



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

Environmental Planning Coordination Organization (EPCO)  
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No: 1302 /SEIAA/2018

Date: 23.8.18

To,  
Executive Engineer,  
Narmada Development Division No. 04,  
Sihora, District - .Katni  
MP - 483225

**Sub:- Case No.5561/2017:** Prior Environment Clearance for Dhimerkheda Micro Lift Irrigation Scheme at Dist. Katni, MP, Supply Source: From Right Bank Canal of BDP in Katni District Cultivable Command Area – 15,012 ha, Gross Command Area – 37879 ha by Executive Engineer, Narmada Development Division No. 4, Sihora, Dist.Katni-483225, MP E-mail: mahendradhimole@gmail.com mob no. – 9926470916 Env. Consultant :- R.S. Envirolink Technologies Pvt. Ltd.

**Ref:** Your application dtd. 15.05.17 received in SEIAA office on 17.05.2017

With reference to above, the proposal has been appraised as per prescribed procedure & provisions under the EIA notification issued by the Ministry of Environment & Forests vide S.O.1533(E), dtd. 14.09.06 & its amendments, on the basis of the mandatory documents enclosed with the application viz., Form I, pre-feasibility report, ToR, EIA Report, PPT and additional clarifications furnished in response observations by the State Expert Appraisal Committee (SEAC) and State Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

- (i) The proposed project is a micro lift irrigation scheme consisting of lifting water from an existing Bargi RBC Canal through a pressurised piped system including pumps, Rising Main and Pipe Distribution networks for 15000 hectare of area to irrigate during Rabi season. A piped system will be laid upto 2.5 ha chuck.
- (ii) The entire scheme is divided into 4 sub-schemes viz., Kothi, Khamtara, Jhirri and Sailarpur.
- (iii) This proposed project is located on Right Bank Canal (RBC) of Bargi Diversion Project (BDP) in Dhimkheda Tehsil of Katni district near Umariya Pan.
- (iv) This is lift Irrigation project with Net CCA of 15,012 ha. The water shall be lifted from the existing source and transported to the command area through Pipes using pressurized micro irrigation system therefore, no submergence is proposed in the project. Hence by virtue of the nature of the project and as per MoEF notification SO 3067 (E) dated 01/12/2009, it falls under category- B and pertains to Item No. 1(c) of the EIA Notification & its amendments.
- (v) There is no interstate boundary (EE, PWD, Katni letter dtd 17.04.17) or wildlife sanctuary, National park, etc. within 10 km of the project area (DFO letter dtd. 03.05.17). Hence general conditions are not attracted.
- (vi) Public Hearing was conducted on 04<sup>th</sup> April 2018 at Janpad Panchayat Complex, Dhimarkheda, District Katni under the Chairmanship of Additional District

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Magistrate, Katni District. Some quarries were raised during public hearings which were readdressed by PP.

- (vii) The main objective is to provide irrigation facilities to the water-scarce areas to cater irrigation water to about 15,012 ha of CCA in 97 villages of Dhimarkheda tehsil of Katni, will be benefitted –sub-scheme wise, Kothi (25), Khamtara (30), Jhirri (19) and Sailarpur(23).
- (viii) The project is designed for a discharge of 5.34 cumec with total annual utilization of 56.18 M. This water will be available at 20 ha chak outlet with a static head of 20 m to provide micro irrigation in command area through drip/sprinkler system.
- (ix) The area in a chak is subdivided into 8 sub chaks (2.5 ha each). Water will be delivered to 2 sub chak at a time for 6 hours, after 6 hours the next sub chaks will start getting the water and so on. Thus in 24 hours all 8 sub chak will get equitable water.
- (x) Project would require 4.72 ha of Govt. land permanently for pump houses, sub-stations, and valve chambers and staff quarters. Total transmission lines length required for the four sub-schemes together is 24.6 km. Since 33 KV lines are considered for this project, 352 poles will be erected along the road and canal embankment. The pipe shall be laid 1.0 m below average ground level and land will be restored immediately on completion of the work, therefore no land for laying of pipes shall be acquired permanently. Total temporary land requirement is worked out as 112.90 ha. Out of that 0.775 ha of the area comes under forest land for which PP has obtained Forest Clearance from DFO, Katni vide letter no. 5240 & 5255 dtd. 28.07.2018 (0.288ha) & 30.08.18 (0.487 ha) respectively. AS per the forest clearance letter the pipelines passing through Forest land is optimized to 0.775 ha total area. For which Compensatory afforestation will be taken up as per the guidelines of Forest Conservation Act, 1980. Block plantation is to be taken up two times (1.55 ha) of the above ground component of forest land diversion in the denuded or degraded forest areas. Total of Rs. 16.10 lakh is budgeted for compensatory plantation.
- (xi) To prevent the unauthorized usage of the water, each sub chak outlet will be remotely connected with the SCADA at each pumping station. The system will automatically detect the defaulter sub chak group who has not paid for the water and terminate the sub chak connection till further repayment/recharge
- (xii) In micro lift irrigation schemes, air pollution occurs mainly during project construction phase. The major sources of air pollution during construction phase are: Pollution due to fuel combustion in various equipments, Emission from various construction plants, Fugitive emissions from material handling and transportation. PP has proposed following mitigation measures for air emissions:
  - a. For all major construction activities, curtaining of the site will be done to protect the surrounding areas from dust emissions.
  - b. In addition, regular sprinkling of the water will be done on construction sites for dust suppression.
  - c. Mobile DG sets shall be used for lighting only during construction phase and they should meet emission and noise standards as per guidelines/standards issued by CPCB.
  - d. The entire contractor's vehicle should have valid PUC certificate and same condition may be enforced on transporters bringing in material for construction.
  - e. Road damage caused by sub-project activities will be promptly attended to with proper road repair and maintenance work.

- f. Excessive soil on paved areas will be sprayed (wet) and/or swept and unpaved areas will be sprayed and/or mulched.
  - g. All the construction workers and other staff, who get directly exposed to dust, should necessarily be provided with dust masks.
- (xiii) To minimize the impact of high noise PP has proposed following mitigation measures:
- a. All the construction equipment will be required to use available noise suppression devices and properly maintained mufflers.
  - b. Workers in high noise area will be provided with ear muffs and their use will be monitored. Workers exposure (time duration) to high noise will also be controlled.
- (xiv) For Impacts on water bodies PP has proposed following mitigation measures :
- a. Pipeline route have been planned in a manner to avoid crossing of major water bodies.
  - b. Excess suspended solids in the wastewater will be removed before these are disposed into water body or over land.
  - c. Only small quantity of water would be used in the construction activities as work mainly pertains to the laying of pipeline.
  - d. Impacts on water logging and soil salinity are generally envisaged in flow irrigation schemes, however, no such impacts are envisaged due to micro irrigation.
- (xv) Muck will be generated due to laying of underground pipeline which will be managed as follows:
- a. The excavated material will be utilized for refilling of the trenches and the approach road proposed to be constructed for carrying the pipes at site and preparation of platform for crane.
  - b. Surplus quantity, estimated as 2.78 lakh cum, will be spread linearly for 1263 km and per m dug material generation will be of the order of 0.22 cum only.
  - c. Top fertile soil will be spread on adjoining farming fields with consent of farmers or alternatively will be used for green belt development. The other soil will be spread on low lying farmers field with their consent. As the topography is undulating, such low lying areas are available along the route.
  - d. The balance muck, if any, shall be laid in the community undulating area of the connected villages with the consent of concerning Gram-panchayat or Janpad Panchayat and spread over Government waste land which is available in plenty in the command area. A provision of Rs 150 lakh has been kept under this head.
- (xvi) Water used in construction activities leads to wastewater generation with high suspended solids. Effluents due to washing from truck or equipment etc. would have high concentration of oil and grease. Quantum of wastewater from such activities can impact the nearby water bodies if surface run off with high suspended solid is washed into them. However, keeping in view the type of project, PP has proposed only small quantity of water would be used in the construction activities as work mainly pertains to the laying of pipeline. Adequate care should be taken so that excess suspended solids in the wastewater are removed before these are disposed into water body or over land.
- (xvii) For Management of Pipeline Leakage and Bursting PP has proposed the following:-

- a. The entire system is managed by SCADA (Supervisory Control and data Acquisition)
- b. To prevent back pressure in case of electricity failure, depending upon surge analysis, single or combination of protection devices like One Way Surge Tank, Air Cushion Valves and Standing Pipes shall be used.
- c. If any leakage/theft/bursting occurs; valves will automatically close
- d. In the worst case scenario, only residual water present in the reach would drain off from the pipeline.
- e. Impact will be local flooding in few hectares only; which is also likely to be drained off quickly as most of the pipeline is aligned at the watershed boundary.
- f. A provisions of two nos of chassis mounted dewatering pumps of adequate capacity has been made for the purpose of clearing the water logged areas during emergency.
- g. A budgetary provision of Rs. 20 lakh and recurring cost of Rs 10 lakh for five years have been made for the same.

(xviii) For afforestation in Command area, PP has proposed that plantation in 150 ha in several patches in non forest waste land will be done subject to availability of suitable land. Apart from Compensatory Afforestation, proposed Voluntary Afforestation on 150 ha is a positive impact The species to be planted will be chosen in consultation with local villagers and will be site specific. These plantations will be maintained for five years & will be handed over to Panchayat for management. The plantations may be done by forest wing of NVDA, forest department or local Panchyat. A provision of Rs. 675 lakh has been made for the same.

(xix) PP has proposed following Preventive Measures for silting in Pipeline:

- a. Rising Main and Gravity Distributaries comprise of the mild steel and Distribution Network (Disnet) up to 2.5 ha chak is of High Density Polyethylene (HDPE).
- b. The pipeline of entire distribution system will have a velocity ranging from 0.6 m/s to 2.1 m/s which will not allow the sediment/silt to settle (Ref: Manual of Water Supply and treatment, CPHEEO)
- c. In addition, scour valves will be provided at suitable locations i.e. lower level of the pipeline to flush the sediment/silt with water to the nearest nalla/stream.

(xx) Anti Corrosion measures. (epoxy paint internally and guniting at outside is proposed where the pipeline is underground. Pipeline exposed to the atmosphere will be painted by epoxy paint both inside and outside to prevent the corrosion)

(xxi) The total cost of the project estimated Rs. 256.16 Crores

(xxii) **Benefit of the project:** Increased agricultural production leading to improved quality of life, Micro irrigation to prevent water logging and related salinity, Biological and ecological changes, Improved livestock, Improved infrastructure facilities, Socio-economic environment, Prevention of migration, Increased industrial activity (workshops/mills), Wasteland re- clamation etc.

Based on the information submitted at Para i to xxi above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 498<sup>th</sup> meeting held on 08.08.2018 and decided to accept the recommendations of 317<sup>th</sup> SEAC meeting held on dtd 20.06.2018.

Hence, Prior Environmental Clearance is accorded under the provisions of EIA notification dtd. 14<sup>th</sup> September 2006 & its amendments to the Proposed " Dhimerkheda Micro Lift

Irrigation Scheme at Dist. Katni, MP, Supply Source: From Right Bank Canal of BDP in Katni District Cultivable Command Area – 15,012 ha, Gross Command Area – 37879 ha by Executive Engineer, Narmada Development Division No. 4, Sihora, Dist.Katni-483225, MP, 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.

**A. Specific Conditions as recommended by SEIAA**

1. The inputs given by the participants during Public hearing should be properly redressed. All the promises and assurances made during the public hearing shall be fulfilled completely by the water resources department GoMP. The implementation of R & R Plan to be closely monitored to ensure that all project affected families (PAFs) get adequate & timely compensation.
2. Besides the agricultural land, the rehabilitation of public buildings, infrastructures, monument etc. falling in the submergence area should also be included in the rehabilitation plan.
3. A monitoring Committee for R & R shall be constituted which must include representatives of project affected persons including form SC/ST community and at least a woman beneficiary.
4. A grievances redress mechanism is to be devised by WRD GoMP and put in place so that aggrieved PAFs and other stakeholders may approach the Authority easily for resolution of any dispute/conflict.
5. The implementation of Local Area Development Plan (LADP) to be closely monitored.
6. This being a seasonal stream/ river, a minimum environmental flow of 30 % in monsoon season should be released for downstream users.
7. Proposed Compensatory Afforestation programme shall be taken-up in consultation with State Forest Department. The allocated grant for this purpose shall be fully utilized and not to be diverted for any other purpose. For compensatory afforestation programme, preference shall be given to native species.
8. Proposed Bio-diversity Conservation & Management Plan in EMP report should be implemented with State Forest Department. The allocated budget for this purpose shall be fully utilized and not to be diverted for any other purpose.
9. The catchment Area Treatment (CAT) Plan as proposed in EMP report shall be strictly implemented in consultation with Madhya Pradesh State Forest Department. Major works shall be completed before impounding of reservoir. The financial allocation for CAT Plan implementation shall be fully utilized and not to be diverted for any other purpose. Catchment Area Treatment Plan as has been proposed should be completed in five years.
10. To enhance the natural environmental quality & aesthetics of project site, greenbelt, as proposed in the EMP Report shall be undertaken in project area. Allocated grant for this purpose shall be fully utilised and not to be diverted for any other purpose.
11. Fishery conservation & management plan as proposed shall be implemented in consultation with the Fisheries Department, Government of Madhya Pradesh.. Allocated grant for this purpose shall be fully utilised and not to be diverted for any other purpose.
12. Occurrence of stagnant pools/slow moving water channels during construction and operation of the project may provide breeding source for vector mosquitoes and other parasites. The river should be properly channelized so that no small pools and puddles are allowed to be formed. Even after taking precaution, due to unforeseen situations, breeding of mosquito and resultant malaria or mosquito

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borne diseases can increase. If such a situation arises, it will be the responsibility of project authorities to take all steps i.e. residual insecticidal spray in all the project area and surrounding 3 km. Area keeping the flight range of mosquitoes in consideration. Also medical assistance to be provided to the affected people at the cost of the developer and appropriate health benefits may be initiated with the help of State Health Department.

13. If the water of reservoir is used for drinking water supply, it should be done after conventional treatment.
14. Regular monitoring of water quality (Surface and Ground) including heavy metals shall be undertaken in the project area and around the project area to ascertain the change, if any, in the water quality due to leaching of contaminants, if any, from the increased use of chemical fertilizers and pesticides.
15. Conjunctive use of surface water shall be planned to check water logging as well as to increase productivity.
16. Consolidation and compaction of the generated muck should be carried-out in the muck dumping site. The entire muck should be utilized for service road and inspection path, formation of embankment, filling trenches, land levelling and construction of CD works etc. The muck disposal sites shall be reclaimed/restored with vegetation once the capacity is utilized.
17. The periodical soil health shall be verified in command area during operation phase to ensure the maintenance of soil fertility.

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

##### **(A) PRE-CONSTRUCTION PHASE**

18. During any construction/plant erection activity, curtaining of site should be carried out to protect nearby areas.
19. Adequate arrangement to prevent incidence of any endemic health problem due to water /soil borne diseases shall be provided.
20. Adequate provisions for re-vegetation, dressing, resurfacing of burrow pits etc. should be ascertained for protecting soil erosion due to runoff during rain.
21. Burning of firewood/fuel by the construction workers for their cooking may have minor impact on the local air quality, which however can be avoided with provision of alternate cooking fuel such as kerosene or LPG gas.
22. For dust mitigation measures following measures shall be adopted:
  - Roads leading to or at construction sites must be paved and blacktopped (i.e. metallic roads).
  - No excavation of soil shall be carried out without adequate dust mitigation measures in place.
  - No loose soil or sand or Construction & Demolition Waste or any other construction material that causes dust shall be left uncovered.
  - Wind-breaker of appropriate height minimum 03 meters shall be provided.
  - Water sprinkling system shall be put in place.
  - Dust mitigation measures shall be displayed prominently at the construction site for easy public viewing.
  - Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.
  - No uncovered vehicles carrying construction material and waste shall be permitted.
  - Construction and Demolition Waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site.
23. PP will obtain other necessary clearances/NOC from respective authorities.

24. The Project Proponent shall advertise at least in two local newspapers widely circulated, 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 shall also be made available to local bodies, Panchayat, State Pollution Control Board and Regional Office, MoEF & CC Gol, Bhopal.
25. Provisions shall be made for the housing of construction/plant erection labor within the site with all necessary infrastructure and facilities such as mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the period.

#### **(B) CONSTRUCTION PHASE**

26. PPE's such as helmet, welding shield, ear muffs etc should be provide to the workers during construction/plant erection activities.
27. Fire extinguishers should be provided on site during construction/ plant erection period.
28. 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&CC/CPCB/MPPCB.
29. All the electrical appliances and digging should be minimum 15 meters away from any permanent structure.
30. Properly tuned construction machinery and good condition vehicles with mufflers (low noise generating and having PUC certificate) should be used and turned off which not in use.
31. DG sets shall be provided with acoustic enclosures to maintain the noise level within the prescribed limits.
32. Waste construction material should be recycles as far as possible and remaining should be disposed off at a designated place in consultation with the local authority.
33. Plantation in patches in suitable land all around the project boundary shall be carried out using tall saplings of minimum 2 meters height of species which are fast growing with thick canopy cover preferably of perennial green nature. As proposed in the landscape plan & EMP. PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
34. MSW of various labors generated during construction/plant erection activities should be disposed off at a designated place in consultation with the local authority.
35. Waste oil & grese generated from the pumps and standby DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.
36. The soil removed during the excavation will be stacked separately and will be used for the green belt development only.

#### **(C) POST CONSTRUCTION/OPERATIONAL PHASE**

37. Plantation shall be carried out by the PP as per submitted plan in the command area or on available degraded land.
38. In the post-irrigation phase, farmers tend to use more fertilizers and pesticides these may result in soil and water pollution. Hence, it should be essential to use the fertilizers and pesticides in a judicious manner without causing soil and water pollution. Awareness program shall be conducted and experts should interact with

the local people who will guide them on the quantity and proper application of fertilizer and Pesticides.

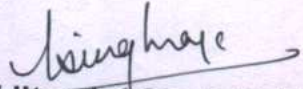
39. Efficient irrigation systems should be promoted in the command area as Social Responsibility by the trained staff of the department.
40. Periodic soil/water testing shall be carried out in the command area and report to be submitted to Ministry of Agriculture with essential remarks.
41. Use of Solar Energy with LED light arrangement in the pump house, site, office building should be promoted in the project area where ever possible.
42. An energy audit for energy conservation can be performed in pump site, office building, to reduce energy expense and carbon footprints.
43. All leakages will be cleaned out in the pump house to prevent wastage of water with the presccibe procedures in the regular intervals.
44. The public toilets should be made in optimum numbers so that entire command area and site should be open defecation free (ODF).
45. The project authorities should comply with the provisions made in the Water (Prevention & control) of Pollution Act 1974, and amended, Construction and Demolition Waste Management Rules, 2016, Solid Waste Management Rules, 2016, etc.
46. Necessary consents shall be obtained from MPPCB and the air/water pollution control measures have to be installed as per the recommendation of MPPCB.
47. Log-books shall be maintained for disposal of all types hazardous wastes and shall be submitted with the compliance report.
48. The project authorities should comply following provisions/ conditions made in the Construction and Demolition Waste Management Rules, 2016.

#### **(D) ENTIRE LIFE OF THE PROJECT**

49. A budgetary provision of Rs. 1414.00 Lakh is made for Environmental Management Plan. Out of which Rs. 450.00 lakhs are proposed for green belt development in the Command Area.
50. The environment policy of the company should be framed as per MoEF&CC guidelines and same should be complied and monitored through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
51. A separate bank account should be maintained for all the expenses made in the EMP activities by PP for financial accountability and these details should be provided in Annual Environmental Statement.
52. All commitments pertaining to public hearing shall be mandatory on part of PP.
53. The environment policy should be framed as per MoEF&CC guidelines and same should be complied and monitored through monitoring cell. In case the allocated EMP budget for mitigative measures to control the pollution is not utilized fully, the reason of under utilization of budgetary provisions for EMP should be addressed in annual return.
54. As proposed, the green belt development / plantation activities should be completed within the first three years of the project and the proposed species should also be planted in consultation with the forest department.



55. In case of any, change in scope of work, technology, modernization and enhancement of capacity/ built-up area/ project area shall again require prior environmental clearance as per EIA notification, 2006.
56. PP shall be responsible for discrepancy (if any) in the submissions made by the PP to SEAC & SEIAA.
57. The validity of the EC shall be as per the provisions of EIA Notification subject to the following: Expansion or modernization in the project, entailing capacity/ built-up area/ project area, addition with change in process and or technology and any change in product - mix in proposed project shall require a fresh Environment Clearance.

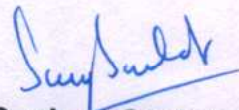
  
(Jitendra Singh Raje)  
Member Secretary

1303  
Endt No. / SEIAA/ 2018  
Copy to:-

Dated 23.8.18

- (1) Principal Secretary, Urban Development & Environment Deptt. 3rd Floor, Mantralaya Vallabh Bhawan, Bhopal.
- (2) Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony Bhopal-462016.
- (3) Member Secretary, MPPCB, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016.
- (4) The Collector, Distt- Katni - M.P.
- (5) The Principal Chief Conservator of forest, Ground floor Satpuda Bhawan, Bhopal (M.P)
- (6) The Add. Chief Conservator of forest (C), Regional Office(WZ), Ministry of Environment & Forests, Kendriya Paryavaran Bhawan, Link Road No-3, E-5, Arera Colony Bhopal (M.P)- 462016
- (7) Director, I.A. Division, Monitoring Cell, MoEF, Gol, Ministry of Environment & Forest Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi – 110 003
- (8) Director (S), Regional office of the MOEF, (Western Region), Kendriya Paryavaran Bhawan, Link Road No. 3, Ravi Shankar Nagar, Bhopal-462016.
- (9) Guard file

Encl: Standard Conditions (Annex-I)

  
(Dr. Sanjeev Sachdev)  
Officer-in-Charge

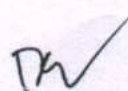
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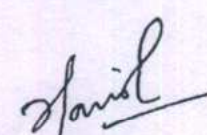
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Environmental Planning & Coordination Organization (EPCO),  
Paryavaran Parisar, E-5. Arera Colony, Bhopal-4620 16

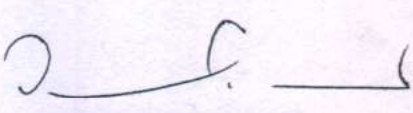
### Annexure-2

#### 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

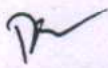
  
(Shri Waseem Akhtar)  
Chairman

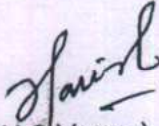
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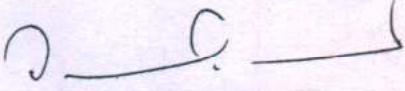
## State Environment Impact Assessment Authority, M.P.

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Environmental Planning & Coordination Organization (EPCO),  
Paryavaran Parisar, E-5, Arera Colony, Bhopal-4620 16

- 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, 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.

  
(Ms Dipali Rastogi)  
Member Secretary I/c

  
(Shri H.S.Verma)  
Member

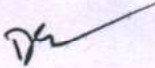
  
(Shri Waseem Akhtar)  
Chairman

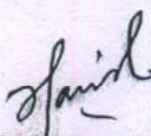
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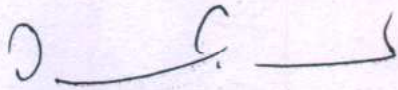
**State Environment Impact Assessment Authority, M.P.**

(Government of India, Ministry of Environment & Forests)  
Environmental Planning & Coordination Organization (EPCO),  
Paryavaran Parisar, E-5, Arera Colony, Bhopal-4620 16

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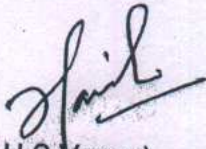
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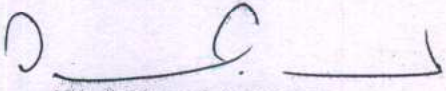
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- proponent shall organize six monthly meetings of the committee and submit the monitoring report to the ministry.
32. Occupational health and safety measures for the workers including identification of work related health hazards, training on malaria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