

Project of use of canal water by UGPL of outlet No. 96025/R village Mahala Kalan, District Faridkot.

This project of Under Ground Pipe Line starts from outlet No. 96025/R Jandwala Minor. The discharge of the distributaries outlet is 5.17 Cusic. The Under Ground Pipe Line has been laid in the distributaries of this outlet where there were open channels earlier which were built 20 years back but now they are damaged from the last five years. The village Mahla Kalan comes under the Bagha Purana block of Distt. Moga. This block comes under the critical Zone and the water level is going down alarmingly.



Position before laying pipeline



Pipeline at village Mahala Kalan

Benefits of the Project:- The laying of pipelines at this project site brought no. of benefits as saving of land, increase in production yield, saving of electricity and this increasing the income of the farmers. The 5760 mtr. U.G.P.L. has been laid down for irrigating 744.24 hectares. With the cost of 100 lakhs out of which 90 lakhs has been utilized with the funds under R.K.V.Y. scheme and 10 lakhs with the contribution from the farmers. With the laying of these pipes the 4.78 acres of area coming under the open channels have been utilized for production of crops. With this an estimate increase in the production of wheat will be 105.16 Qtl. And rice 152.96 Qtl. With this increase of production there will be 3.04 lakhs increase in income of farmers. As earlier the open channels were broken and the water does not reach the tail ends. But after the laying of pipes the water is reaching all the beneficiaries of the outlet No. 96025/ R and there will be increase of 1.4 Qtl. of paddy and 1.00 Qtl. Of wheat/ acre. The beneficiaries of the outlet will have a total of 21.09 lakhs benefit per year. The U.G.P.L. will also save the water and also protect the water level from going down as there will be less pumping of water by the tube wells . An approximate of 9.66 lakhs cum.

Of water will be save. There will be 3.16 lakh units of electricity this saving Rs. 16.13 lakh. The amount of 1.69 lakh used to be spent on the repair of open channels will also be saved.

Quantitative Analysis of Benefits: The overall impact of laying the project is that there will be increaseD income of farmers amounting to Rs. 41.95 lakh and 9.66 lakh cum. saving of water.

Sr. No.	List of Benefits	Annual Benefits / acre			Total Benefit per annum
1	Land saving due to clearance of open channel.	197H04 sqm.L			197.4x96 = 18950.4 sqm. Or 4.78 acre
2	Increase in yield by above land	Wheat	22 qtl.	4.78x22 = 105.16	105.16x1280 = Rs.134604.8
		Paddy	32 qtl.	4.78x32 =	152.96x1110= Rs. 169785.6
3	Increase in yield due to uniform, sufficient and timely application of irrigation	Wheat	1 qtl. /hect.	744.24	744.24x1280= Rs. 952627.20
		Paddy	1.4 qtl. /hect.	1041.93	1041.93x111= Rs. 1156542
4	Saving of irrigation water	Wheat	1400 cum.	Saving @ 30% 420 cum	
		Paddy	2920 cum	878 cum	420+878= 1298x744.24 = 966023.52 cum
5	Electricity saving	Wheat	500 Unit	Saving @ 30% 125 unit	744.24x425= 316302 units
		Paddy	1200 Unit	300 Unit	316302x5.10= Rs. 1613140
6	Labour Charges	Wheat	100 hr.	Saving @ 25% 25 hr.	Saving in man days 3.125 days
		Paddy	240 hr.	60 hr.	7.5 days Total = 10.625 days 10.625x96 = 1020 man days 1020x166= Rs. 169320

Total benefits per year from the U.G.P.L. :

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| 1. Land saving | = | 4.78 Acre |
| 2. Income increase due to land saving | = | 3.04 Lakh |
| 3. Increase in yield (due to sufficient & timely application of irrigation) | = | 21.09 Lakh |
| 4. Saving of irrigation water (due to reduced losses) | = | 9.66 lakh cum. |
| 5. Electricity Saving | = | 16.13 Lakh |
| 6. Saving of Labour Charges of Maintenance | = | 1.69 lakh |
| (a) Total Benefit per year | = | 41.95 Lakh |
| (b) Saving of water | = | 9.66 Lakh cum. |