

1. **Name of Work:** Remodeling/Modernization from RD 8300-43000 M of Main Ravi Canal by way of providing Cement Concrete lining.

S.No.	Particulars of Items	Amount
1.	Clearing jungle including uprooting of rank, vegetation, grass, brushwood, trees and saplings of girth upto 30cm measured at height of 1m above ground level & removal of rubbish material upto a distance of 50m outside the periphery of the area cleared:- $\bar{2} \times 100m \times (3+4)m = 1400m^2 @ 70\% = 980m^2 @ Rs 1249.10/100m^2$	12241/-
2.	Silt clearance from canal. Inclusive of initial lead and lift (50m & 1.5m respectively): Qty.: $\bar{1} \times 100m \times 1.938m^2 = 193.80m^3 @ Rs 111.00/m^3$	21511/-
3.	Demolishing cement concrete manually/by mechanical means including disposal of material within 50 meters lead:- 1:3:6 or richer mix L/Side = $\bar{1} \times 100m \times 6.56m \times 0.10m = 65.60m^3$ R/Side = $\bar{1} \times 100m \times 6.56m \times 0.10m = 65.60m^3$ Bed = $\bar{1} \times 100m \times 3m \times 0.10m = 30.00m^3$ Top = $\bar{2} \times 100m \times 0.45m \times 0.10m = 9.00m^3$ Total = $170.2m^3 @ 50\% = 85.10m^3 @ Rs 1725.20/m^3$	146814/-
4.	Prepare and dressing side slopes and bed of canals for lining: (a) L/Side = $\bar{1} \times 100m \times 6.56m = 656m^2$ R/Side = $\bar{1} \times 100m \times 6.56m = 656m^2$ Total = $1312.00m^2 @ Rs 33.20/m^2$ (b) Bed = $\bar{1} \times 100m \times 3m = 300.00m^2$ Top = $\bar{2} \times 100m \times 0.45m = 90m^2$ Total = $390.00m^2 @ Rs 27.45/m^2$	43558/- 10705/-
5.	Excavating conglomerate (for drains and bed sleepers under the lining): $(\bar{3}\bar{3} + 1) \times 17.02m \times 0.30m \times 0.10m = 17.34m^3$ $4 \times 89.80m \times 0.30m \times 0.10m = 10.76m^3$ Total = $28.10m^3 @ Rs 1665.35/m^3$	46796/-
6.	Providing and fixing upto floor five level precast cement concrete solid blocks including hoisting setting in position in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering and curing complete: 1:3:6 (1 cement : 3 coarse sand : 6 graded crushed stone aggregate 20 mm nominal size) Bed-Sleepers: Qty. vide item no. 5 = $28.10m^3 @ Rs 12876.15/m^3$	361819/-
7.	Providing and laying 10 mm thick, 1 cement ; 3 fine sand sand mortar slurry on beds and side slopes (prior to laying In-situ concrete lining): $100m \times 17.02m = 1702.00m^2 @ Rs 77.75/m^2$	132330/-
8.	Extra for every additional lift (2 nos.) of 1.5 mtr. or part thereof in: Qty. vide item no.3 = $85.10m^3$ Qty. vide item no.2 = $193.80m^3$ Total = $278.90m^3 @ Rs 179.50/m^3$	50062/-
9.	Providing and laying in-situ concrete lining using M-20 nominal mix concrete (max. size of aggregate: 20mm nominal): (a) On slopes: Qty. vide item no.4(a) = $131.2m^3 @ Rs 7255.90/m^3$ (b) Horizontal: Qty. vide item no.4(b) = $39.00m^3 @ Rs. 6911.80/m^3$	951974/- 269560/-

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10.	Filling expansion joints (12mm wide) with special Impervious hot-pour:- Qty.: (a) Perimeter = $\overline{33} \times 17.0m \times 0.012m \times 0.05m = 0.34m^3$ (b) Longitudinal = $\overline{4} \times 100m \times 0.012m \times 0.05m = 0.24m^3$ Total = $0.58m^3 @ Rs 96506.60/m^3$				55973/-
11.	Curing canal lining for 28 days: For Bed = $\overline{1} \times 100m \times 3m = 300m^2$ Top = $\overline{2} \times 100m \times 0.45m = 90m^2$ Total = $390m^2 @ Rs 20.15/m^2$ For Slope = $\overline{2} \times 100m \times 6.56m = 1312m^2 @ Rs 62.85/m^2$				7858/- 82459/-
12.	Scaffolding for canal lining: $\overline{2} \times 100m \times 6.56m = 1312m^2 @ 80\% = 1049.6m^2 @ Rs 4.75/m^2$				4985/-
<b>MATERIAL STATEMENT</b>					
Item No.	Qty.	Rate	Cement	Sand	Bajree
6.	$170.20m^3$	8.00 bags	$1361.60$ bags	$76.59m^3$	$153.18m^3$
13.	Carriage of Sand and Bajree at an avg. lead of 10 km by MT: Qty.: $229.77m^3 @ Rs 279.04/m^3$				64115/-
Total for 100m lining = Cost for 1m lining = Rs 22627/- Total length of lining = 22000M					2262760/- 5656.75 lacs

Jr. Engineer

Asstt. Executive Engineer

Executive Engineer  
RCC Upper Division  
Kathua

## Typical X-Sec of Main Ravi Canal

