

# ECOLOGICAL RESTORATION PLAN FOR THE CONSTRUCTION OF LINK ROAD FROM KANOL TO MORCH IN DISTRICT KANGRA (H.P.)

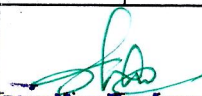
## Retaining Wall & Edge Wall Cost Estimation as per Schedule Rates for 2022

Sr. No.	Description	Qty. (cum)	Rate (Rs.)	Unit	Amount (Rs.)
1	Earth Work in Excavation by Mechanical / Manual means in foundation trenches or drains including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as direction within a lead of 50 m.	537.98	266.93	Per/ cum	143603
2	Providing and laying cement concrete in Retaining Walls including attached Plasters, Columns, Abutments, Pillars. Posts, Parapets etc. upto floor line level excluding the cost of shuttering and finishing cement concrete (1:5:10)	994.52	3261.56	Per/ cum	3243687
3	Providing Backfilling of selected hard stone behind abutments, Return walls, Retaining Walls and Wing walls, complete as per drawing and Technical Specification clause 1204.3.8. The rate is inclusive for carriage of material within all leads, lift of material and other incidental.	270.6	745.39	Per/ cum	201703
4	Providing weep hole in brick masonry / stone masonry / plain reinforced concrete abutments, wing walls, return walls with 100 mm dia PVC pipe extending through full width of the structures with slope of 1(V):20(H) as per drawing and technical specification clause 614, 709, 1204.37 including carriage of material and other incidental.	1142	291.38	Per / item	332756
<b>Total Amount (Rs.)</b>					<b>3921748</b>

Dated : 12-07-2022

Place : Kangra

  
**Divisional Forest Officer**  
**Forest Division**  
**Dharamshala**

  
**Executive Engineer,**  
**Kangra Division,**  
**NP- FVVD, Kangra,**  
**H.P. W.D. Kangra**

# Detail of Measurements

**Name of Work :- Construction of Retaining walls and edge walls at various reaches  
for Link Road from Kanol to Morch (Rd 0/00 to 9/100 km)**

S. No.	Description of Item	No.	L	B	H	Quantity
1	<b>Earthwork in excavation for all type of road structure such as R/Walls, B/Walls etc.</b>					
	RD 0/510 to 0/575	1	65.00	1.20	0.65	50.70
	RD 0/840 to 0/882	1	42.00	0.90	0.60	22.68
	RD 1/135 to 1/210	1	75.00	1.35	0.83	83.53
	RD 1/830 to 1/851	1	21.00	1.50	0.83	25.99
	RD 3/050 to 3/082	1	32.00	1.20	0.60	23.04
	RD 3/580 to 3/645	1	65.00	1.05	0.65	44.36
	RD 4/715 to 4/812	1	97.00	1.00	0.68	65.48
	RD 5/410 to 5/692	1	82.00	1.20	0.65	63.96
	RD 5/800 to 5/905	1	105.00	1.00	0.75	78.75
	RD 8/385 to 8/432	1	47.00	1.25	0.70	41.13
	RD 8/809 to 8/840	1	31.00	1.50	0.83	38.36
	<b>Total (Cum)</b>					<b>537.98</b>

2	<b>P/L plain Cement concrete 1:4:8 in open foundation for Retaining Wall / Edge Wall</b>					
	RD 0/510 to 0/575	1	65.00	0.90	1.80	105.30
	RD 0/840 to 0/882	1	42.00	0.75	0.90	28.35
	RD 1/135 to 1/210	1	75.00	0.98	2.40	175.50
	RD 1/830 to 1/851	1	21.00	1.05	2.70	59.54
	RD 3/050 to 3/082	1	32.00	0.90	1.80	51.84
	RD 3/580 to 3/645	1	65.00	0.83	1.35	72.39
	RD 4/715 to 4/812	1	97.00	0.80	1.20	93.12
	RD 5/410 to 5/692	1	82.00	0.90	1.80	132.84
	RD 5/800 to 5/905	1	105.00	0.80	1.20	100.80
	RD 8/385 to 8/432	1	47.00	0.93	2.00	86.95
	RD 8/809 to 8/840	1	31.00	1.05	2.70	87.89
	<b>Total (Cum)</b>					<b>994.52</b>

  
**Executive Eng.**  
**Kangra Division,**  
**HPJ PWD, Kangra.**


  
**Divisional Forest Officer**  
**Forest Division**  
**Dharamshala**

3	Backfilling with material behind abutments, Wing walls & Retaining Walls / Edge Walls, etc.					
	RD 0/510 to 0/575	1	65.00	0.60	0.90	35.10
	RD 0/840 to 0/882	1	42.00	0.60	0.20	5.04
	RD 1/135 to 1/210	1	75.00	0.60	1.20	54.00
	RD 1/830 to 1/851	1	21.00	0.60	1.35	17.01
	RD 3/050 to 3/082	1	32.00	0.60	0.90	17.28
	RD 3/580 to 3/645	1	65.00	0.60	0.45	17.55
	RD 4/715 to 4/812	1	97.00	0.60	0.20	11.64
	RD 5/410 to 5/692	1	82.00	0.60	0.90	44.28
	RD 5/800 to 5/905	1	105.00	0.60	0.20	12.60
	RD 8/385 to 8/432	1	47.00	0.60	1.00	28.20
	RD 8/809 to 8/840	1	31.00	0.60	1.50	27.90
	Total (Cum)					270.60

4	Providing weep holes with 100 mm dia PVC pipe in abutments, wing walls & R/Walls / Edge walls					
	RD 0/510 to 0/575	1 x 2	65	0	0	130
	RD 0/840 to 0/882	1 x 1	42	0	0	42
	RD 1/135 to 1/210	1 x 3	75	0	0	225
	RD 1/830 to 1/851	1 x 3	21	0	0	63
	RD 3/050 to 3/082	1 x 2	32	0	0	64
	RD 3/580 to 3/645	1 x 1	65	0	0	65
	RD 4/715 to 4/812	1 x 1	97	0	0	97
	RD 5/410 to 5/692	1 x 2	82	0	0	164
	RD 5/800 to 5/905	1 x 1	105	0	0	105
	RD 8/385 to 8/432	1 x 2	47	0	0	94
	RD 8/809 to 8/840	1 x 3	31	0	0	93
	Total Number					1142

Dated : 12-07-2021

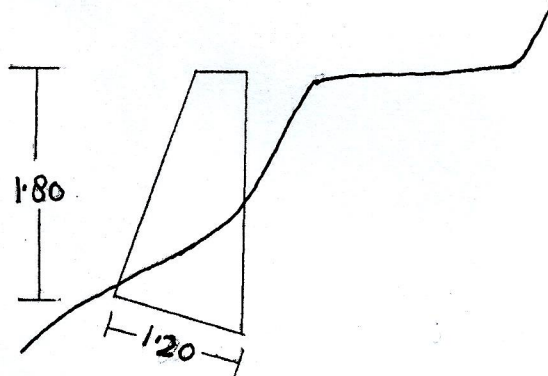
Place : Kangra

  
Executive Engineer,  
Kangra Division,  
HP PWD, Kangra

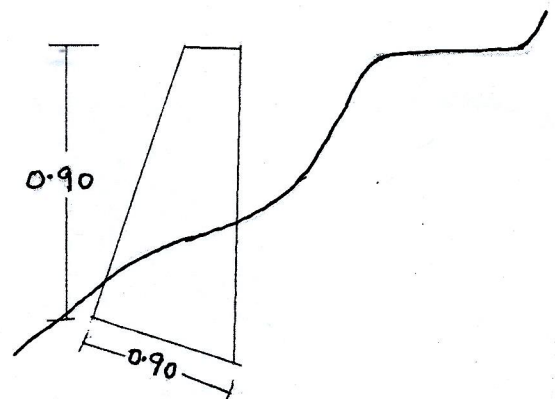
  
Divisional Forest Officer  
Forest Division  
Dharamshala



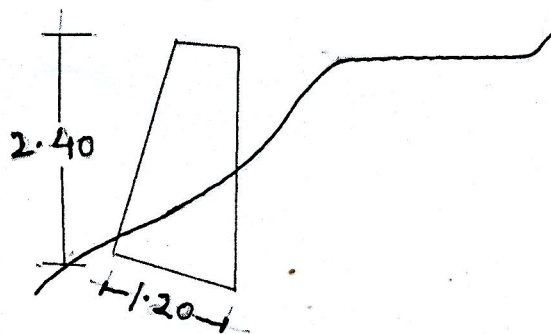
NAME OF WORK : CONSTRUCTION OF LINK ROAD FROM KANOL TO MORCH KM 0/0 TO 9/100 KM



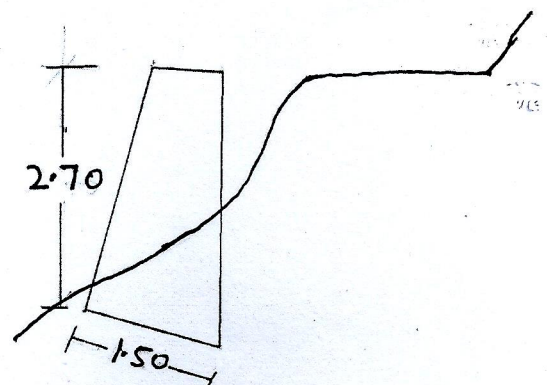
X- Sec at RD 0/510 to 0/575  
3/050 to 3/082, 5/410 to 5/492 km



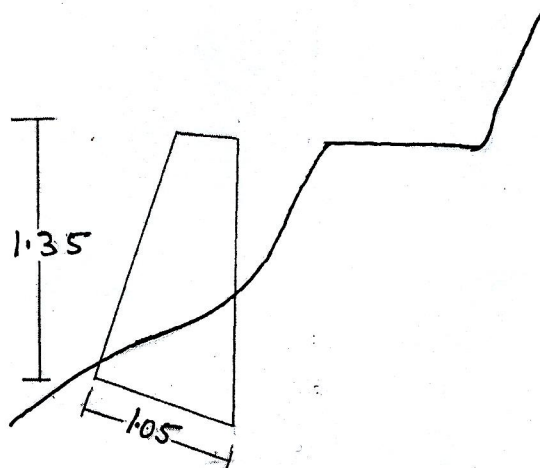
X- Sec at RD  
0/840 to 0/882 km



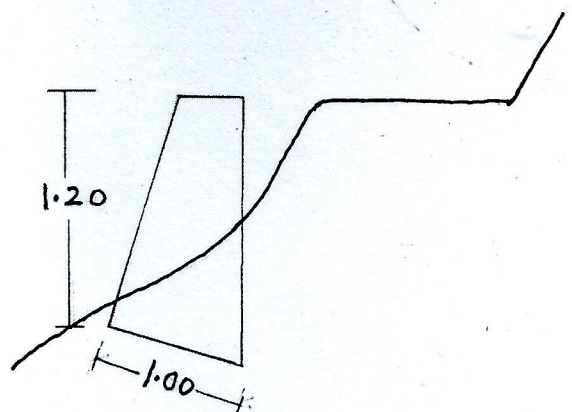
X-Sec at RD 1/135 to 1/210 km



X-Sec at RD 1/830 to 1/851 &  
8/809 to 8/840 km



X-Sec at RD 3/580 to 3/645 km



X-Sec at RD 4/715 to 4/812 &  
5/800 to 5/905 km

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