



PROJECT AT A GLANCE

The Government of Rajasthan through Public Health Engineering Department (PHED), Jaipur awarded the work of Chambal-Sawaimadhapur-Nadauti Water Supply Project to provide drinking water facility to 926 villages and 4 towns, Sawaimadhapur, Gangapur, Karauli and Todabhim. These districts are adversely placed as far as availability of potable drinking water is concerned due to high nitrates, chlorides and dissolved solid contents and is not fit for human consumption.

The project will cater to the full demand of drinking water of Sawaimadhapur & Karauli and half of the demand of other two towns. Remaining half of the demand will be met through existing local sources with the Chambal River as source of raw water. The Intake Well shall be at the deepest section in the River so as to have sufficient inflow during lean flow period.

Name of the Project	Chambal-Sawaimadhapur-Nadauti Water Supply Project
Client	Public Health Engineering Department (PHED), Jaipur
Contract Value	299.60 Crore
Scope of Work	<ul style="list-style-type: none"> • Construction of 146.75 MLD Water Treatment Plant • Construction of 17 Mtr dia Intake Pump House alongwith 800 Mtr Transmission Bridge at Chambal River • Construction of Pre-settling Tank of 27.50 ML capacity • Construction of Raw Water Pumping Station • Construction of Clear Water Pumping Station • Construction Clear Water Reservoirs having capacity 14000 Cum, 2510 Cum, 8010 Cum & 3610 Cum at different headworks • Supply, Laying, Jointing, Hydro Testing of 152 kms pipeline with 1000-1400 mm dia MS & PSC pipeline
Construction Period	3 Years
O&M Period	5 Years after commissioning

MAJOR COMPONENTS OF THIS PROJECT:

Transmission System :

- Intake works at Chambal River near Mandrayal
- The Transmission System from Intake at Chambal River near Mandrayal to water treatment plant at Km stone-4 on Mandrayal-Karauli Road
- Water treatment plant; pump house & 33/6.6 kV switchyard, Raw Water Reservoir, Clear Water Reservoir at Km. 4 on Mandarayal Karauli Road
- The 33 kV power transmission lines from 132 kV sub-stations of Rajasthan Vidyut Prasaran Nigam Ltd. (RVPNL)
- Pipe line system from Water treatment plant to Karauli
- Pipe line system from Karauli to Gangapur City
- Pumping Station & 11/0.415 kV Sub Station at Gangapur City

- Pipe line system from Gangapur City to Sawaiadhopur
- Clear Water Reservoir, Office, Residential & Store buildings, Campus development, Road & associated civil works etc. at Mandrayal, Km.4, Karauli, Gangapur City & Sawaimadhopur

Improvement of existing system at Sawaimadhopur

Transmission lines from off-take points

- Karauli to Hindauncity
- Kurgaon to Sapotara
- Gangapur city to Nadauti

Regional Schemes (cluster wise supply system)

Communication network

IEC activities

The tehsil wise & town wise requirement of water shall be as follows:

S. No.	Tehsil	No. of Villages	Population 2021	Population 2031	Demand 2031
Rural area					
1.	Sawaimadhopur	139	280817	359446	14.38
2.	Gangapur City	113	293616	375829	15.03
3.	Sapotara	137	255345	326841	13.07
4.	Mandarayal	37	88433	113194	4.53
5.	Karauli	100	243642	311836	12.47
6.	Hindaun	51	163760	209612	8.38
7.	Nadauti	59	151683	194154	7.77
8.	Bamanwas	104	203142	260022	10.40
9.	Toda Bhim	126	291019	372505	14.90
10.	Malarnadoongar	60	147118	188312	7.53
Total		926	2118575	2711751	108.46
Urban area					
1.	Sawaimadhopur	1 (100% demand)	247777	376620	37.67
2.	Karauli	1 (100% demand)	153039	232619	23.26
3.	Gangapur City	1 (50% demand)	243507	370131	18.51
4.	Toda Bhim	1 (50% demand)	48160	73204	3.66
Total			692483	1052574	83.10
Total (Rural+Urban)			2811058	3764325	191.56



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