

Notes on UGPL in Lower Indra Irrigation Project, Nuapada

Lower Indra Irrigation Project is located across river Indra, a tributary of river Tel in Mahanadi basin. The Dam has been constructed at D/S of confluence point of River Indra & River Sundar. The Project is situated near village Dargaon in Nuapada District of Odisha (KBK Region) & 17Km away from Khariar town. Two Main Canals Left & Right (partly lined), off- taking each on either side of river Indra, to irrigate an ayacut of 13191.00 ha. in Nuapada & 16709.00 ha. in Bolangir District. The total CCA of the project is 29,900 ha. with 130% Irrigation Intensity (Kharif 90% + Rabi 40%) with annual irrigation of 38,870 ha. The command Area of the Project spreads over 198 villages out of which 79nos. belongs to Nuapada & 119nos to Bolangir District.

The project was approved by the Planning Commission in the year 1998 with investment clearance during February, 1999 and taken up through AIBP since 1999-2000. The foundation stone for project was laid on dated 07.05.2000 & has been inaugurated on 10.03.2021 by Sj. Naveen Pattnaik, the Hon'ble Chief Minister of Odisha .

The Canal network for 13,892 ha and CAD & WM works for 29900ha has been taken up through Under Ground Pipe Line (UGPL) Gravity system. There is provision to irrigate 2,990H through micro irrigation (**Non-Paddy crops using drip & sprinkler**) to the uplands in command.

This hybrid Gravity flow UGPL System is implemented 1st time in Lower Indra Irrigation Project as a Pilot Project in the State.

The Progress of Main Components as on 31.03.2021 is as noted below:-

Component	achieved up to 31.03.2021	
1. Dam (Head Works):	3780m	- Completed
2. Spillway :	159 m	- Completed
3. Main & Branch Canal:		- Completed
4. Distribution System:		
(A) Open Channel System:	15918 ha.	- Completed
(B) UGPL System:	13982 ha.	- 95% Completed
5. CAD & WM (Entire under UGPL):	29900 ha	- 88% Completed

For want of irrigation facility, cotton, paddy, maize producing farmers and farm labourers along with their families are forced to migrate outside the state after the Khariff season. This project will boost to the onion, banana & other major horticultural crops of the region. It has potential to arrest distress migration increase firm productivity, augment income from agriculture and trigger agro-based industries in the region.

Now this project has become the life line of this locality.

Laying of GRP pipe



Sand bedding before GRP pipe laying



Hon'ble Chief Minister, Odisha, Dedicated the Project to the State



D/S view of Spillway




Testing of UGPL system



UGPL single PP valve






A photograph showing a lush green field with a water tap in the foreground. Two men are standing in the middle ground, looking towards the camera. The tap is a black pipe with two red-handled valves, and water is flowing from both. The background consists of a dense line of trees under a clear sky.


Latitude: 20.311146
Longitude: 82.685166
Elevation: 238.95±12 m
Accuracy: 25.6 m
Time: 09-10-2021 11:46
Note: 08 KPM1

Powered by NoteCam



Latitude: 20.313393
Longitude: 82.685588
Elevation: 245.73±9 m
Accuracy: 4.7 m
Time: 09-10-2021 12:16
Note: 08 KPM1

Powered by NoteCam



Latitude: 20.313922
Longitude: 82.718941
Elevation: 246.1±12 m
Accuracy: 5.1 m
Time: 02-10-2021 10:50
Note: 03Dol

Powered by NofeGam



Latitude: 20.307375
Longitude: 82.716849
Elevation: 206.05±20 m
Accuracy: 15.5 m
Time: 01-10-2021 10:52
Note: 04Dol

Powered by NoteCam



Latitude: 20.241007
Longitude: 82.770443
Elevation: 6911.43±123 m
Accuracy: 31.3 m
Time: 01-10-2021 11:42
Note: 04Dol

Powered by NoteCam



Latitude: 20.307977
Longitude: 82.716059
Elevation: 236.55±36 m
Accuracy: 21.3 m
Time: 01-10-2021 10:49
Note: 04Dol



