

The 295<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) was held on 06<sup>th</sup> November, 2017 under the Chairmanship of Mohd. Kasam Khan for the projects / issues received from SEIAA. The following members attended the meeting-

1. Dr. Mohd. Akram Khan, Member.
2. Dr. A. K. Sharma, Member.
3. Dr. Sonal Mehta, Member.
4. Shri Prasant Srivastava, Member.
5. Dr. Jai Prakash Shukla, Member.
6. Shri R. Maheshwari, Member.

The Chairman welcomed all the members of the Committee and thereafter agenda items were taken up for deliberations.

**1. Case No. - 5578/2017 District Magistrate & Collector Bhopal, Collectorate, A-Block, Old Sectt., Bhopal, (M.P.) Prior Environment Clearance for Redevelopment and Redensification of Government Housing under Ram Nagar, Pari Nazar, Bara Mahal Scheme, Tehsil - Huzur, Dist. Bhopal, (M.P) Total Land Area-51700.00 sq.m. (5.17 ha) Proposed built-up area-3888.32 sq.m**

This is a case of Building Construction for Prior Environment Clearance for Redevelopment and Redensification of Government Housing under Ram Nagar, Pari Nazar, Bara Mahal Scheme, Tehsil - Huzur, Dist. Bhopal, (M.P) Total Land Area-51700.00 sq.m. (5.17 ha) Proposed built-up area-3888.32 sq.m.

The project is a construction project falls under Category 8(a) of Building and Construction Project (As per EIA notification dated 14<sup>th</sup> September 2006 and amended to the date) and involves environmental clearance on the basis of Form 1, Form 1A and Conceptual plan. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

Earlier this case was presented by the PP and their consultant in the 294<sup>th</sup> SEAC Meeting dated: 23/06/2017 wherein during presentation and deliberations, it was observed that the site is within 10 Km radius of Van Vihar National Park (a Notified PA). Clearance from NBWL is therefore needed. Thus PP was asked to apply online for NBWL clearance and a copy of the application may be submitted to SEAC for further appraisal of the project.

PP vide letter no. 9893 dated 24/06/17 has submitted the copy of online application submitted for NBWL clearance (FP/MS/Other/1694/2017) and the same was forwarded by the SEIAA vide letter no. 1030 dated 26/09/2017.

The case was presented by the PP and their consultant wherein following details were provided by the PP:

<b>S.No.</b>	<b>Particulars</b>	<b>Status</b>
1	Name of the project & its location	(a) Redevelopment and Redensification of Government Housing Under Ram Nagar-Pari Bazaar-Bara Mahal Scheme  (b) Location-Shahjahanabad, Bhopal (M.P.)
2	Name of the Company, Address Tele No. & Email	Govt. MP  D.M and collector Bhopal, Collectorate A-Block, Old Secretariat, Bhopal M.P – 462001,  Tel: 0755-250494  Nodal Agency: Bhopal Development Authority, Bhopal  Chief Executive Officer / Executive Engineer, Pragati Bhawan, Press Complex, Zone-1, M.P.Nagar, Bhopal (M.P)  Tel: 0755-2555670  Email: <a href="mailto:mishrask24@gmail.com">mishrask24@gmail.com</a>

3	Latitude and Longitude of the project	<p>PWD Stores (LA-23°15'52.55"N &amp; LO-77°23'15.03"E),</p> <p>PWD Quarters (LA-23°15'58.40"N &amp; LO-77°23'16.30"E),</p> <p>Ram Nagar (LA-23°16'29.94"N &amp; LO-77°23'20.41"E),</p> <p>HT Quarters (LA-23°16'23.10"N &amp; LO-77°23'28.08"E)</p>
4	If a Joint venture, the name & addresses of the JV partner including their share	NA
5	Project brief: Nature of proposal (new/expansion), total area-land use, project components, connectivity to the site etc.	<p>Redevelopment &amp; Redensification of existing Govt. Quarters.</p> <p>Building and Construction project (new)</p> <p>Category of project 8(a) "B"</p> <p>Total land area -5.17 hect.</p> <p>Land Use – Residential as per Bhopal Development Plan 2005 and layout is approved by Town Country Planning.</p> <p>Total Built Area up – 38888.00 sqm.</p> <p>Total 460 no. Govt. Quarters and an Old Age Home will be constructed.</p> <p>Connectivity of site- The project is located in developed area of old Bhopal at Ram Nagar-Pari Bazaar-Bara Mahal Shahjahanabad. The site</p>

		is connected with Sultania Road & Noor Mahal Road.
6	Cost of the project	98.6215 Crore
7	Whether the project is in Critically Polluted area	No
8	<p>If the project is for EC under EIA Notification, 2006</p> <p>(a) For the first time appraisal by EAC,</p> <p>(i) Date of ToR</p> <p>(ii) Date of Public Hearing, location</p> <p>(iii) Major issues raised during PH and response of PP</p> <p>(b) Second appraisal,</p> <p>(i) Date of first / earlier appraisal</p> <p>(ii) Detail of the information sought by the EAC with the response of the PP</p>	<p>Project for EC</p> <p>NA</p> <p>(The case was first time presented in 294<sup>th</sup> SEAC meeting dated. 23 June 2017, in which committee instructed to apply online for NBWL clearance and submit a copy of the application to SEAC for further appraisal of project.)</p> <p>Applied on 23-June-2017 for NBWL clearance.</p>
9	<p>If the project involves diversion of forest land</p> <p>(i) Extend of the forest land</p> <p>(ii) Status of forest clearance</p>	NO
10	<p>If the project falls within 10 km of eco-sensitive area</p> <p>(i) Name of eco-sensitive area and distance from the project site</p> <p>(ii) Status of clearance from National Board for wild life</p>	<p>(i) Yes, Van Vihar National Park - 3.8 km towards south-west</p> <p>(ii) Applied on 23-June-2017 and NOC is under process</p>

<p>11</p>	<p>Waste Management</p> <p>(i) Water requirement, source, status of clearance</p> <p>(ii) Waste water quality, treatment capacity, detail</p> <p>(iii) Recycling / reuse of treated water and disposal</p> <p>(iv) Solid waste Management</p> <p>(v) Hazardous Waste Management</p>	<p>(i) 319 KLD, Permission received for water supply by B.M.C, Bhopal</p> <p>(ii) 256 KLD, Bhopal Municipal Corporation has issued NOC to connect the project's sewer line to the existing sewerage network of B.M.C, Bhopal</p> <p>(iii) NA</p> <p>(iv) 1432 Kg/Day, Bhopal Municipal Corporation issued permission to take care of solid waste</p> <p>(v) NA</p>
<p>12</p>	<p>Other detail</p> <p>(i) Noise Modeling with noise control measures for airport</p> <p>(ii) Detail of water bodies, impact on drainage if any</p> <p>(iii) Detail of tree cutting</p> <p>(iv) Energy conservation measures with estimated saving</p> <p>(v) Green belt development (20% of construction and 33% for others)</p>	<p>(i) NA</p> <p>(ii) NA</p> <p>(iii) Total 121 no. of trees will cut and applied for NOC to Nagar Nigam.</p> <p>(iv) 30% reduction in energy consumption can be achieved by using LED lights</p> <p>(v) Provided</p>

	(vi) Parking requirement with provision made	(vi) Total Parking Required – 389 Nos. Total Parking Proposed - 389 Nos.
13	If the project involves foreshore facilities (i) Shoreline study  (ii) Dredging details, disposal of dredge material  (iii) Reclamation (iv) Cargo handling with dust control measures (v) Oil spill Contingent Management Plan	NA
14	It the project involves Marine disposal (i) NOC from PCB in case of marine disposal (ii) Details of modeling study – details of outfall diffusers, number of expected, distance at which the outlet will reach ambient parameters 9 (iii) Location of intake / outfall, Quality (iv) Detail of monitoring at outfall (v) Any other relevant information	NA
15	Other information Investment / Cost of the project is	98.6215 Crore,

	Rs.....(in crore) Employment potential..... ..... Benefits of the project	Employment will be generated for labors.  Residential accommodation for Govt. MP for their employees
16	Date of Ground Water Clearance	NA
17	Date of mine closure approval	NA
18	Any river / nallah flowing near or adjacent to the proposed mine. If yes, please give details	NA

During presentation, PP informed that no STP is proposed for this project as the sewage and waste water will be discharged in municipal drains and same will be treated in the PHE STP of 25 MLD capacity at Maholidamkheda for which necessary sewage discharge approval is obtained by them. PP further submitted that permission for MSW disposal and water supply are also obtained by them and no construction activities are initiated yet. After presentation, PP was asked to submit response on following:

1. Plantation is to be completed in the initial three of the project. PP was asked to submit year wise number of plantation proposed with commensurating budgetary provisions.
2. It was suggested to the PP that during construction phase, no effluent should be discharged without settlement for which a commitment should be submitted by the PP.
3. Details of Environment Management Cell should also be furnished.

PP vide letter no. 317/04/EE-8/BDA dated 06/11/2017 has submitted the reply of above queries which was found satisfactory and acceptable to the committee. Hence

the case was recommended for grant of prior EC subject to the following special conditions:

**(A) PRE-CONSTRUCTION PHASE**

1. During demolition of old structures, the entire area should be covered with 12 feet MS sheets and due care should be taken for noise and vibration control during demolition work.
2. Curtaining of site should also be carried out to protect nearby habitat.
3. No demolition work should be carried out during night hours.
4. For dust suppression, regular sprinkling of water should be undertaken
5. PP will obtain other necessary clearances/NOC from respective authorities.
6. Provisions shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, 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.
7. The grant of Environmental Clearance should be subject necessary Wild Life Clearance from NBWL to be obtained by PP.

**(B) CONSTRUCTION PHASE**

8. During construction phase, a settling tank should be provided before final discharge of the effluent.
9. PPE's such as helmet, ear muffs etc should be provide to the workers.
10. Fire extinguishers should be provided on site during construction period.
11. Properly tuned construction machinery and good condition vehicles (low noise generating and having PUC certificate) should be used.
12. 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.
13. Peripheral plantation 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 a minimum of 496 no's of trees will be planted. (230 within the premises and 266 on the location outside of the projector area ) PP will also make necessary arrangements for the causality replacement and maintenance of the plants.
14. MSW storage area should have 48 hours storage capacity and MSW should be disposed off at a designated place in consultation with the local authority.
15. As proposed, 12 number rain water harvesting pits (size 2.4mx1.5mx1.8m) should be provided and their design should be based on recharge rate study.

16. CFL/LED should be preferred over of tube lights.
17. Provision for physically challenged persons be made so that they easily excess pathway/derive way for their vehicles.
18. PP should explore the possibility of providing solar street light.
19. Waste oil generated from the DG sets should be disposed off in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining authorization.

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

20. Fresh water requirement for the project shall not exceed 319 KLD.
21. As proposed, the sewage and waste water will be discharged in municipal drains and same will be treated in the PHE STP of 25 MLD capacity at Maholidamkheda for which necessary sewage discharge approval is obtained by them form the municipal corporation.
22. Proper fire fighting arrangements in consultation with the fire department should be provided against fire incident.
23. Fund should be exclusively earmarked for the implementation of EMP through a separate bank account.

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

24. PP has proposed Rs. 45.00 lacks for green belt development and Rs. 20.00 lacks/year for recurring expenses in the proposed EMP of this project.
25. 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.
26. The project authorities should comply with the provisions made in the Hazardous Waste (management, handling & Trans-boundary Movement) Rules 2016, Plastic Waste Management Rules 2016, e-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016 and Solid Waste Management Rules, 2016 etc.
27. 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.
28. 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 mining unit shall require a fresh Environment Clearance.

**2. Case No. - 5496/2017 Shri Shardul Shah, Director India Waste Management Pvt. Ltd, 30, MLA Quarters, Bhadbhada Road, T.T. Nagar, Bhopal, (M.P) – 462003 Prior Environment Clearance for Common Bio Medical Waste Treatment Facility at Plot No. E3, Industrial Area No. –II, Mandideep, Tehsil - Goharganj, Distt.- Raisen, (M.P.) Cat. 7 (da) Common Hazardous Waste Treatment Storage and disposal facilities (TSDFs)**

The proposed project is for setting up of common bio-medical waste treatment facility and project falls under Category “B” Projects of activity 7 (da) as per EIA Notification dated 14th September, 2006 and its subsequent amendments dated 17th April 2015, under Bio- Medical Waste Treatment Facilities. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

**PROJECT DETAILS**

- M/s India Waste Management Pvt. Ltd. is proposing to establish Common Bio-Medical Waste Treatment Facility near Bhopal in district Raisen to provide cleaner and healthier environment.
- The project Incharge is Mr. Shardul Shah (Director).
- The project site is industrial plot having an area of 2.0006 ha. land is on lease by AKVN to M/s India Waste Management Pvt. Ltd.
- Collection, transportation, storage & treatment of Bio Medical Waste as stipulated in Biomedical Waste Management Rules, 2016 and CPCB Guidelines for installation of Common Bio-medical Waste Treatment Facility.

<b>Project Name</b>	<b>Common Bio Medical Waste Treatment Facility (CBWTF)” of M/s India Waste Management Pvt. Ltd.</b>		
<b>Director</b>	<b>Shardhul Shah</b>		
<b>Project Site</b>	<b>E3 – New Industrial Area No. – II, Mandideep, Tehsil - Goharganj; District – Raisen, Madhya Pradesh</b>		
<b>Project Area</b>	<b>20006.669 sq. mt. 2.0004 Ha.</b>		
	<b>Work Shed</b>	<b>4856.04 sq.m.</b>	<b>24.3%</b>
	<b>Staff Rooms &amp; Open Surface</b>	<b>8548.629 sq.m.</b>	<b>42.7%</b>
	<b>Green Area</b>	<b>6602 sq.m.</b>	<b>33%</b>
	<b>Total</b>	<b>20006.669 sq.m.</b>	<b>100%</b>
<b>Project Capacity</b>	<b>Particular</b>	<b>Capacity</b>	<b>Nos</b>
	Incinerator	250 kg/hr.	1

	Autoclave	100 kg/hr. (50 Kg/hr Each)	2	
	Shredder	200 kg/hr. (100 Kg/hr Each)	2	
	Effluent Treatment Plant	200 KLD	1	
	Boiler	2000 kg/hr (1000 Kg/hr Each)	2	
<b>Green Belt Area</b>	<b>6602 sq. m. (33%)</b>			
<b>Total Project Cost</b>	<b>Rs. 1018.87 Lakhs</b>			
<b>Power Requirement &amp; Source</b>	<b>1000 KVA Source : MPEB (Madhya Pradesh Electricity Board)</b>			
<b>Power backup</b>	<b>DG Set – 500 kVA</b>			
<b>Water Requirement &amp;</b>	<b>Total requirement will be ~75 KLD</b>			
	Floor washing, container washing, incineration etc.	72.00 KLD		
	Domestic Use	3.00 KLD		
	<b>Total</b>	<b>75.00 KLD</b>		
<b>Source of Water</b>	AKVN Source			
<b>Effluent Treatment Plant &amp; disposal</b>	200 KLD capacity ETP Sludge: Disposed through Incineration			
<b>Fuel Requirement</b>	432 KL/Annum of Diesel Source: Nearest Petroleum Depot			
<b>Man Power Requirement</b>	25 Persons			
<b>Nearest Railway Station</b>	Mandideep Railway Station ~6.0 km towards NW direction			
<b>Nearest Airport</b>	Bhopal Airport ~ 37.8 km towards NW			
<b>Coordinates</b>	<b>Latitude</b>	<b>Longitude</b>		
	23° 4'47.62" N,	77°32'21.34"E		
<b>Water requirement</b>	<b>Phase – 1</b>	75 KLD per day	(72 KLD for incinerator; 3 KLD for domestic purposes)	
	<b>Phase – 2</b>	44 KLD per day	Total – 119 KLD per day	

	<b>Phase – 3</b>	33 KLD per day	Total – 152 KLD per day
	<b>Phase – 4</b>	33 KLD per day	Total – 185 KLD per day
	<b>Phase – 5</b>	75 KLD per day	Total – 260 KLD per day

Earlier Case was discussed in 294<sup>th</sup> SEAC Meeting dated 23/06/2017 wherein it was observed that case was presented by the PP and their consultant in the 287<sup>th</sup> SEAC meeting dated 25/02/2017 wherein it was observed from the Google image based on the co-ordinate provided by the PP that a habitation could be seen approx 75 meters away from the location of the facility (SE side). PP and consultant submitted that this habitat is illegal encroachment and site for facility is being selected as per the Biomedical Waste Management Rules, 2016 and “Revised Guidelines for Common Bio-medical Waste Treatment and Disposal Facilities” published by Central Pollution Control Board in December 21, 2016 wherein it is prescribed in location criteria 6(a) that “A CBWTF shall preferably be developed in a notified industrial area without any requirement of buffer zone” and this facility is located in the Mandideep Industrial Area.

After deliberations committee decided to recommend standard TOR prescribed by the MoEF&CC for conducting the EIA study along with following additional TOR's:

- a. Considering habitation near to the project site (on the SE side), PP will carry out air modeling selecting suitable software and discuss in EIA report where maximum GLC would occur. PP will also submit the exact distance of nearest habitat (on the SE side) from the all four corners of the project location and justify that this CBWTF will not cause any adverse impact on environment and habitation in the vicinity.
- b. Data collection of EIA should be done under the intimation to the M.P. Pollution Control Board, Bhopal. PP may also use the M. P. Pollution Control Board's laboratory for monitoring of air, noise water and soil.
- c. One monitoring location should be fixed in the nearby habitation (on the SE side) for monitoring of air, noise water, soil etc.
- d. Considering habitation near to the project site (on the SE side), PP should provide the details of habitations with sensitive features such as no. of houses, no. of residents and details of other structures such as schools, hospitals, source of water supply etc.

- e. *Justify in EIA report considering habitation near to the project site (on the SE side) that the proposed technology is “Best Available Technology” of CBWTF and also how unit will remain zero discharge.*
- f. *Maximum storage time of Bio-medical waste within the facility and disposal plan of autoclaved material should be discussed in the EIA report.*
- g. *Monitoring of VOC should be added in the proposed monitoring protocol of EIA study.*
- h. *Inventory of existing trees with their species and numbers on the proposed site, any tree falling anticipated and proposed plantation scheme.*
- i. *In the EIA report, PP should provide the type of industries existing in the area with the list of MP, AKVN, Bhopal.*

*This ToR is in respect of Common Bio Medical Waste Treatment Facility (CBWTF) only excluding laundries proposed in same premises in different phases. However, impact of these laundries should be discussed in detail while presenting worst case scenario.*

The case was scheduled for the presentation of the EIA report in 294<sup>th</sup> SEAC Meeting dated 23/06/2017, wherein PP and their consultant were present. During initial discussions Bhopal based committee members informed Chairman that the EIA report of the project was delivered to them yesterday (i.e. 22/06/2017) by the late evening and thus they could not go through the contents of EIA report. Two members from Indore informed that they have not even received the EIA report and thus unable to offer any comments on it. The committee was of the opinion that EIA report should be made available to members by PP at least 07 days before the meeting so that during appraisal of the case suitable comments / recommendations can be made. PP present during discussion admits that the EIA report was circulated on 22/06/2017. The committee after deliberations decided that to differ the case for the upcoming SEAC meeting and PP was also instructed to provide a copy of the EIA report to all the members of the committee for further appraisal of the project.

PP has submitted the EIA report vide letter no. 19/06/17 which was forwarded by SEIAA vide letter no. 829 dated 22/06/2017.

The case was scheduled for the presentation today but neither the Project Proponent (PP) nor his representative was present to explain the query which might be raised or to make any commitment which may be desired by the committee during the deliberation. However, PP vide letter dated 03/11/2017 has informed that due to pre occupying activities, they will not be able to present their case in this meeting and requested for its rescheduling in the forthcoming meetings. The committee after deliberations decided that on request of the PP this case should be scheduled in the upcoming meetings of the SEAC.

**3. Case No. – 5528/2017 Executive Engineer, Narmada Development Division No. - 8, Sanawad, Distt. - Khargone (M.P.) Prior Environment Clearance for Micro Irrigation Project at Balwada, Teh. - Sanawad, Distt. - Khargone, (M.P.) Cat. 1(c) River Valley and Hydroelectric Projects. EIA Consultant: R. S. Envirolink Technologies Pvt. Ltd., Gurgaon.**

This is a River Valley projects involving < 10,000 ha. of culturable command area and denies the general conditions falls under category "B" and have been mentioned at SN. 1(c) column B of Schedule of EIA Notification, hence such projects are required to obtain prior EC from the SEIAA. The application for EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP.

**1.0 Introduction :-**

A pilot scheme of smaller quantum named Narmada Kshipra Simhastha Link was conceived to lift 5 cumecs of water from sisaliya tank and to deliver water into Kshipra River to cater domestic / industrial needs of Dewas/Indore and Ujjain district as well as to suffice the water needs during Simhastha Mela in the year 2016. The project has been completed in Dec.2014.

The cultivators of the proposed scheme were not having sufficient reliable irrigation scheme. Local cultivators along with M.L.A have demanded the irrigation scheme for the proposed area. Many cultivators are of the opinion that various lift irrigation schemes are crossing from our fields but we are not getting irrigation benefits from the scheme. They have raised their demand for irrigation water during the environmental public hearing held on 03.06.15 at Balwada. Therefore the scheme is necessary for benefit of cultivators of Balwada area. In this proposed scheme water will we take from Narmada Kshipra link BPT-1 at R.L. 330m near Balwada, Dist. Khargone. The scheme is proposed to irrigate about 5000 ha Land of 19 Gram panchayat of Barwaha Tehsil of Khargone District by micro irrigation.

**2.0 Present Proposal:**

Under this scheme it is proposed to utilize 1.25 cumec of water of NKSL Project to irrigate about 5000 ha area by drip irrigation or sprinkler system in Maheshwer constituency of district Khargone . Following are the technical parameters:-

- |    |                       |   |               |
|----|-----------------------|---|---------------|
| 1. | Off taking from BPT 1 | - | Level 330 M.  |
| 2. | Discharge             | - | 1.25 Cumec.   |
| 3. | Average command level | - | 280 to 250 M. |

Length of proposed main pipe line from BPT-1 to junction structure is 2.00 km. From junction structure the left bank pipe line is 10.00 km length will carry 0.40 cumec discharges & Right bank pipe line is 18 km. will carry 0.85 cum. discharge. The levels of fields in the command area vary from 280 M. to 250 M. Hence, the cultivation shall also be motivated to adopt Drip or Sprinkler system Irrigation to have optimal utilization of value added water, so as to arrive at a duty of 0.25 Lps/Ha.

**The detailed technical features are as under:-**

Particulars	Main Canal Pipe Line	Left Bank Pipe Line	Right Bank Pipe Line
(i) Length of the canal	2.0 km	10Km	18Km
(ii) Dia of Pipe (Maximum)	1200mm	800mm	1000mm
(iii) Discharge	1.25 cumec	0.40 cumec	0.85 cumec
(iv) Area covered	-	1600 ha.	3400 ha.
(v) No. of Panchayat benefited	-	4 nos.	10 nos.
(vi) Method of Irrigation- DripIrrigation,	Duty-0.25 Lps/Ha.		

The diameter of pipe shall reduce in telescopic manner. The administrative approval has been taken on toposheet studies. Tender were received on turnkey basis lowest bidder Laxmi Civil Engineering Services Pvt. Ltd. (JV) has made agreement on 20.08.2016. It is proposed to provide irrigation water up to 1.00 Ha. Sub chak by Drip Irrigation/sprinkler System, so as to have optimum utilization of value added water. No energy will be required to deliver water in the fields as sufficient static head is available. Hence it will be most economical and viable scheme.

**The benefits of Drip Irrigation System are enumerated as under:-**

1. Pressure compensated dripper with self cleaning and self flushing mechanism.
2. Low pressure dripper.
3. Low flow dripper.
4. Pumps at the individual farmer's field will not require.
5. The recurring expenses on account of power requirement for operation of the system are minimized.
6. Optimum utilization of water for irrigation.
7. Increase in agriculture production with minimum water.

Earlier this case was presented by the PP and their consultant in 289<sup>th</sup> SEAC Meeting dated 28/04/2017. wherein during presentation it was observed that apprx. 0.95 ha forest area is involved in the project for which PP submitted that they have obtained the Forest Clearance. The committee after deliberation asked PP to annex this FC clearance with the EIA report. PP further submitted that it's an extension of earlier Narmada-Kshipra Link Project as a part of commitment was made during public hearing. During presentation PP informed that they have started collecting the part of baseline data from March, 2017. After deliberations committee decided to recommend standard TOR prescribed by the MoEF&CC for conducting the EIA study along with following additional TORs:

1. A detail of the source (quantum of water available, other potential users etc.) from where water is envisaged to be lifted shall be furnished.
2. Places where diversions of nallah/natural drains are proposed should be detailed out in the EIA report.
3. Sedimentation study in the pipe lines including the deposition, scaling etc should be furnished with EIA report along with the methodology proposed for its cleaning.
4. Economic viability and cost benefit analysis should be conducted and presented in the EIA report should also take into consideration environmental/ecological cost-benefits.
5. How micro-irrigation technology shall be implemented in this project after the completion of the project should be discussed in the EIA report.
6. The study area for the EIA shall include 2.5 Km area on either sides of the pipeline.
7. Management plan for dug-out material generated during laying / construction of the pipe line / structures.

8. An inventory of various features such as sensitive area, fragile areas, mining / industrial areas, habitation, water-bodies, major roads, etc. shall be prepared and furnished with EIA.
9. An inventory of flora & fauna based on actual ground survey shall be presented.
10. As forest land is involved in the project FC stage to be clarified with supporting documents.
11. PP should also explore the possibility of reducing proposed power requirement and methods proposed for dealing with back pressure in case of electricity failure should be studied in the EIA report.
12. EIA report should cover impact of anticipated change in cropping pattern and associated activities like horticulture, animal husbandry etc.
13. PP should carry out the public hearing of the site as per the procedure laid down in the EIA Notification, 2006.

PP has submitted the EIA report vide letter no. 11/09/17 which was forwarded by SEIAA vide letter no. 1034 dated 26/09/2017.

The case was presented by the PP and their consultant wherein it was observed that approx. 0.95 ha forest area is involved in the project for which PP submitted that they have obtained the Forest Clearance from DFO, Barwaha vide letter no. 1216 dated 09/03/2017. PP further submitted that being the area is less than 1.00 ha., DFO is empowered for diversion of forest land. PP also submitted that since no permanent land acquisitions is required thus no process of land acquisitions is initiated till date and further they were in impression that any action including land acquisition can only be initiated after EC is granted. However, they have carryout the primary survey of the area for temporary land acquisition. It was also presented by the PP that 45 trees will be uprooted for this project after the permission of competent authority for which committee suggested that 05 times compensatory plantation should be carried out against the number of the uprooted trees. During evaluation of the project it was observed that a schedule I species “ Indian Peafowl” is reported in the EIA report for which PP submitted that during survey no such species was sighted by them but the same is reported in the official documents thus PP was advised to obtain approval of competent authority before execution of project if such species is seen/ observed in the project site. After presentation, PP was asked to submit response on following:

1. No digging should be carried out within the 15 meters of any structure (intended to 01 meter digging) for which a written commitment should be submitted by the PP.
2. There are some changes in the project details when compared with the TOR and EIA. PP submitted that at the time of TOR estimated details were

- provided and now in EIA they have submitted exact details for which PP was asked to submit a written confirmation of the statement.
3. Response from PP to the queries raised during public hearing is not submitted by the PP and thus the same should be submitted.
  4. Disposal plan of waste oil generated from the DG sets should be provided.
  5. Primary survey of the area for temporary land acquisition with details of PEP's.
  6. Details of facilities to be provided to the workers with their budgetary provisions should also be submitted.
4. **Case No. - 5530/2017 Executive Engineer, Office of the Executive Engineer, Narmada Development Division No. 18, Distt. – Khargone (M.P.) Prior Environment Clearance for Biston Lift Irrigation Scheme at 8 Vilages of Khargone Tehsil, 47 Vilages of Gogawa Tehsil, 37 Vilages of Bhagwanpura Tehsil at Distt. - Khargone, (M.P.) EIA Consultant: R. S. Envirolink Technologies Pvt. Ltd., Gurgaon.**

This is a River Valley projects involving < 10,000 ha. of culturable command area and denies the general conditions falls under category "B" and have been mentioned at SN. 1(c) column B of Schedule of EIA Notification, hence such projects are required to obtain prior EC from the SEIAA. The application for EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP.

### **INTRODUCTION:-**

#### **1.1 (i) AIM(S) OF THE PROJECT WORK :**

The main objective of Bistan Lift Irrigation Scheme is to provide irrigation facilities to the water-scare areas in left side of Narmada basin where the level of irrigation is very much less as compare to national irrigation percentage. The Bistan Lift Irrigation Scheme has been conceived to cater irrigation water to about 22,000 ha. of CCA Khargone districts of Nimar region along with water for drinking and Irrigation purposes. Total 8 villeges of Khargone Tehsil, 47 villeges of Gogawa Tehsil , 37 villeges of Bhagwanpura Tehsil of Khargone district will be benefited by this scheme. Bistan lift canal takes off at R.D. 101 km. of ISP main canal which has designed to carry a discharge of 8.0 cumecs. At intake well point of Bistan lift scheme, the discharge of ISP Main canal is 72 cumecs.

## 1.2 Location of Project :

The project area is spreaded in Khargone Distt. of M.P. The supply source i.e. Indira Sagar Project reservoir, lifting point, pump houses and rising main lie in Khargone District of Nimar region and the water lifted from Indira Sagar Main Canal at km.101 near village mohammadpur in Gogawa Tehsil of dist. Khargone while Distribution chamber is situated near village Merghatti and Devalgaon in Bhagwanpura tehsil of dist. Khargone total command area of project lies between command area of Khargone lift canal and forest boundary north to south & Kunda river to upper beda command west to east.

## 2.0 Present Proposal:

1. Name of the Project. : Bistan Lift Irrigation Project
  
2. Type of Project : Irrigation Project  
( Irrigation or Multipurpose) :
  
3. Location :

  - ii) Supply Source : In Khargone District Indira Sagar Reservoir
  
  - i) Lifting Point ; : In Khargone District, Near Mohammadpur village ISP Main Canal at RD 101 km.
  
  - iii) Feeder Reservoir : Indira Sagar Reservoir
  
  - iv) Command : In Khargone District

  
- 3.1 River Basin

  - a) Name :

    - i) Lifting : Narmada Basin
    - ii) Command : Lower Narmada Sub Basin (3b).

b) Located in : Madhya Pradesh

3.2 River / Tributaries : Narmada River

3.3 State(s) / District(s) or Tehsils in which following are located.

	State	District	Tehsil
(a) Reservoir (Supply Source) :	M.P	Khandwa	Punasa
(b) Lifting Point / Rising Main :	M.P	Khargone	Gogawan
(c) Command Area :	Khargone District		Teshil
		(i) Khargone	
		(ii) Gogawa	
		(iii) Bhagwanpura	

3.4 Name of Village near the Head-works

Lifting Point : ISP Main Canal Khargone Mohammadpur

3.5 Location of Head-Works :

1) Lifting Point : ISP Main Canal RD 101 km

(a) Longitude : 75<sup>o</sup>35' 45"  
 (b) Latitude : 21<sup>o</sup>44' 25"  
 (c) List in Earthquake Zone No. : Zone-III (Moderate Seismic)

2) Delivery Point : *Mehar GHatti & Devalgaon*

c) List in Earthquake Zone : Zone-III (Moderate Seismic)

3.6 Project area reference to : as detailed below

**3.7. Access to the Project.**

a) Nearest Airport : i) Devi Ahilya Airport Indore (M.P.)  
 130 km. from Mohammadpur village

b) Nearest Rail Head : ii) 60 km from Sanawad

**4. Interstate aspects of the project**

- (a) Catchment area of the basin. : It is a lift scheme hence no independent catchment is being harnessed.
- (b) State-wise / Country-wise details : Not applicable  
of Catchment area.
- (c) Submergence due to project : No submergence due to project, as it is a lift scheme
- (d) Water allocation for the state (if any) : The Quantum of water being lifted for this project is included in the water share of M.P. as per NWDT award.
- (e) Proposed annual utilization by the project (82.94 Mcum)

Irrigation : 8.00 cumecs.

5. Estimated life of the project (years) : 50 Year

6. Irrigation (ha.)

(a) Gross command area (GCA) : 34,500 Hectare

(b) Culturable command area (CCA) : 22,000.Hectare

**7. Project Performance**

(a) Irrigation : 22,000.Hectare

8. Head Regulator(s) : Intake well at Lifting point ,&Outlet regulators at D C and Main pipe line.

**9. Canal System**

9.1 Main Canal (Piped) : Piped network as per Design

9.1.1 Purpose of Canal : Irrigation

9.1.2 Type : Rising Main Pipe Canal

(M.S. /DI Pipe)

(a) Flow/ : Piped system

- (b) Lined/unlined : Not applicable
- (c) Discharge capacity of the : Not applicable (Piped Canal)  
channel above which lining is proposed
- (d) Type of lining : Not applicable

Earlier this case was presented by the PP and their consultant in 289<sup>th</sup> SEAC Meeting dated 28/04/2017 wherein during presentation PP informed that they have started collecting the baseline data from March, 2017. After deliberations committee decided to recommend standard TOR prescribed by the MoEF & CC for conducting the EIA study along with following additional TORs:

1. A detail of the source (quantum of water available, other potential users etc.) from where water is envisaged to be lifted shall be furnished.
2. Places where diversions of nallah/natural drains are proposed should be detailed out in the EIA report.
3. Sedimentation study in the pipe lines including the deposition, scaling etc should be furnished with EIA report along with the methodology proposed for its cleaning.
4. Economic viability and cost benefit analysis should be conducted and presented in the EIA report should also take into consideration environmental/ecological cost-benefits.
5. How micro-irrigation technology shall be implemented in this project after the completion of the project should be discussed in the EIA report.
6. The study area for the EIA shall include 2.5 Km area on either sides of the pipeline.
7. Management plan for dug-out material generated during laying / construction of the pipe line / structures.
8. An inventory of various features such as sensitive area, fragile areas, mining / industrial areas, habitation, water-bodies, major roads, etc. shall be prepared and furnished with EIA.
9. An inventory of flora & fauna based on actual ground survey shall be presented.
10. As forest land is involved in the project FC stage to be clarified with supporting documents.
11. PP should also explore the possibility of reducing proposed power requirement and methods proposed for dealing with back pressure in case of electricity failure should be studied in the EIA report.
12. EIA report should cover impact of anticipated change in cropping pattern and associated activities like horticulture, animal husbandry etc.

13. If any forest area is involved in the project, FC clearance should be obtained and same be annexed with the EIA report.
14. PP should carry out the public hearing of the site as per the procedure laid down in the EIA Notification, 2006.

PP has submitted the EIA report vide letter no. 16/10/17 which was forwarded by SEIAA vide letter no. 1068 dated 24/10/2017.

The case was presented by the PP and their consultant wherein following details as executive summary were submitted by PP:

**1. Name of the project & its location:**

**Bistan Micro Lift Irrigation Scheme**

The project area lies in Khargone district. The supply source Indira Sagar Canal near Mohammadpur village in Gogawan tehsil , Khargone District , M.P.. Command area lies in Khargone , Bhagwanpura and Gogawan.

**2. Name of the Company, Address Tele No. & E-mail :**

GOVERNMENT OF MADHYA PRADESH, NVDD  
EXECUTIVE ENGINEER  
NARMADA VALLEY DEVELOPMENT AUTHORITY  
DIVISION NO.18, KHARGONE,  
DIST.KHARGONE, M.P.-451001  
EMAIL ID: [eedn18kgn@gmail.com](mailto:eedn18kgn@gmail.com)  
Land Line No.: 07282-231152  
Mobile No. 8965958899

**3. Latitude and Longitude of the project.**

Location of headworks: Lifting point:

Longitude: 75<sup>0</sup> 35' 45"

Latitude: 21<sup>0</sup> 44' 25"

**4. If a Joint venture, the names & addresses of the JV partners including their share.**

Not applicable

**5. Project brief: nature of proposal (new/expansion,) total area- land use, project components, connectivity to the site etc.**

The Bistan Micro Lift Irrigation Scheme has been conceived to irrigate about 22,000 ha of CCA in Khargone district.:

- Construction of 2 nos of pump houses.
- Rising Main pipe line.
- Distribution network pipeline.
- Electrical Transmission line.

**Access to the project:**

- Nearest Airport : Devi Ahilya Airport Indore (M.P.) is 130 km from lifting point
- Nearest Rail Head MG: Sanawad, and is 60 km from Lifting Point

**Land Requirement:**

**Forest Land:**

The entire micro irrigation system along with transmission lines required has been aligned in such a way, that minimum forest area is diverted for the purpose. Therefore, only 0.97 ha of forest land is required for the project for which clearance from the forest department has been obtained.

**Government/Private Land**

For construction of pump houses and distribution chamber of the project, total land requirement has been worked as 3.03 ha; which is government land. No private land required for the project for permanent acquisition.

**Temporary Land for Laying of Pipeline**

The pipe shall be laid 1.00 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. Wherever, the pipeline will be pass through private land, temporary land acquisition will be done as per Bhumigat Pipeline Cable Avam Duct Adhiniyam, 2012 and Right to fair compensation and transparency in land acquisition, rehabilitation and resettlement act, 2013. The temporary land requirement is approximately 45ha.

**6. Cost of the project: 515.10 crore.**

**7. Whether the project is in Critically Polluted area.**

No

- 8. If the project is for EC under EIA Notification, 2006 a) For the first time appraisal by EAC (i) Date of ToR: (ii) Date of Public Hearing, location (iii) Major issues raised during PH and response of PP b) Second appraisal (i) Date of first /earlier appraisal (ii) Details of the information sought by the EAC with the response of the PP.**

For the present case, Form 1 was submitted online on March 14, 2017. Scoping clearance for the project was recommended by SEAC during its 289th meeting held on April 28, 2017.

Public Hearing for Bistan Micro Lift Irrigation Scheme was conducted by Madhya Pradesh State Pollution Control Board (MPSPCB) on 21st August 2017 at Gram Panchayat Bhawan, Badgaon, Tehsil Gogaon, District Khargone.

During the public hearing, public in one voice asserted that project should implemented at the earliest so that irrigation benefits can be reaped. Views of public can be summarized as below:

- Due to shortage of water in the region, there is a problem of irrigation for agriculture. Hence, proposed scheme should be implemented at a fast pace.
- Due to proposed scheme, there would be economical self-independence of farmers and consumption of electricity and diesel shall come down.
- Proposed scheme will bring economic prosperity in the region. Economical self-independence shall bring development and increase in literacy rate.
- Under the proposed scheme, plantation should be taken up as per norms by environment department.

- 9. If the project involves diversion of forest land (i) extend of the forest land (ii) status of forest clearance.**

For construction of pump houses, and distribution chamber of the project, land of about 3.03 ha private shall be required. Permission for diversion of 0.97 ha of forest land has already been obtained for laying of raising main. Vide forest clearance letter reference no. 1388/off/B.L.I-3/2017 dt. 31/05/2017

- 10.If the project falls within 10 km of eco- sensitive area (i) Name of eco-sensitive area and distance from the project site, (ii) status of clearance from National Board for wild life.**

No

- 11. Waste Management (i) Water requirement, source, status of clearance (ii) Waste water quantity, treatment capacity, detail (iii) Recycling / reuse of treated water and disposal (iv) Solid Waste Management (v) Hazardous Waste Management**

Not applicable

- 12. Other details (i) Noise Modeling with noise control measures for airports (ii) Details of water bodies, impact on drainage if any (iii) Details of tree cutting (iv) Energy conservation measures with estimated saving (v) Green belt development (20 % of construction projects and 33 % for others) (vi) Parking requirement with provision made**

In a water resources project, air and noise pollution occurs mainly during project construction phase. During operation phase, no major impacts are envisaged. However it is clarified that since the project is Micro irrigation project mainly with underground pipeline therefore air and noise pollution will not have any impact.

Water conductor (pipeline) system shall be crossing several streams. Improved availability of irrigation in the area shall lead to reduced extraction of ground water for irrigation and domestic uses thus reversing ground water decline in the region. No adverse impact on downstream users is envisaged.

- 13. If the project involves foreshore facilities (i) Shoreline study (ii) Dredging details, disposal of dredge material (iii) Reclamation (iv) Cargo handling with dust control measures (v) Oil Spill Contingent Management Plan**

Not Applicable

- 14. If the project involves Marine disposal (i) NOC from PCB in case of marine disposal (ii) details of modeling study – details of outfall diffusers, number of dilution expected, distance at which the outlet will reach ambient parameters 9 (iii) location of intake / outfall. Quantity, (iv) detail of monitoring at outfall (v) Any other relevant information :**

Not Applicable

- 15. Other information (i) Investment/Cost of the project is Rs 515.10 crore. (ii) Employment potential During the construction of the project local villagers will get employment in different activities of the project. It will benefit 22000 ha. in Khargone district.**

**(iii) Benefits of the project 92 villages benefited by irrigate 22000 ha. Agricultural land.**

**16.Date of Ground water clearance:**

Not applicable

**17.Date of mine closure approval**

Not applicable

**18.Any river/Nallha flowing near or adjacent to the proposed mine. If yes, please give details.**

Not applicable

During presentation, it was observed that apprx. 0.970 ha forest area is involved in the project for which PP submitted that they have obtained the Forest Clearance from DFO, Khargone vide letter no. 4440 dated 24/07/2017. PP further submitted that being the area is less than 1.00 ha., DFO is empowered for diversion of forest land. PP also submitted that since no permanent land acquisitions is required thus no process of land acquisitions is initiated till date and further they were in impression that any action including land acquisition can only be initiated after EC is granted. However, they have carryout the primary survey of the area for temporary land acquisition. During evaluation of the project it was observed that a schedule I species “ Indian Peafowl” is reported in the EIA report for which PP submitted that during survey no such species was sighted by them but the same is reported in the official documents thus PP was advised to obtain approval of competent authority before execution of project if such species is seen/ observed in the project site. In the presentation lying of transmission line was proposed while during discussion, PP informed that poles will be laid down for transmission of power which needs PP’s clarification. After presentation, PP was asked to submit response on following:

1. Complete technical details of pumping stations (such as Main layout, pump capacity, head, storage capacity at the intermediate tank, head loss etc) should be provided.
2. In the presentation lying of transmission line was proposed while during discussion, PP informed that poles will be laid down for transmission of power. PP was asked to clarify this.
3. No digging should be carried out within the 15 meters of any structure (intended to 01 meter digging) for which a written commitment should be submitted by the PP.

4. There are some changes in the project details when compared with the TOR and EIA. PP submitted that at the time of TOR estimated details were provided and now in EIA they have submitted exact details for which PP was asked to submit a written confirmation of the statement.
  5. Response from PP to the queries raised during public hearing is not submitted by the PP and thus the same should be submitted.
  6. Disposal plan of waste oil generated from the DG sets should be provided.
  7. Primary survey of the area for temporary land acquisition with details of PEPS.
  8. Details of facilities to be provided to the workers with their budgetary provisions should also be submitted.
5. **Case No. - 5531/2017 Executive Engineer, Narmada Development Division No. 16, Kukshi, Distt. - Dhar, (M.P.) – 454331 Prior Environment Clearance for Alirajpur Lift Irrigation Scheme Near Roligaon Village, Tehsil - Sondwa, Distt.- Alirajpur, (M.P.) EIA Consultant: R. S. Envirolink Technologies Pvt. Ltd., Gurgaon.**

This is a River Valley projects involving < 10,000 ha. of culturable command area and denies the general conditions falls under category "B" and have been mentioned at SN. 1(c) column B of Schedule of EIA Notification, hence such projects are required to obtain prior EC from the SEIAA. The application for EC was forwarded by SEIAA to SEAC for scoping so as to determine TOR to carry out EIA and prepare EMP.

## INTRODUCTION

Madhya Pradesh (MP) is the State of India having a geographical area of 30.8 million hectares. The state is predominantly agriculture-oriented as 80% of its population is dependent on agriculture. The net sown area of the state is 14.96 million hectares.

This Project titled “EXECUTION OF ALIRAJPUR LIFT SCHEME” consists of supplying of water from Hathani River and delivering at farmer’s field with a duty of 0.36 lit/sec/ha through the various junctions/off takes from Gravity Main to Micro-irrigation up to 2.5 hectare chak with residual head of 20 meters at 2.5 hectare chak for 35000 hectare out of gross command area 64500 hectare without exceeding a total power requirement of 35.50 MW in the whole system.

## **OBJECTIVE OF THE PROJECT**

The objective of the project is to increase production of agriculture and improve the living standard of farmers in the project area by constructing pressurized irrigation system utilizing limited water resources efficiently and ensure equitable assured water supply to the designed command area.

## **SCOPE OF WORK**

Execution of Alirajpur Lift Irrigation scheme in Alirajpur District of Madhya Pradesh comprising of: -

1. Lifting of 12.6 cumec water from Hathani River (Tributary of Narmada) to supply for irrigation in 35000 Ha CCA.
2. Construction of Pumping Stations with Pumps including substation, transformer and all electrical works and Control Room with SCADA.
3. Construction of Delivery Chamber.
4. Erection of Electrical Line of suitable voltage and power as may be required.
5. Construction of underground piped rising mains and disnet for Micro irrigation up to 2.5 ha. chak including all inline structures & other miscellaneous works.
6. Permanent land requirement shall be 12 Ha (3.5 Ha Govt./Private land; 8.5 Ha forest land) and temporary land requirement for pipe laying shall be around 80 Ha.
7. Total power requirement for the entire project shall not exceed 35.5 MW in 15 years lifetime.

In a Gross command area of approximately 64500 Ha, a total of 35000 Ha is to be irrigated in Alirajpur district. The command map has forests, ponds, roads, village settlements, nalla /Railway /Highway crossings, cultivable lands and non-cultivable lands as total GCA.

## SYSTEM DESCRIPTION

The aim of project is to irrigate 35000 Ha of land (CCA) within 64500 Ha GCA with duty Head of 0.36lps/Ha. A total of 12.6 Cumec of water is to be drawn from Hathani River at minimum lifting level of 110m and distributed to Command Area through delivery chamber.

Three stages of pumping are considered for conveying water from river to Delivery Chamber. Intake pumping station (PH-1) at lifting point, second pumping station (PH-2) & third pumping station cum delivery chamber (PH-3) have been considered based on topography of land.

## PUMPING SYSTEM

To irrigate the command area of higher elevations, a total of three pumping stations are proposed at the following locations:

### 1. Pump House-1 (Located near Hathani River)

Pump House-1 is located near Hathani River at 2440101.3810N and 443100.2488E receives water from Hathani River through intake approach channel. The pump house comprises of 8 Nos. of VT pumps (Six working and Two standby), each with a capacity of 7560 m<sup>3</sup>/hour (total capacity: 12.6 m<sup>3</sup>/s) and Head 130m. Since the river water level varies from 110 m to 138.68 m, the pump is designed to lift the water throughout the year from all level ranging from 110 m to 138.68 m by providing VFD (Variable Frequency Drive) for the Motor.

In between pump house-1 and pump house-2, 1.3cumecs of water is drawn from transmission pipeline main to the delivery chamber-1, which is located at 440901.0904E & 2444618.6899N. The transmission pipeline length to DC-1 is 1.5km (approximately) which is laid underground up to delivery chamber-1 and above ground in forest area.

From the pumping station-1 transmission main conveying 12.6 cumecs for first 3.8km and 11.3 cumecs for next 5.8km will be laid underground upto Pump house-2 and above ground in forest area. Electrical room, switch yard, control room and other amenities are considered in the pump house as per relevant standards. Necessary regulating structures have been considered at approach channel of intake pumping station.

**2. Pump House-2**

Pump House-2 is located at 2449532.00N & 442203.00E and receives water via MS transmission main from Pump House-1. The pump house comprises of 8 Nos. of VT pumps (six working and Two standby), of which four pumps (three working and one stand by) used to pump water to pump house-3 each with capacity of 6960m<sup>3</sup>/hr (total capacity: 5.8 cumecs and Head 86 m). and the remaining four pumps (three working and one stand by) used to pump water from pump house-2 to the delivery chamber-2 (DC-2) each with capacity of 6600m<sup>3</sup>/hr, at 5.5 cumecs with total head of 79m. DC-2 is located at 442776.00E & 2451845.00N. From the pumping station transmission main conveying 5.8 cumecs will be laid underground upto Pump House -3 and above ground in forest area. Another transmission pipe line conveying 5.5 cumecs will be laid underground upto discharge chamber-2 & above ground in forest area.

**3. Pump House-3**

Pump House-3 is located at 2458687.00N & 438031.00E and receives water via MS transmission main from Pump House-2. The pump house comprises of 4 Nos. of VT pumps (Three working and one standby), each with a capacity of 6360m<sup>3</sup>/hour (total capacity: 5.3 m<sup>3</sup>/s) and Head 54 m. From the pumping station transmission pipe line conveying 5.3 cumecs will be laid underground up to Delivery Chamber-3 and above ground in forest area.

All pumping stations are considered with Minimum of 25% standby pumps.

S.No	Pumping Stations	Location	Pump Flow (m <sup>3</sup> /hr)	Head (m)	Lifting Level (m)	Delivery Level (m)
1	Pump House-1	Near Hathani River	7560	130	110	230
2	Pump House-2	Near Walpur Village	6600	79	230	300

3	Pump House-3	Near Kanpur Village	6360	54	300	350
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### TRANSMISSION MAIN

MS/DI Rising mains diameter & thickness has been considered as per relevant Standards and tabulated below:

Description	Location	Flow (m <sup>3</sup> /Sec)	Diameter (m)	Length (Km)	Thickness (mm)
Rising Main-1	PH-1 to Tapping Junction to DC-1	12.6	2.77	3.8	16
Rising Main-2	DC-1 Tapping Junction to PH-2	11.3	2.66	5.8	15
Rising Main-3	Tapping Junction to DC-1	1.3	1.00	1.5	8
Rising Main-4	PH-2 to PH-3	5.8	1.9	10.7	10
Rising main-5	PH-3 to DC-3	5.3	1.8	1.8	10
Rising main-6	PH-2 to DC-2	5.5	1.85	2.3	10

The complete transmission main shall be laid underground with minimum 1.0 m cover of backfill material above the pipeline. In forest areas, rising main shall be laid above ground. MS pipelines with Internal and external coatings have been considered.

Major Roads and railway crossing shall be crossed as per the norms of concerned dept. and after getting approval from concerned authority. Sectionalizing valve, scour and air valve shall be provided in the Rising mains wherever required.

data from March, Earlier this case was presented by the PP and their consultant in 289<sup>th</sup> SEAC Meeting dated 28/04/2017 wherein during presentation PP informed

that they have started collecting the baseline 2017. After deliberations committee decided to recommend standard TOR prescribed by the MoEF&CC for conducting the EIA study along with following additional TORs:

1. A detail of the source (quantum of water available, other potential users etc.) from where water is envisaged to be lifted shall be furnished.
2. Places where diversions of nallah/natural drains are proposed should be detailed out in the EIA report.
3. Sedimentation study in the pipe lines including the deposition, scaling etc should be furnished with EIA report along with the methodology proposed for its cleaning.
4. Economic viability and cost benefit analysis should be conducted and presented in the EIA report should also take into consideration environmental/ecological cost-benefits.
5. How micro-irrigation technology shall be implemented in this project after the completion of the project should be discussed in the EIA report.
6. The study area for the EIA shall include 2.5 Km area on either sides of the pipeline.
7. Management plan for dug-out material generated during laying / construction of the pipe line / structures.
8. An inventory of various features such as sensitive area, fragile areas, mining / industrial areas, habitation, water-bodies, major roads, etc. shall be prepared and furnished with EIA.
9. An inventory of flora & fauna based on actual ground survey shall be presented.
10. As forest land is involved in the project FC stage to be clarified with supporting documents.
11. PP should also explore the possibility of reducing proposed power requirement and methods proposed for dealing with back pressure in case of electricity failure should be studied in the EIA report.
12. EIA report should cover impact of anticipated change in cropping pattern and associated activities like horticulture, animal husbandry etc.
13. Approx 8.05 ha forest area is involved in the project for which FC clearance should be obtained and status of the same be annexed with the EIA report.
14. PP should carry out the public hearing of the site as per the procedure laid down in the EIA Notification, 2006.

PP has submitted the EIA report vide letter no. 17/10/17 which was forwarded by SEIAA vide letter no. 1080 dated 26/10/2017.

The case was presented by the PP and their consultant wherein following details as executive summary were submitted by PP:

**1. Name of the project & its location:**

**Alirajpur Lift Irrigation Scheme.**

The project area lies in Alirajpur District. The supply source Hathni river near Jhandana village of Alirajpur District and command area lies in Alirajpur, Sondwa, Jobat & Katthiwada tehsils of Alirajpur district.

**2. Name of the Company, Address Tele No. & E-mail :**

Name of company: GOVERNMENT OF MADHYA PRADESH

Address- Executive Engineer,

Narmada Valley Development Department Division 16, Kukshi, Dist-Dhar, Pin : 454331

E-mail- eendd16kukshi@gmail.com

Mobile no .- 7987749769 , Tele No.- 07297-242307

**3. Latitude and Longitude of the project.**

Between Longitude: 74<sup>0</sup> 16' to 74<sup>0</sup> 37' and Latitude: 22<sup>0</sup> 3.5' to 22<sup>0</sup> 26'

**4. If a Joint venture, the names & addresses of the JV partners including their share.**

- Not Applicable

**5. Project brief: nature of proposal (new/expansion,) total area- land use, project components, connectivity to the site etc.**

The project is envisaged as micro lift irrigation scheme by lifting 12.6 cumec of water from Hathni river to provide irrigation in an area of 35000 Ha in Alirajpur dist. It's a new project. Major components of the scheme area as follows:

- Construction of 3 Nos pump houses.
- Construction of 3 Nos Distribution chambers
- Rising Main Pipe Line.
- Distribution network pipe line.
- Electrical Transmission line

<b>Access to the Project</b>	
Nearest Airport	Devi Ahilya Airport, Indore (M.P.)

Nearest Rail Head	Chhota Udaipur Gujarat; 75 km from Lifting Point
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**Total Area:****Forest Land:**

Forest land requirement for the entire scheme has been worked as 14.958 ha. Case for diversion of forest land has already been submitted with reference no. is FP/MP/IRRIG/29973/2017.

**Government/Private Land**

Project would require only 3.5ha of government/private land permanently for pump houses etc and shall be purchased by mutual agreement.

**Temporary Land for Laying of Pipeline**

The pipe shall be laid 1.00 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. Wherever, the pipeline will pass through private land, temporary land acquisition will be done as per Bhumigat Pipeline Cable Avam Duct Adhinyam, 2012/Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation & Resettlement Act 2013. The temporary land requirement is approximately 80 ha.

**6. Cost of the project :- Rs833.35 Cr**

**7. Whether the project is in Critically Polluted area. –No**

**8. If the project is for EC under EIA Notification, 2006 a) For the first time appraisal by EAC (i) Date of TOR: (ii) Date of Public Hearing, location (iii) Major issues raised during PH and response of PP b) Second appraisal (i) Date of first /earlier appraisal (ii) Details of the information sought by the EAC with the response of the PP.**

For the project, the Form-1 was submitted online March 14, 2017. Scoping clearance for the project was recommended by SEAC during its meeting held on April 28, 2017.

Public Hearing for Alirajpur LIS scheme was conducted by Madhya Pradesh State Pollution Control Board (MPSPCB) on 29<sup>th</sup> July 2017 at MukhyaMantriGraminHaat Bazar Complex, Village Walpur, tehsil Sondwa, District Alirajpur.

During the public hearing, public in one voice asserted that project should implemented at the earliest so that irrigation benefits can be reaped. Views of public can be summarized as below:

- Due to shortage of water in the region, there is a problem of irrigation for agriculture. Hence, proposed scheme should be implemented at a fast pace.
- Due to proposed scheme, there would be economical self-independence of farmers and consumption of electricity and diesel shall come down.
- Proposed scheme will bring economic prosperity in the region. Economical self-independence shall bring development and increase in literacy rate.
- Under the proposed scheme, plantation should be taken up as per norms by environment department.

**9. If the project involves diversion of forest land (i) extend of the forest land (ii) status of forest clearance.**

14.958 ha of forest land is required for the project. Case for diversion of forest land has already been uploaded and registered with reference no. FP/MP/IRRIG/29973/2017. The Form A, Part I is already examined and approved by Nodal officer.

**10. If the project falls within 10 km of eco- sensitive area (i) Name of eco-sensitive area and distance from the project site, (ii) status of clearance from National Board for wild life.**

No

**11. Waste Management (i) Water requirement, source, status of clearance (ii) Waste water quantity, treatment capacity, detail (iii) Recycling / reuse of treated water and disposal (iv) Solid Waste Management (v) Hazardous Waste Management**

Not Applicable

**12. Other details (i) Noise Modelling with noise control measures for airports (ii) Details of water bodies, impact on drainage if any (iii) Details of tree cutting (iv) Energy conservation measures with estimated saving (v) Green belt development (20 % of construction projects and 33 % for others) (vi) Parking requirement with provision made**

In a water resource project, air and noise pollution occurs mainly during project construction phase. During operation phase, no major impacts are envisaged.

However it is clarified that since the project is a Lift Irrigation Scheme mainly with underground pipeline air & noise pollution will not have any impact.

Water conductor system (Pipeline) shall be crossing several streams. Improved availability of irrigation in the area shall lead to reduced extraction of ground water for irrigation and domestic uses thus reversing ground water decline in the region. No adverse impact on downstream users is envisaged.

**13. If the project involves foreshore facilities (i) Shoreline study (ii) Dredging details, disposal of dredge material (iii) Reclamation (iv) Cargo handling with dust control measures (v) Oil Spill Contingent Management Plan**

Not Applicable

**14. If the project involves Marine disposal (i) NOC from PCB in case of marine disposal (ii) details of modeling study – details of outfall diffusers, number of dilution expected, distance at which the outlet will reach ambient parameters 9 (iii) location of intake / outfall. Quantity, (iv) detail of monitoring at outfall (v) Any other relevant information :**

Not Applicable

**15. Other information (i) Investment/Cost of the project is Rs. in crore). (ii) Employment potential (iii) Benefits of the project**

- i. The cost of the project is 833.35 Crore.
- ii. During the construction of the project local villagers will get employment in different activities of the project .
- iii. It will benefit 35000 Ha in tribal area of Alirajpur Districts

**16. Date of Ground water clearance:**

Not Applicable

**17. Date of mine closure approval.**

Not Applicable

**18. Any river/Nallha flowing near or adjacent to the proposed mine. If yes, please give details.**

Not Applicable

During presentation, it was observed that approx. 14.958 ha forest area is involved in the project for which PP submitted that they have applied for the FC clearance and submitted the copy of online acceptance letter. PP was asked to submit complete set of the application made for the FC clearance. It was also observed that at the time of TOR presentation, PP informed that only 8.05 ha forest area is involved while in EIA report 14.958 ha area is reported as forest area for which PP was asked to submit clarification. PP also submitted that since no permanent land acquisitions is required no process of land acquisitions is initiated till date and further they were in impression that any action including land acquisition can only be initiated after EC is granted. However, they have carryout the primary survey of the area for temporary land acquisition. After presentation, PP was asked to submit response on following:

1. Copy of complete set of the application made for the FC clearance.
  2. At the time of TOR presentation, PP informed that only 8.05 ha forest area is involved in the project while in EIA report, 14.958 ha area is reported as forest area for which PP was asked to submit clarification.
  3. No digging should be carried out within the 15 meters of any structure (intended to 01 meter digging) for which a written commitment should be submitted by the PP.
  4. Disposal plan of waste oil generated from the DG sets should be provided.
  5. Primary survey of the area for temporary land acquisition with details of PEPS.
  6. Details of facilities to be provided to the workers with their budgetary provisions should also be submitted.
  7. In awareness programmes, education for tribal's should be included.
6. **Case No. - 5373/2016 Executive Engineer, M.P. Audyogik Kendra Vikas Nigam (Indore) Ltd, Ist & IInd Floor, 3/54, Press Complex, AB Road, Indore, (M.P.) – 452011 New Construction Projects and Industrial Estate Meghnagar Industries Area, Meghnagar Town, Tehsil - Meghnagar, Distt. - Jhabua, (M.P.) Total Plot Area - 223.75 Ha.(2237500.00 Sqm.), Net Planing Area - 2237500.00 Sq.m, Total Industrial Plot Area – 1329902.00 Sq.m, Amenities Area – 73136.00 Sq.m, (Cat. -7(c) Project). EIA Consultant: M/s SMS Envirocare Ltd., PUNE.**

The project belongs to Meghnagar industrial area and as per the Schedule attached to the EIA Notification 2006 and its amendment in 2009 the project is covered under Project or Serial No. 7(c) “**Industrial estates/ parks/ complexes/ areas, export, processing Zones, (EPZs), Special, Economic Zones, (SEZs), Biotech, Parks, Leather, Complexes**” requiring prior Environmental Clearance (EC). It is categorized as Category B (area <500 ha), and shall be apprized by the State

Environment Impact Assessment Authority (SEIAA), Madhya Pradesh. Application was forwarded by SEIAA to SEAC for appraisal and necessary recommendations.

S.NO.	DETAILS	INFORMATION
1	Name of the Project	Meghnagar Industrial Area
2	Location	Tehsil: Meghnagar District: Jhabua State: Madhya Pradesh
3	Regulatory Framework	Whereas the industrial area was developed before the EIA Notification, 2006, hence the environmental clearance was not required. State Environment Impact Assessment Authority (SEIAA), Madhya Pradesh in its 250 <sup>th</sup> meeting dated 15 <sup>th</sup> October, 2015 has directed to conduct the Environment Impact Assessment study in the entire Meghnagar Industrial area. The recommendation was accorded to MPAKVN against the continuous agitation of local people residing near Meghnagar over the issue of industrial pollution from Meghnagar Industrial area.
4	Topo sheet No.	46J/5, 46J/9, 46I/8, 46I/12
5	Capacity	Total Plot Area: 223.75 hectare for Industrial Development
6	Name of Project Proponent	<b>M.P. Audyogik Kendra Vikas Nigam (Indore) Ltd.</b> (A Govt. of M.P. undertaking –Subsidiary of MPTRIFAC)
7	Area Requirement	Total Plot Area: 223.75 hectare for Industrial Development
8	Water Requirement	For Industrial Area: 1.2 MLD For Meghnagar Villager: 0.5 MLD Stop Dam: 3.6 MLD Capacity
9	Power Requirement	Total Power Requirement: 6MW Source: MP PaschimKhetraVidhyutVitran Co. Ltd.
11	Project Cost	78.20 crore

The case was presented by the PP and their consultant in 282<sup>nd</sup> SEAC meeting dated: 10/10/2016 wherein committee decided to recommend standard TOR prescribed by the MoEF&CC for conducting the EIA along with following additional TOR's:

- a. Complete inventory of existing industries w.r.t. their type, capacity, products, existing pollution control facilities and details of hazardous wastes generated and their disposal practices be provided with the EIA report. It should also be specified that how many of these industries falls under the gambit of EIA Notification, 2006 and have obtained EC.
- b. Detailed list of industries (along with list of products) for which MP AKVN, Jhabua has so far allotted the land.
- c. PP should carry out the public hearing of the site as per the procedure laid down in the EIA Notification, 2006.
- d. PP should explore the possibility of providing common infrastructure for waste treatment and its disposal facility and plan should be discussed in the EIA report.
- e. Detailed survey report of contaminated site located in the industrial area and its decontamination plan should be discussed in the EIA report.
- f. Storm water management plan of the entire industrial area of Jhabua.

PP vide letter no. AKVN/IND/TS/2016/16076 dated 26/12/2016 has requested SEIAA,MP for exemption from public hearing as they have taken up rapid EIA as per the policy decision of 250<sup>th</sup> SEIAA meeting dated 14/10/2015. SEIAA,MP vide letter no. 4604/SEIAA/2016 dated 02/12/2016 has accepted the request of PP stating that "since the said project is not a case of environmental clearance therefore public hearing is not required as per EIA notification, 2006".

PP has submitted the EIA Report vide letter no. AKVN/IND/TECH/2017-18 dated 07/06/2017 which was forwarded by SEIAA vide letter no. 733 dated 15/06/17.

The case was presented by the PP and their consultant in the 294<sup>th</sup> SEAC meeting dated 23/06/2017 wherein PP submitted that this IA was developed in the year 1984 and the project cost was 78.20 cr. Following submissions were made by the PP:

**ENVIRONMENTAL SITTING**

SR. NO.	PARTICULAR	DESCRIPTION
1.	Geographical coordinates	Latitude: 22°54'46.21"N Longitude: 74°33'19.32"E Elevation: 329 MSL
2.	Topo-sheet No.	46J/5, 46J/9, 46I/8, 46I/12 of SOI
3.	Nearest railway station	Meghnagar railway Station at 1.5 km in SW
4.	Nearest airport	Devi Ahilya Bai Holkar Airport, Indore at 165 km in ENE direction
5.	Nearest National Highway	NH-59 (Old) at 10.45 Km in S direction
6.	Nearest town	Meghnagar at 2.0 km in SW direction
7.	District Head Quarter	Jhabua City at 15 km S direction
8.	Nearest water bodies	Anas River 6.0 km in S direction
9.	Nearest Inter State Boundaries	Madhya Pradesh-Gujarat: 8.5 km in W direction
10.	Eco Sensitive Zone (National Park, Wildlife Sanctuary, Biosphere Reserve, Wild Life Corridors etc.)	Not within 10 km radius from the project boundary
11.	Historical & Archeological Important Place, Defense Establishment	

**LAND USE**

Type	Area in sq. m	Area in Ha
Total Area of MIA	22,37,500	223.75
Plots covered by running Industries	5,84,197	58.41
Plots covered by Under Construction Industries	83,564	8.35
Plots covered by Closed Industries	1,61,824	16.18
Area under Vacant Plots	3,94,545	39.45
Total Area Plotting	12,24,130	122.42
Remaining land under MIA	10,13,300	101.33

**TYPE OF INDUSTRIES**

Type of Industries	Running	Proposed
Chemicals Industries	22	5
Food Industries	17	3
Engineering Industries	17	4
Minerals Industries	24	3
Other Industries	13	2
Total	93	17

**WATER REQUIREMENT**

Particular	Details	Source	Remark
Water	Total: 1.7 MLD Industrial Use: 1.2 MLD Nearby Village Use: 0.5 MLD	Stop Dam already Constructed on Anas River. Pump house and Pipeline system installed to transfer water from river to MIA.	Water Treatment Plant (WTP) of 3.6 MLD provided for treatment of water before supply

**POWER REQUIREMENT**

Particular	Details	Source	Remark
Electricity/Power	Total: 6 MW	MP Paschim Kshetra Vidyut Vitran Co. Ltd. (MPPKVVCL )	A sub-station of 64000 Kva has already installed by MPPKVVCL for proper supply of Electricity

After presentation, PP was asked to submit response on following:

1. As per TOR suggested by the committee PP was asked to provide complete inventory of existing industries w.r.t. their type, capacity, products, existing pollution control facilities and details of hazardous wastes generated and their disposal practices be provided with the EIA report. It should also be specified that how many of these industries falls under the gambit of EIA Notification, 2006 and have obtained EC. However, PP has not provided the complete inventory and critical information related to the problem such as existing pollution control facilities and details of hazardous wastes generated and their disposal practices in the existing industries and details of industries falling under the gambit of EIA Notification, 2006 and have obtained EC is not submitted with the EIA report by the PP.
2. As per TOR suggested by the committee PP was asked to provide detailed survey report of contaminated site located in the industrial area and its decontamination plan in the EIA report which is also not discussed in the EIA report.
3. In the proposed EMP, rain water harvesting is suggested for the individual industries. Thus considering the current scenario of the Meghnagar IA, PP should re-address this issue.
4. In the Environmental Impact chapter, following subjective statements are made by the PP:
  - ✓ Air Pollution controlling equipment are not properly working in many of industries.
  - ✓ Contaminated GW is the source of Soil Pollution.

- ✓ Ambient Air Quality at closed to the industries are not matching with norms.
- ✓ Regular Air quality & Stacks monitoring are not being conducted properly by industries.
- ✓ Transportation of Raw material in open vehicles is one of the main issues of air pollution.
- ✓ Out of 26 industries, total 10 industries are providing partial treatment.
- ✓ Major issues of water pollution is discharge of untreated/partial treated water to open drain which mix with storm water drain causing ground water & surface water pollution.
- ✓ Open dumping of industrial waste is also identified in MIA.

Committee suggested that being the EIA of the Meghnagar IA, PP should have submitted the in-depth analysis on above issues by providing the name and location of industries where APCD are not working, stack monitoring not performed, providing partial treatment to the waste and discharging untreated waste in the drains, details of area where open dumping of industrial waste is practiced.

5. Complete green belt plan of the Meghnagar IA with proposal for dense peripheral plantation.

PP vide letter dated 11/08/2017 has submitted the response to the above queries and thus the case was placed in the agenda for appraisal.

The query reply presentation was made by the PP and their consultant wherein PP informed that the main issue in the case was indiscriminate disposal of waste on plot no 193 having total area 4047 sq. meter which was contaminated by the dumping of hazardous waste and the same was percolated contaminating the water. PP further submitted that the waste water was treated in the MEE of other industry (M/s Trent Chemicals) and contaminated soil was disposed off in the CTSDF, Pithampur, Dhar. PP further submitted that a thick green belt is proposed around this plot and regular monitoring and maintenance will be provided by them. As per the proposal submitted in the EIA report, committee also recommends that a common effluent treatment plant and waste treatment facility with MEE and ATFD

should be developed in the Meghnagar Industrial Area to facilitate the industries and also to avoid such situation of indiscriminate waste disposal in the future. The other submission made by the PP were found satisfactory and acceptable to the committee and committee recommends that the EIA report may be sent to SEIAA for onward necessary action as per their direction issued vide letter no. 8173 dated 26/11/2015.

**(Mohd. Akram Khan)**  
**Member**

**(Dr. A.K. Sharma)**  
**Member**

**(R. Maheshwari)**  
**Member**

**(Dr. Sonal Mehta)**  
**Member**

**(Prashant Shrivastava)**  
**Member**

**(Dr. J. P. Shukla)**  
**Member**

**(Mohd. Kasam Khan)**  
**Chairman**