

Flood threat of River Jhelum (Urgent works) (Abstract of Cost)

Rs. in lakh
at Price Level 2010

S. No	Particulars	Estimated Cost
	DIRECT CHARGES	
	I-Works	
1	A-Preliminary	65.00
2	B-Land	150.00
3	C-Works	9,024.52
4	D-Regulators & measuring devices	192.14
5	G-Bridges	76.64
6	O-Miscellaneous	6.34
7	P-Maintenance	92.93
8	Q-Special T & P	423.21
9	Losses on stock	23.23
	Total of I-works	10,054.01
10	II-Establishment	0.00
11	III-T & P	0.00
12	IV-Suspense	0.00
13	V-Receipts & Recoveries on capital account	0.00
	a) Credit due to resale or transfer of machinery	-314.93
	Total Direct Charges	9,739.08
	INDIRECT CHARGES	
	a) Audit & Accounts charges	0.00
	b) Abatement of land revenue	7.25
	Total Indirect Charges	7.25
	Grand Total	9,746.33

Amount (in Rs. crore) = Rs 97.46 crore

Break up of the Project:

Rs. in crore

1	Dredging of Outfall Channel	₹ 27.13
2	Flood Spill Channel	₹ 50.68
3	Main River Jhelum	₹ 16.47
4	Doodhganga Diversion Channel	₹ 1.01
5	Tributaries	₹ 2.17
	Total Cost	₹ 97.46

DETAILED ABSTRACT OF COST		
S. No	Particulars	Estimated Cost
		(Rs. in lacs)
1	2	3
	DIRECT CHARGES	
	1-Works	
1	A-Preliminary	
	a) Survey work/Model analysis/Geo-technical investigation etc.	
	i) Flood Spill Channel	25.00
	ii) Main river (RD 52.0 to RD 124.0 kms)	25.00
	iii) Doodhganga Diversion Channel	15.00
	Sub total	65.00
2	B-Land	
	a) Compensation of land, structures, standing crops, solatium charges etc.	
	i) Flood Spill Channel	150.00
	Sub total	150.00
3	C-Works	
	a) Flood Spill Channel	
	i) Earthwork from Padshahibagh to Hokersar.	2,665.00
	ii) Channel across Hokersar entry to exit point.	584.00
	iii) Earthwork for realignment of cunnette in Wullar.	494.00
	iv) Construction of toe wall and stone pitching on both banks of Flood Spill Channel.	483.00
	v) Protection along the cunnette of Hokersar & Wullar lake.	379.00
	b) Outfall Channel	
	i) Construction of dykes/allied civil works	70.00
	ii) Dredging of Dykes/allied Civil works	
	i) Procurement of cutter suction dredge with dredging depth capacity upto 6m, dredge pump capacity upto 1000 cum of slurry per hour with solid concentration upto 15-20 % with allied accessories.	2,000.00
	ii) Motorized tug boat for towing/positioning of cutter suction dredge and heavy earth moving machines.	75.00
	iii) Procurement of heavy earth moving machines viz. D-50, D-80 track mounted dozer.	150.00
	iv) Procurement of motorized inspection boat	12.00
	v) Procurement of inspection vehicle	6.50
	vi) Procurement of mobile van	7.00

DETAILED ABSTRACT OF COST		
S. No	Particulars	Estimated Cost
		(Rs. in lacs)
	vii) Procurement of heavy duty pick and carry hydraulic operated mobile crane.	30.00
	viii) Procurement of full body truck	12.00
	ix) Procurement of heavy duty wooden boat	2.00
	x) Procurement of diesel engine driven DC arc welding generator with welding range upto 300 amp.	6.00
	xi) Procurement of welding set heavy duty of 350 amp capacity with allied accessories.	0.50
	xii) Store watch and ward arrangement to be fabricated on a departmental barge.	4.00
	xiii) Tools and tackles	0.50
	viii) Pickup vans for carriage of men and material diesel, tools and tackles. (5 no)	50.00
	ix) Miscellaneous/ Contingencies	15.87
	x) Procurement of back hoe excavator/ loader complete with all attachments. (6 no)	126.00
	2,497.37	
	c) Weir at Chattabal	
	i) Re-construction and renovation of weir across River Jhelum at Chattabal Srinagar. (Part A)	750.00
	d) Doodhganga Diversion Channel	
	i) Earthwork of diversion channel from RD 30m (Mochu head) to RD672.9m (existing fall).	38.00
	ii) Earthwork of diversion channel from RD 6620m (Nadirgund) to RD 10094m (Bemina bridge).	17.00
	e) Main river (RD 52.0 to RD 124.0 kms)	
	i) Construction of toe wall & stone pitching along R. P. bund of river Jhelum from RD 74.534 kms to RD 75.400 kms.	189.00
	ii) Construction of toe wall & stone pitching along R.P. bund of river Jhelum from RD 79.045kms to RD 79.320 kms.	60.00
	iii) Construction of toe wall & stone pitching on L.P. bund of river Jhelum from RD 74.720 kms to RD 75.400 kms.	150.00
	iv) Construction of toe wall & stone pitching on L.P. bund of river Jhelum from RD 89250 m to RD 95600 m at spots.	58.02
	v) –do– L.P. bund of river Jhelum from RD 106000m to RD 114000m at spots.	49.51
	vi) –do– L.P. bund of river Jhelum from RD 118000m to RD 121000m at spots.	33.24

DETAILED ABSTRACT OF COST		
S. No	Particulars	Estimated Cost
		(Rs. in lacs)
	vii) Construction of masonry retaining wall on L. P. bund of river Jhelum at RD 115450 m to RD 115550m.	48.09
	viii) Construction of toe wall & stone pitching on R. P. bund of river Jhelum from RD 86150 m to RD 95100m at spots.	82.39
	ix) –do– on R.P. bund of river Jhelum from RD 110100m to RD 110250m.	9.90
	x) Construction of masonry retaining wall on R.P. bund of river Jhelum at RD 103000m.	28.89
	xi) –do– on R.P. bund of river Jhelum from RD 114000m to RD 114700m at spots.	86.58
	xii) Construction of masonry ghats on river Jhelum at spots.	15.31
	xiii) Construction of ring bunds at spots wherever required during construction of retaining walls or toe walls.	8.36
	xiv) Provision for supply of geo synthetic clay liner (16250 sqm).	13.00
	f) Improvements to major tributaries by way of construction of F.P. works, raising & strengthening of embankments on various nallahs at vulnerable spots.	
	i) Construction of F. P. work on Ninglee nallah by way of retaining wall at Amberpora, Tarzoo.	4.40
	ii) –do– on Outfall channel at Gundiseer.	14.61
	iii) –do– on Ninglee nallah at Kalantara Payeen.	6.05
	iv) Construction of F. P. work on Freshar nallah by way of c.c. retaining wall at Wangam.	6.28
	v) –do– Shive nallah at Goripora.	1.70
	vi) –do– on Ninglee nallah near primary school at Amberpora , Tarzoo.	11.81
	vii) –do– on Ninglee nallah by way of c.c. wall at Amberpora, Tarzoo.	4.80
	viii) –do– on Auth nallah near Rebbom mosque.	11.40
	ix) –do– escape gate on Watlab Adipora bund of Outfall channel at Adipora.	8.43
	x) Construction of F. P. work on Card nallah by way of lining wall at Hib Dangerpora.	10.39
	xi) Construction of F. P. work on Ninglee nallah at Kalantara Payeen.	9.10
	xii) –do– on Ninglee nallah at Taribal u/s Saloosa bridge by way of cunnette cutting and c.c. protection wall.	4.69

DETAILED ABSTRACT OF COST		
S. No	Particulars	Estimated Cost
		(Rs. in lacs)
	xiii) –do– Khurshi nallah by way of c.c. wall at Takya Wagoora.	7.01
	xiv) Construction of c.c. protection wall on Ninglee nallah at Kunder mohalla, Tarzoo.	7.91
	xv) –do– on Ninglee nallah near graveyard/school.	4.86
	xvi) Construction of c.c. retaining wall on Pohru nallah at Ganie mohalla, Bohripora.	27.25
	xvii) Construction of F.P. work on Khurshi nallah by way of c.c. wall at Takya Wagoora.	4.69
	xviii) Construction of F.P. work on Sindh nallah at Check Akhal on left and right side d/s bridge	9.58
	xix) –do– at Bonibagh.	7.45
	xx) –do– at Hayen u/s bridge.	8.90
	xxi) –do– at Nunner on left side.	11.59
	xxii) –do– at Pati Shallabugh on right side.	4.61
	xxiii) –do– by way of crate spurs at Arech at spots.	12.82
	xxiv) –do– at Balpati, Wussan on right side.	7.61
	xxv) –do– by way of crate spurs at Wahidpora at spots.	6.92
	Sub total	9,024.52
4	D-Regulators & measuring devices	
	a) Flood Spill Channel	
	i) Construction of hydraulic gate at escape channel of flood spill. channel at Doodhganga escape channel.	94.00
	ii) Construction of hydraulic gate at Hokersar inlet point.	49.00
	c) Doodhganga Diversion Channel	
	i) Construction of hydraulic gate(single winch two paneled) including bed treatment at spots on Nadirgund bund.	15.00
	ii) Construction of hydraulic gate (single winch two paneled) including bed treatment on Mahraji nallah at Bemina.	15.00
	d) Main river (RD 52.0 to RD 124.0 kms)	
	i) Construction of control gates on river Jhelum at spots	19.14
	Sub total	192.14
5	G-Bridges	
	a) Flood Spill Channel	
	i) Construction of submersible steel bridge over cunnette.	76.64
	Sub total	76.64

DETAILED ABSTRACT OF COST		
S. No	Particulars	Estimated Cost
		(Rs. in lacs)
6	O-Miscellaneous	
	a) Outfall Channel	
	i) Operational charges of inspection vehicles	1.84
	ii) Other unforeseen items	4.50
	Sub total	6.34
7	P-Maintenance	
	Provision @ 1% I-Works minus A-Preliminary, B-Land and Q-Special T & P. Rs(10054.01-65.00-150.00-423.21)=Rs 9415.18 lacs @ 1%=Rs 94.15 but allowed as Rs 92.93 Lacs.	92.93
	Sub total	92.93
8	Q-Special T & P	
	a) Outfall Channel	
	b) Contingency plan for dewatering pumps	
	i) Procurement of portable trolley mounted, 5 cusec capacity, 10-15 m dynamic head, 25-40 H.P. Motors Electric/Diesel Engine Driven Horizontal Pumps on common base frame complete with canopy, starter and control panel with gadgets. (6 no each)	84.00
	ii) Procurement of portable trolley mounted 2 cusec capacity, 10-15 m dynamic head, 15-30 H.P. Motors Electric/Diesel Engine Driven Horizontal pumps on common base frame complete with canopy, starter and control panel with gadgets. (6 & 11 no respectively)	88.00
	iii) Procurement of portable trolley mounted 3 cusec capacity, 10-15 m dynamic head, 15-30 H.P. Motors Electric/Diesel Engine Driven Horizontal pumps on common base frame complete with canopy, starter and control panel with gadgets. (6 & 11 no respectively)	93.00
	iv) Procurement of portable trolley mounted 10 cusec, 10 meter head coupled with 60 H.P. Motors Electric motor mounted on channel iron base frame including starter, control panel and power cable. (6 no)	48.00
	v) Procurement of 6/8/10 inch diameter, rubber armored suction hose pipe complete with foot valve, clamps, flanges etc (each of an average length of 7 meters) (45 no)	16.00

DETAILED ABSTRACT OF COST		
S. No	Particulars	Estimated Cost
		(Rs. in lacs)
	vi) Procurement of 6/8/10/12 inch diameter, MS Bends, complete with nuts/bolts, washers etc (each of an average length of 30 meters) (1700 m)	52.00
	vii) Procurement of 08-10 MT capacity HT cranes. (2 no)	25.00
	viii) Miscellenous items	17.21
	Sub total	423.21
9	Losses on stock	
	i) Provision @ 0.25% of I-Works minus A-Preliminary, B-Land and Q-Special T & P. Rs(10054.01-65.00-150.00-423.21)=Rs 9415.18 lacs @ 0.25%=Rs 23.53but allowed as Rs 23.23 Lacs.	23.23
	Sub total	23.23
10	II-Establishment	NIL
11	III-T & P	NIL
12	IV-Suspense	NIL
13	V-Receipts & Recoveries on capital account	
	a) Credit due to resale or transfer of machinery	
	i) Salvage value of machinery @ 7.44% of Q-Special T & P	-314.93
	Sub total	-314.93
14	INDIRECT CHARGES	
	a) Audit & Accounts charges (No provision required)	0.00
	b) Abatement of land revenue	7.25
	Sub total	7.25
	Grand Total	9,746.33