10 M.
Spillway – Type	Ogee Shaped
Clear water way/Length	130m/157m
No./Type/Size of Gate	13 No. vertical lift gate (10mx6.5m)
Energy Dissipation Device Type	Stilling Basin with chute blocks

Abadi Submerged – No. of Village	06 (Satlinga, Bhaunrat, Chhaprat, Kisarda, Mudia and Vedpur)
No. of Building	78 Pucca/347 Kachcha
No. of Families Affected	311
Submerged Area at Full Reservoir Level	<b>1260 Ha.</b>
Land to Be acquired –	1094.00 Ha.
Submergence	55.48 Ha.
Head works	117.30 Ha.
Canal	
Total -	<b>1266.78 Ha. Out of which 201 Ha forest land</b>
Total Cost of Project	44003.77 Lac
Benefits – Additional yield	344100 Qtl. (Food-Grain)
Benefit – Cost Ratio	1.61
Cost of Irrigation/Ha.	2.44 Lac/Ha.
Topo sheet number	54L/15
Man power	200
Nearest railway station	Lalitpur Railway Station, 40.00 km
Nearest Road/national highway	Mahrauni
Nearest air port	Gwalior Airport, approx. 240 km.
Seismic zone	Zone-V (As per 1893:2002)

3. Bhaunrat Dam Project is proposed for providing irrigation facility for an area of 9850 Ha.
4. The TOR was approved on 15-11-2014 vide letter no. Parya/SEAC/2641/2014 /OSD(T).
5. The baseline environmental studies have been conducted during November 2014 to February 2015 as per the approved TOR and Draft EIA was submitted to U.P. Pollution Control Board for conducting Public Hearing.
6. The Public Hearing was conducted on 25-04-2015 in village-Bhaunrat, Tehsil-Mehrauni, District-Lalitpur, U.P.
7. The Final EIA after incorporating public hearing minutes and action plan has been submitted for environmental clearance to SEIAA.
8. Jamni Dam Irrigation project already exists on Jamni River which is approximately 20 km upstream of the proposed dam. However, the catchment area of 335 Sq. Km is untapped which will act as catchment by the proposed project.
9. The District Agriculture Officer has assessed that the project on completion will cater to an area of 9000 ha during Kharif and 7700 ha in Rabi.
10. Land requirements for the project are 1266.78 out of which 201 Ha is forest land. The villages Satlinga, Bhaunrat, chaprat, Kisarda, Mudia, Vedpur are impacted due to submergence.
11. 311 families, 78 Pucca and 347 Kachcha houses will be affected and to be rehabilitated. Appropriate compensation packages according to the R & R policy, 2007 will be provided to those families who are identified by the committee formed by govt. for R & R work of this project.
12. The total project cost is Rs. 44003.77 Lakh & a total budget of Rs. 1565.37 Lacs + 6.03 ha land for resettlement purposes would be required for the Resettlement and Rehabilitation Plan.
13. Total project cost is Rs. 440.Crores and CSR expenditure will be in the form of providing employment for 100 persons. The drinking water and health Check-up to be provided. CSR will be 3.557% for social benefits and other services.
14. Forest land is in the active stage of acquisition. The report for this has been prepared and being investigated by the Forest Department.
15. The project proposals are covered under category 1 "c" of EIA notification, 2006, as amended.

Based on the recommendations of the State Level Expert Appraisal Committee Meeting held on 11/09/2015 the State Level Environment Impact Assessment Authority in its Meeting held on 05/11/2015 has decided to grant the Environmental Clearance to the project subject the following general and specific conditions:-

**a. General Conditions:**

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, GoI, Lucknow & UPPCB 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 of MoEF, GoI, Lucknow & UPPCB. 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 of MoEF, GoI, Lucknow & UPPCB.
9. The responsibility of implementation of environmental safeguards and RR plan rests fully with the project proponent.
10. Necessary livelihood plan for oustees is to be prepared, if found necessary, in consultation with state government departments concerned.
11. PP should ensure implementation of all activities/mitigative measures /safeguards proposed in the Environmental Impact Assessment (EIA) report and Environmental Management Plan (EMP) and other reports from time to time.
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, S<sub>0</sub>2, 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 generate 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 I 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 Lucknow 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, Govt, Regional Office located at Lucknow, CPCB & UP PCB. 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. 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.

23. The U.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.

24. A copy of the Prior Environmental Clearance issued by UP 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.

25. 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.seiaaup.in](http://www.seiaaup.in) and a copy of the same shall be forwarded to the Regional Office, MoEF, Govt, Lucknow.

26. 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.

27. 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.

28. Use of Solar Energy should be promoted in the project area wherever possible.

29. Commitments towards CSR have to be followed strictly.

30. 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 Govt.

31. 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.

32. 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.

- 33. Any other clearance required from any other organization/department should be obtained before commencement of works and commissioning of the project, as applicable.
- 34. 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.
- 35. 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.

**b. Specific Conditions:**

- 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 project proponent. 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. The implementation of Local Area Development Plan (LADP) to be closely monitored.
- 4. A minimum environmental flow shall be maintained/released for downstream users.
- 5. Compensatory afforestation programme 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. Green belt shall be maintained on minimum 33% of the project area.
- 6. Bio-diversity Conservation & Management Plan 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.
- 7. The Catchment Area Treatment (CAT) Plan shall be strictly implemented in consultation with 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.
- 8. To enhance the natural environmental quality & aesthetics of project site, greenbelt, as proposed in the EMP Report shall be undertaken. Allocated grant for this purpose shall be fully utilized and not to be diverted for any other purpose.
- 9. Fishery conservation & management plan shall be implemented in consultation with the Fisheries Department, Government of UP.
- 10. 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.
- 11. If the water of reservoir is used for drinking water supply, it should be done after conventional treatment.
- 12. 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.

13. Using the analytical data sedimentation rate shall be studied so as to validate the design, capacity and life of the dam.
14. Catchment area treatment has to be optimized (and if required may be revised) using sedimentation study.

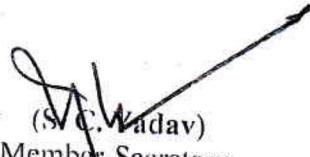
This Environmental Clearance is subject to ownership of the site by the project proponents in confirmation with approved Master Plan for Lalitpur. In case of violation, it would not be effective and would automatically be stand cancelled.

You are also directed to ensure that the proposed site is not a part of any no-development zone as required/prescribed/identified under law. In case of violation, this permission shall automatically deem to be cancelled. Also, in the event of any dispute on ownership or land use of the proposed site, this clearance shall automatically deemed to be cancelled.

The project proponent will have to submit approved plans and proposals incorporating the conditions specified in the Environmental Clearance within 03 months of issue of the clearance. The SEIAA/MoEF reserves the right to revoke the environmental clearance, if conditions stipulated are not implemented to the satisfaction of SEIAA/MoEF. SEIAA may impose additional environmental conditions or modify the existing ones, if necessary. Necessary statutory clearances should be obtained and submitted before start of any construction activity.

These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006 including the amendments and rules made thereafter.

This is to request you to take further necessary action in the matter as per provision of Gazette Notification No. S.O. 1533(E) dated 14.9.2006, as amended and send half yearly compliance reports in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the SEIAA, U.P. on 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year.



(S.C. Vadav)  
Member-Secretary,  
SEIAA, U.P.

Ref. No...../Praya/SEAC/2641/2014/OSD(T) Dated  
Copy for Information and necessary action to:

1. The Principal Secretary, Department of Environment, Govt. of Uttar Pradesh, Lucknow.
2. Advisor, IA Division, Ministry of Environment & Forests, Govt. of India, Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi-110003.
3. Chief Conservator, Regional Office, Ministry of Environment & Forests, (Central Region), Kendriya Bhawan, 5<sup>th</sup> Floor, Sector-H, Aliganj, Lucknow.
4. District Magistrate, Lalitpur, U.P.
5. The Member-Secretary, U.P. Pollution Control Board, TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow.
6. Copy to Web Master/ guard file.



(Dr. A.A. Khan)  
OST(T)/Nodal Officer,  
SEIAA, U.P.