

Arpa Bhaisajhar Project in Bilaspur District (A Geographical Study)

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Abstract

Bilaspur Arpa Bhaisajhar Project is located on Arpa River in Kota development block of Bilaspur district. The length of this barrage is 140 m. It has a height of 975 meters with 8 water gates and water logging is 22168 MOM. Along with the various objectives of this irrigation project, it is the responsibility of keeping nature-given rain water safe and clean. This district is located in the central part of the state, with a total area of 3500.46 sq. Where the total population of the district is 18,502 it is based on secondary data and mapping has been done as per requirement. Clarifying the importance of irrigation.

Mr. Nayla has said that irrigation has tried to save life. Irrigation has proved to be a boon for human life in the field of agriculture and the income received from them, so this project is progressing in agricultural crop production with irrigation facilities to the surrounding areas, where various suggestions of the project are will prove helpful in being developed.

Introduction:

Bilaspur city is about 400 years old. And it is named on the name of a woman “**Bilasa**”. It continues towards development even after the disasters from time to time. Arpa Bhaisajhar Project is situated on the Arpa river of Kota development block of Bilaspur district. The length of this barrage is 147 meters. Its height is 9.75 meters with 08 water gate in it. The total water holding capacity of this project is 22,168 MCM, where 16.40 MCM is for use only. This project has been completed. The length of its main canal is 56.64 K.M. The length of its branch and distributor canal is 103.10 km. The project provides 25000 hectares of irrigation facility in 102 villages of Kota, Takhatpur and Bilha development blocks.

Objectives:

1. To expand the means of irrigation in Bilaspur district and promote water conservation.
2. To assess the water level situation in the surrounding areas from Arpa Bhaisajhar project.
3. To clarify the effect on agricultural production due to increase in irrigation facilities, apart from this it will also be useful for industrial factories, water supply, shipping and hydropower.
4. It is also an objective to fulfill the responsibility of keeping nature-given rain water safe and clean.

Study Area:

This district is located in the central part of the state; its geographical range is located between 21°47' to 23°0' north latitude and 61 ° 14 to 83 ° 15 east longitudes. This district is bounded by Gaurela-Pendra, Marwahi in the north, Mungeli and KabirDham districts in the west, Baloda Bazar, Bhatapara in the south and Korba and Janjgir-Champa districts in the east. Its total area is 3508.48 sq. km. The total population

of the district is 16, 25,502. Currently, District consist of 5 Tehsils, 4 Development Blocks, and 708 Villages.

Data Base and Methodology:

The present study is based on the secondary data, which has been studied as a unit standard on the data received from government offices. Values have been drawn as per the requirement of making the study interesting.

Arpa Bhaisajhar Project –

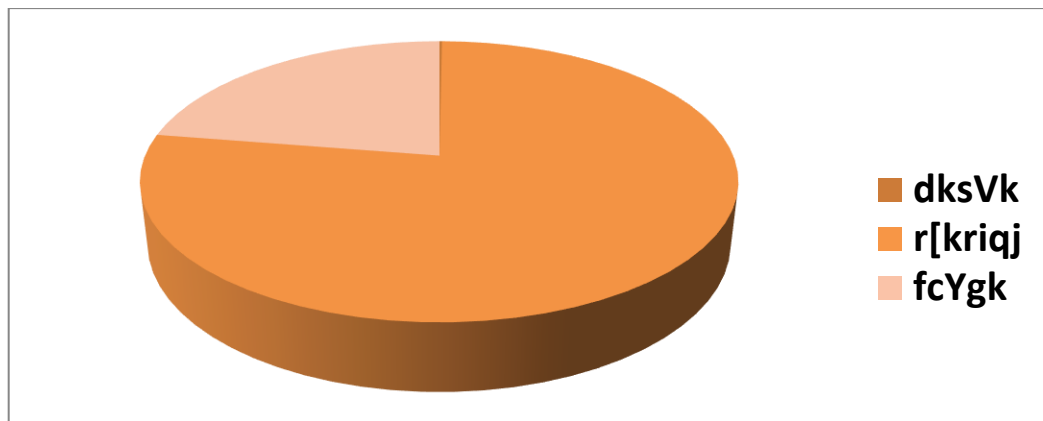
Water is the basis of life because no work is possible without water, so water becomes important place in human life. Due to growing population in the integrated plan of the institute of Water use and Agro-Environment Sector, the need for Arpa Bhaisajhar Project captures important place in field of irrigation, human and animal use, industry expansion, entertainment etc.

Mr. Niles has said that "Irrigation has made arrangements for the protection of life, irrigation has increased the yield of the land, the area of agriculture and the income derived from them, the terrestrial water resources of the district have given a boon to human life." It has been proved that this project is located in Arpa River near Bhaisajhar village of tehsil and development block Kota of Bilaspur district. This project is playing important role in expansion of irrigation facilities in Bilaspur district in total 25000.00 hectare area in 102 villages of the district. Irrigation facilities are available in Kharif crop.

Table No. – 01

Sr. No.	Name Of Development Block	Number Of Villages	Beneficial Irrigation Area In Hectare	Area (In Percentage)
1-	Kota	01	40	0-16%
2-	Takhatpur	70	19341	77-36%
3-	Bilha	31	5619	22-48%
	Total	102	25000-00	100%

Source- Water Resource Department, Bilaspur

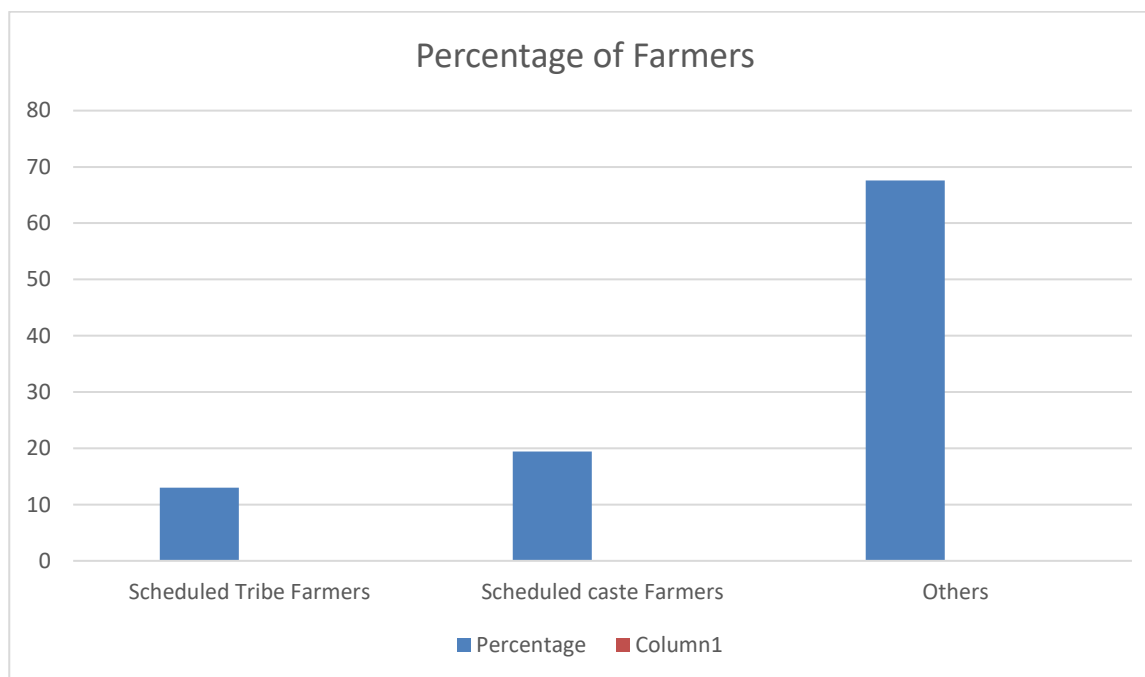


It is becoming clear from the above table that, The project consist of 3 development Blocks, and only 01 village is getting benefit from Kota, where 40 hectares of irrigation area is available which is only 0.16 percent of the total percentage. Similarly, 31 villages in Bilha have this facility which is 5619 Hectare land is irrigated it has been only 22.48% in the second place, In addition, 70 villages are getting benefitted in Takhatpur block, whose total area is 19,341 hectares, that is the highest level of irrigation from this project there is an expansion of irrigation facility. From this irrigation facility 77.63%. areas is benefitted in the form of maximum irrigation. Due to which farmers are getting profit in agricultural production.

Table No. – 02

Sr. No.	Farmers	Numbers	Percentage
1-	Scheduled Tribe Farmers	12,601	13.00
2-	Scheduled Caste Farmers	18,804	19.40
3-	Other Farmers	65,525	67.60
	Total Number of Farmers	96,930	100 Percentage

Source- Water Resource Department



It is clear from Table No. 02 that from this project the total number of farmers benefitted is 96930 in which scheduled tribe farmers only 13% are included while 19.40% of scheduled caste farmers benefit in use. Whose place is second. Apart from this the first place is 67.60% of other cultivators, i.e., the most benefitted.

Table No.- 03**Status of canal construction in Arpa Bhaiasajhar Project**

Sr. No	Canal Details	Designed	Built Soil Work KM	Hard Soil	
				Total	Construct
1-	Main canal	56-64	56-12	138	133
2-	Khamaria Branch Canal	26-33	25-20	67	63
3-	Ghutkhu Distributor Canal	14-78	14-00	34	30
4-	Uslapur Distributor Canal	14-15	11-90	31	28
5-	Chorbhatti Distributor Canal	8-15	7-10	22	20
6-	Digora Distributor Canal	7-42	6-85	14	8
7-	Bhojpuri Distributor Canal	10-88	3-30	22	01
8-	Sakra Sub Distributor Canal	9-09	6-25	19	14
9-	Chakarbhata Distributor Canal	12-74	8-56	19	12
	Total	159-74	139-57	363	309

Source- Water Resource Department

Canal is a more important means of irrigation in any project, under which Arpa Bhaiasajhar project is also one of them. Here 56.64 km as the main canal. The contour length has been found in 56.12 km which is made of clay. The project is the longest canal. The second number Khamharia branch canal is 28.33 km of shaped length where built-up with soil.

The work of Kit Paral is 25.20 km. Till this time, the work of Putku Uslapur Chorpati Kishos Bhojpuri, Sarkara and Chakarbhata distributor canal, the length of the art and the built soil has been completed. The sum of all these distributors is 18,834 in length and 138.57 km. Earthworks have been done. Due to which the work of irrigation for Kharif is in progress. Special grant has been received from the Government, Trap, Resource Department, Forest and Environment Department, NABARD scheme.

Benefits of the project:

1. This project has provided irrigation facility in about 20000 hectares of the district.
2. After displacing about 20 families of the area, facilities have been given by the government.
3. By storing water in the barrage, controlling the water flow of the Arpa river, still water is flowing in the Arpa river.
4. With the completion of this project, the people of Bilaspur city are pervaded because there will be continuous water flow in the Arpa river and the ground water level has increased by about 10 feet.

5. Through this scheme, additional irrigation is being made by implementing other small irrigation in the area, as well as drinking water is being supplied in the industrial area and other areas, so the scheme is beneficial and welfare
6. Arpa project for tourism. The work is in progress in the direction of the guard. Which will attract tourists in future.

Suggestions:

1. Arpa Bhaishajhar project, there is a need to bring social awareness in promoting steps towards water resource conservation.
2. The state government will try to give tourism and culture to this project site as an industry.
3. There is a need to take positive initiative in the direction of balancing this area, forest and environment.
4. It may be appropriate to provide facilities for various recreation places, fisheries, boating etc. Around this project, which will supply revenue, which will be helpful in its maintenance.
5. There is also a need to take initiative by expanding the future plan in this direction so that farmers can get more and more facilities in future.

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