

Rajpora Lift Irrigation Scheme
General Abstract of Cost

S.NO	Sub-heads of the project	Part-A Expdt. Ending 3/2000	Part-B Expdt. Ending 3/2009	Pard-C Alloted works As on 01- 04-09	Part-D Balance works to be executed during 2009-10	Total Am
1	A- Preliminary	5.52	14.67	7.00	-----	27.19
2	B-Land	14.68	115.45	384.19	-----	514.32
3	C-Works a) Civil b) Mech	80.38 96.76	836.68 2503.24	12.71 5.46	75.02 -----	1004.79 2605.40
4	D-Regulators	-----	12.73	-----	18.27	31.00
5	F-Cross Drainage works	15.30	76.02	50.41	107.78	249.51
6	G-Bridges	5.61	64.28	26.92	14.14	110.98
7	H-Escapes	-----	35.76	12.72	21.19	69.67
8	K-Buildings	16.89	46.57	20.50	35.70	119.66
9	L-E/W & Lining	85.16	833.81	268.24	458.74	1645.95
10	M-Plantation	0.06	-----	-----	7.00	7.06
11	O-Miscellaneous	4.81	28.14	16.00	-----	48.95
12	P-Maitenance	2.79	2.02	25.19	-----	30.00
13	Q-Spl. T&P	-----	8.00	-----	-----	8.00
14	R-Communication	10.50	30.38	32.50	179.20	252.58
15	U-Distribution	-----	-----	19.44	-----	19.44
16	V-water courses	NOT	PRO	PO	SED	-----
17	Losses on stock	-----	-----	-----	8.88	8.88
18	Establishment	13.18	-----	206.95	-----	220.13
19	Ord. T&P	3.47	-----	-----	11.70	15.17
20	Receipts & Recocoveries	-----	-----	-----	-----	(-)2.70
21	Indirect charges	-----	-----	-----	34.03	34.03
	Totals	355.11	4607.75	1088.23	971.68	7020.07 lac

Signature
Executive Engineer
Irr. Division
Tral

Signature
Superintending Engineer
Hydraulic Circle Pulwama
H/Q Shopian

Signature
Chief Engineer,
Kashmir Irr. & FC Deptt
Srinagar,
Department
Control
S.A.R.

Signature
Executive Engineer
Irrigation Division, Tral

Salient Features Rajpora Lift Irrigation Scheme

A)-General:-

1. State----- Jammu and Kashmir
2. District----- Pulwama
3. Tehsil----- Tral
4. Source----- River Jehlum
5. Location of head works----- Larki-pora village Awantipora.
6. Highest flood discharge----- 2551 cumecs (as per original records)
7. Highest flood level----- 1593.07 mts
8. Minimum dependable discharge----- 169.90 cumecs
9. Min. water level in source----- 1585.36 mts

B)- Civil works

1. Type of structure (pump-house)--- RCC framed structure

C)- Design discharge

1. Stage 1st----- 3.40 cumec. ✓
2. Stage 2nd.
- a) Medura canal----- 1.53 cumecs ✓
- b) Rajpora canal----- 1.87 cumecs ✓

D)- No. of Pumps

1. Stage 1st----- 4 No's (each with 30[✓] cusec capacity)
2. Stage 2nd.
- a) Medura canal----- 4 No's (each with 13.5[✓] cusec capacity)
- b) Rajpora canal----- 4 No's (each with 16.5[✓] cusec capacity)

E)-Gross head of pumps.

1. Stage 1st----- 16.50 mts ✓
2. Stage 2nd.
- a) Medura canal----- 165.00 mts
- b) Rajpora canal----- 80.00 mts

F)- Size of water conductors

1. Stage 1st----- 1350 mms
2. Stage 2nd.
- a) Medura canal----- 1000 mms
- b) Rajpora canal----- 1250 mms.

G-a)- Electrical/ Mechanical works (Pumps)

1. Stage 1st----- 4 No's 275 HP vertical spindle mixed flow pumps each with a capacity of 30 cusecs, gross head of 16.5 mts and a speed of 1000 RPM.
2. Stage 2nd
- a) Medura canal----- 4 No's 1340 HP vertical pumps each with a capacity of 13.5 cusecs gross head of 165 mts and a speed 1500 RPM.
- b) Rajpora canal----- 4 No's 740 HP vertical pumps each with a capacity of 16.5 cusecs, gross head of 165 mts and a speed 1500 RPM.

G-b)- Electrical/ Mechanical works (Motors)

1. Stage 1st----- 4 No's 275 HP indigenous motors of 440 volts and 1000 RPM suitably coupled with respective pumps.
2. Stage 2nd
- a) Medura canal----- 4 No's 1340 HP indigenous motors of 11000 volts and 1500 RPM suitably coupled with respective pumps.
- b) Rajpora canal----- 4 No's 740 HP indigenous motors of 11000 volts and 1500 RPM suitably coupled with respective pumps.

H)- Canal System.----- Taking off from pump house stage 2nd connected to the Delivery tanks with the help of Rising mains of 1000mm Dia and 1250 mm dia for Medura and Rajpora canal respectively .

a) Medura canal

- (i) Length----- 6540.00 mts
- (ii) Section----- Trapezoidal
- (iii) Design depth----- 1.10 mts
- (iv) Free board----- 0.50 mts
- (v) Delivery bed----- 1742.39 mts
- (vi) Any other----- Service road along the rt. Side of canal.

b) Rajpora canal

- (i) Length----- 7500.00 mts
- (ii) Section----- Trapezoidal
- (iii) Design depth----- 1.10 mts
- (iv) Free board----- 0.50 mts
- (v) Delivery bed----- 1662.50 mts
- (vi) Any other----- Service road along the rt. Side of canal.

I)-Cross Drainage works

- a) Super passages-----20 No's
- b) RCC Flumes----- 2 No's
- c) Drainage crossings-2 No's
- d) Siphons----- 1 No.

J)- Command area.

- a) G C A----- 2429 Ha.
- b) C C A
 - (i) Kharief---1620 Ha
 - (ii) Rabi----- 809 Ha

K)- Intensity of irrigation

- (i) Kharief--- 100%
- (ii) Rabi----- 50%

L)- Cropping Pattern

A) Kharief


- (i) Potato ----- 725 Ha
- (ii)Maize ----- 121 Ha
- (iii)Pulses----- 91 Ha
- (iv) Luceren--- 450 Ha
- (v) Vegetables---233 Ha

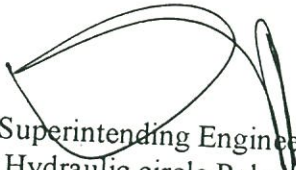
B) Rabi

- (i) Wheat----- 162 Ha
- (ii) Oil-seed ----- 647 Ha

M)- Benfit Cost Ratio

BCR-----1.28:1


Exec.Engineer
Irr.Division
Tral


Superintending Engineer
Hydraulic circle Pulwama
H/Q shopian.

CS


Executive Engineer
Irrigation Division, Tral.