



## EXECUTIVE SUMMARY

### A. BRIEF DESCRIPTION PROJECT

Sr. No.	PARTICULARS	DETAILS		
<b>A</b>	<b>PREAMBLE</b>			
1.	Project Name	Chichghat Lift Irrigation Scheme		
2.	Project Proponent	Vidarbha Irrigation Development Corporation, Nagpur (Command Area Development Authority, Nagpur Irrigation Project Division, Nagpur, Water Resource Department, Government of Maharashtra)		
3.	Screening Category	Item 1 (C) in EIA Notification, 14 <sup>th</sup> September 2006		
4.	Location			
	Village/Area	Near Village Sawangi		
	Taluka	Kuhi		
	District	Nagpur		
	State	Maharashtra		
	Topo sheet Number	550/8 & 550/12 of SOI		
	Geographical	<b>Particular</b>	<b>Latitude</b>	<b>Longitude</b>
	Coordinate	Pump house	21° 5'37.42"N	79°28'6.94"E
	Elevation	249 MSL		
<b>B</b>	<b>SALIENT FEATURES OF THE PROJECT</b>			
5	River	Kanhan		
6	Tributary	Kanhan		
7	Sub-basin	Wainganga		
8	River Basin	Godavari		
9	Type of project	Lift Irrigation		
10	Gross Command Area (GCA)	4731 ha		
11	Culturable Command Area (CCA)	<b>4495 ha</b>		
12	Irrigable Command Area (ICA)	3821 ha		



**PROPOSED CHICHGHAT LIFT IRRIGATION SCHEME AT TALUKA KUHI, DISTRICT NAGPUR  
BY IRRIGATION PROJECT, NAGPUR DIVISION, WATER RESOURCE DEPARTMENT,  
GOVERNMENT OF MAHARASHTRA**

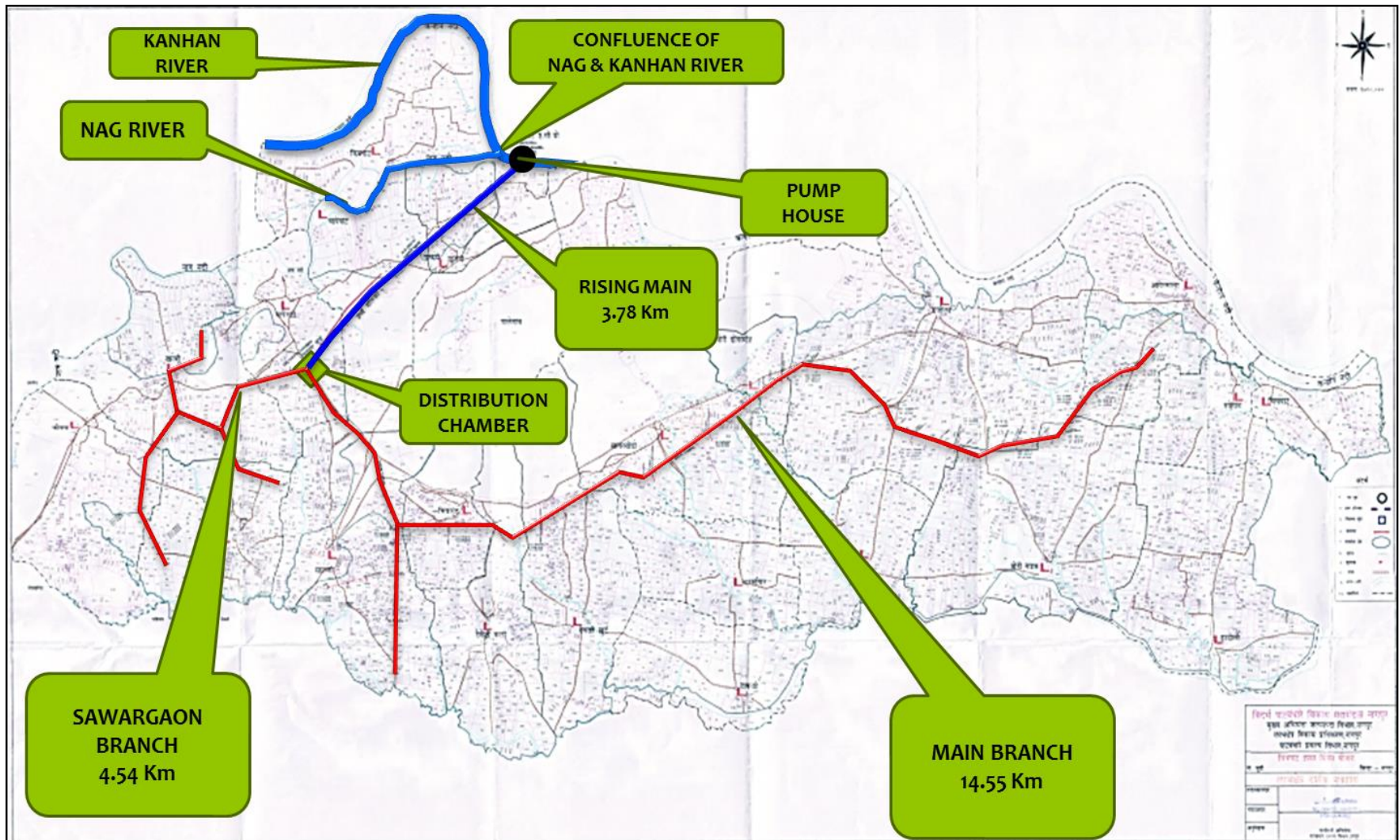
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13	Crop Ares	5846 ha
14	Tehsil Benefited	Kuhi
<b>C</b>	<b>ENVIRONMENTAL SETTINGS OF THE AREA</b>	
15	Highway	NH-6 at 6.74 Km at N Direction
	Nearest Railway Station	Nagpur Railway Station at 40 km at W Direction
	Nearest Air Port	Dr. Babasaheb Ambedkar International Airport, Nagpur 43.0 Km in W Direction
	Nearest Town	Khamptee Town: 31 Km in W Direction
	Nearest Water Bodies	Project site itself located on Kanhan River just 300 m below from the confluence point of Kanhan River and Nag River
	Eco Sensitive Zone (National Park, Wildlife Sanctuary, Biosphere Reserve, Wild Life Corridors etc.)	Not within 10 km radius study area
	Historical & Archeological Important Place, Defense Establishment	Not within 10 km radius study area Bhandara Ordnance Factory is located at 7.82 Km in E direction



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View of Chichghat Lift Irrigation Scheme



## B. BASELINE STATUS OF ENVIRONMENT

Parameter	Location	Results	Standards		
Ambient Air Quality	8 Location	PM2.5 : 11.5-14.7 µg/m <sup>3</sup> PM10: 42.1- 51.4 µg/m <sup>3</sup> SO <sub>x</sub> : 14.5-15.8 µg/m <sup>3</sup> NO <sub>x</sub> : 13.2- 15.8 µg/m <sup>3</sup>	PM2.5 : 60 µg/m <sup>3</sup> PM10 : 100 µg/m <sup>3</sup> SO <sub>x</sub> : 80 µg/m <sup>3</sup> NO <sub>x</sub> : 80 µg/m <sup>3</sup>		
Noise Level	8 Location	Day: 41.10- 49.28 dB(A) Night: 22.75-34.05 dB(A)	Industrial	Day: 75 dB(A)	Night: 70 dB(A)
			Residential	Day: 55 dB(A)	Night: 45 dB(A)
Water Quality	Ground Water: 8 Location	pH : 7.0 to 7.85 TDS : 378.0 to 941.0 mg/l TH : 160.0 to 500 mg/l.	6.5 to 8.5 2000 mg/l		
	Surface Water: 4 Location (Two samples from 1000 m distance)	pH : 7.61 to 8.01 TDS : 388.0 to 530.0 mg/l BOD: 224.0 to 660.0 mg/l			
Soil Quality	8 Location	pH: 6.3 to 7.93 Organic Matter: 0.4 % to 0.2 %. Total Nitrogen: 216 to 348 kg/Ha Potassium: 13 to 190 Kg/Ha. Phosphorus: 42.2 to 169 Kg/Ha	-	-	-

## C. ENVIRONMENTAL MANAGEMENT PLAN

### Common Area Development Plan

Water Users Association will be formed in the entire command area. The objective of farmer's organization shall promote & secure distribution of water among its users, adequate maintenance of the irrigation system, efficient & economical utilization of water to enhance the agriculture production. Technical training, Engineering training, Agronomical training, Mechanical training, awareness towards environment and conservation of water will be provided to the water users in the command area.

### Solid Waste & Sanitation Management Plan

Various construction and associated activities in which number of permanent and temporary work force will required to be accommodated; so that good hygienic condition, sanitation facilities and providing safe drinking water are most important factor and should be provided



as and when required. For the same purpose, Public Health & Sanitation Management Plan has been prepared containing Solid Waste Management, Sanitation Management and Supply of drinking & other water.

### **Greenbelt Development Plan**

Green belt will be developed along plot boundary of Pump house for width of 2-3 meters using varieties of plant species suitable to local environment. Adequate area has been secured for Green Belt Development. Species type will be selected based on soil characteristics, and other related aspects to mitigate pollution effects due to noise, dust etc. Removal and replantation of plants shall be implemented scientifically. Major advantage of green belt is development of buffer zone and visual barrier for surrounding locality.

### **Fuel Management Plan**

To avoid labour from adopting immoral methods of collecting fire wood from the adjacent areas by damaging the green cover, the project authorities/contractor will confirm supply of free fuel to the temporary labour camps. Fire wood may be arranged by the construction agencies/ executants from the nearest fire wood depot maintained by the forest corporation. Kerosene (Alternative fuel) may be supplied to the labour for cooking. The project authorities will liaison with supply and co-operative department and arrange required quantities of kerosene as well as other control commodities. Lightning facilities through temporary electric supply generated from DG sets to every camp area to be provided.

### **Health Management Plan**

A sum of Rs. 10.0 lakhs are estimated for health management plan. VIDC are suggested to incorporate this segment in the tender document so the selected contractor has to fulfill the requirement of the same.

### **Biodiversity Management Plan**

There is no Reserved forest, National Park, Wild Life Sanctuary or any other eco-sensitive zone are present around 10 km radius study area from the project site on in CCA area. No endangered species listed in the IUCN Red data list is found or spotted in the proposed project site. No major tree felling shall be done as area does not have major tree cover. Total 49.26 Ha of land will be required to development of the proposed Lift Irrigation Scheme. Out of total





land, 43.26 Ha of Private land and 5.99 Ha of forest land for which in principal approval of from Forest Department, Government of Maharashtra has already been secured.

### **Fisheries Development Plan**

Approx. 10.0 lakhs rupees has been estimated for development/implementation of Fisheries management plan including preparation of Hatchery/ fish ponds, procurement of seeds etc. Recurring cost of the same may be additional including training, maintenance, payment of workers, chemical requirement, travel and miscellaneous cost etc.

### **Pollution Management Plan & Environmental Monitoring Plan**

Pollution management plan has been prepared including management of Air Pollution, Water pollution, solid & hazardous waste management, noise pollution management as well as environmental monitoring program. Total 15 lakhs has been identified for both plans.

### **Ground Water Management Plan**

Due to the provision of irrigation facilities to the formers; the ground water withdrawal is likely to be decrease as much area will be put to use for cultivation. While implementing the proposed project and supply of water to agriculture land; huge amount of water will be percolated into the ground level which ultimately improve the ground water table.

### **Cost of Environmental Management Plan**

The estimated capital and recurring cost of Environmental Management Plan will be around Rs 80.00 Lakhs. Details of budgetary allocation for EMP are given below:

S. No.	Item	Cost (Rs. Lakhs) for LIS
1	Biodiversity & Wildlife Management Plan	5.0
2	Green Belt Development Plan	20.0
3	Solid Waste & Sanitation Management Plan	20.0
4	Fisheries Management Plan	10.0
5	Health Management Plan	10.0
6	Pollution Management Plan	10.0
7	Environmental Monitoring Plan	5.0
<b>Grand Total</b>		<b>80.0</b>