## Proposal of Retaining walls and B/Wall in forest land coming under alignment of Pacheri.

S.No	Description of items	RD	Proposed	Amount in
			length (M)	Rs.
1	Retaining walls			
	Gerni Pucca	KM IST to	Dooroo Rmd	198.51
	R/wall 1	KM IOTA		
	R/wall / Semi Pucco E/wall	KM ISt to	350000R0	128.10
	E/wall	KM 10Th		
	,			
	Total			
2.	B/Walls	J.		
*	Beni Pucco B/wel	KM ISU to	BOO. Rmd	25.17
		KM 107h	. 3	
		,		
	Total			
	Total (1+2)		5100.00RM	351.78.0

Junior Engineer

Assistant Executive Engineer Assistant Executive Engineer, BECROPICING-Subsidivision

Bhadarwah

Bhadarwah

Exacultive Engineer

Bhadarwah Chamba Road Division

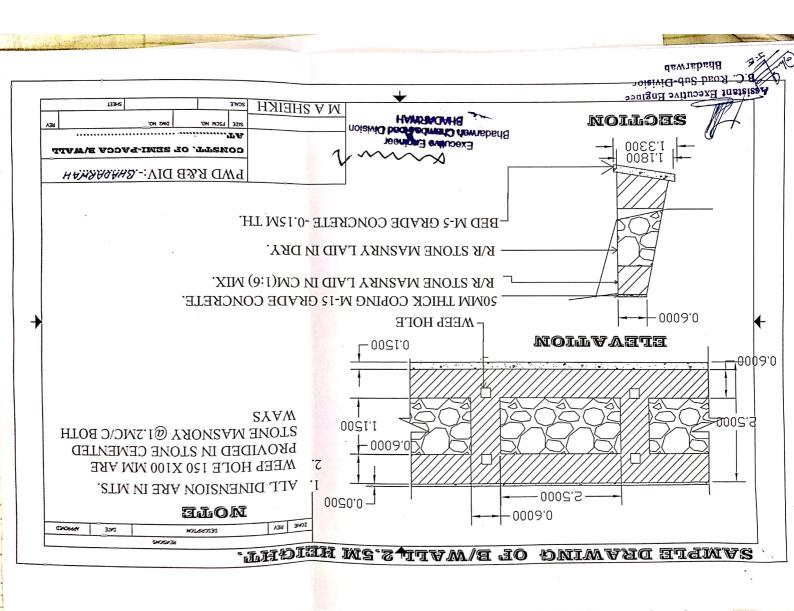
B. BRADARWAH

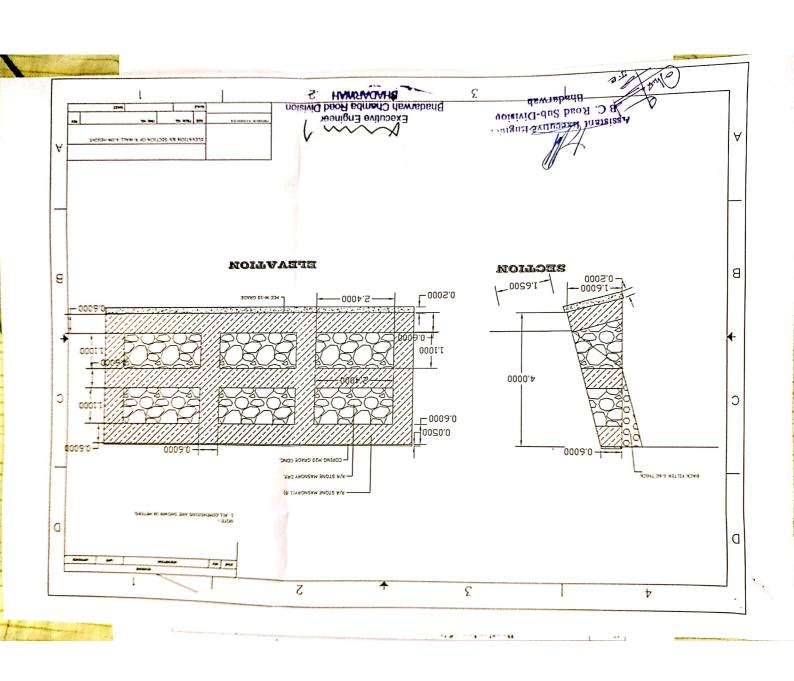
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## Typical estimate for construction of semi Pacca R/Wall 4.0mtrs height. (Length 11.00mtrs)

S.no.	Particular of items	Amount (Rupees)
1.	Earth work in excavation over areas (exceeding 30cm in depth, 1.5 in width as well as 10sqm on plan) including disposal of excavated earth and lift up to 1.5m, disposed earth to be leveled and neatly dressed for a lead of 25Mtrs 50% of all kinds of soil, 30% ordinary rock, 20% hard rock	
	$11X(0.75+1.50)/2X1.60 = 19.80 \text{ cum } @ \text{Rs. } 382.27/\text{m}^3$	
		7569.00
2.	Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse sand: 10 stone aggregate) 40mm size of stone agg. 1x11.00x1.6x0.15 = 02.64cum @Rs.3672.75m <sup>3</sup>	9696.00
3.	Polygonal Rubble Masonry in (1 cement: 6 coarse sand) Nallah in Foundation and plinth including leveling up with cement concentrate 1:6:12 mix with 20mm nominal size stone aggregate.  Bottom Band = $11.0x(1.3+1.6)/2x0.60 = 9.57$ cum  Top Band = $11x(0.60+0.70)/2x0.60 = 4.29$ cum  Vertical Band = $5x(0.70+1.3)/2x2.80x0.6 = 8.40$ cum	
	Total =22.26cum@2583.50/cum	57508.00
4.	Polygonal Random Rubble Masonry Nallah stones laid dry in foundation and plinth with 50%available stone.  2X(0.70+1.3)/2x2.8x4 =22.40 cum@Rs.1304.45/cum	29220.00
5.	Providing and laying horizontal DPC 50mm thick nominal mix concrete 1:2:4 with 20mm stone aggregate.  11x 0.6 = 6.6sqm @ Rs.268.10/sqm	1769.00
6.	Supply and hand packed filling of stones: (including cost stones) $11x \frac{1}{2} \times 1.10 \times 2.5 = 15.12 \text{cum}$ @ Rs.327.05/cum	4946.00
7.	Centering and shuttering Bed = 11x 0.15 = 1.65sqm@Rs342.80/sqm	565.00
8	Carriage of material by MT  Stone 10Km by MT  Qty. vide item no.3 = 22.26cum  Qty. vide item no.4 = 22.40 cum  Qty. vide item no.6 = 15.12cum  Total = 59.78cum@Rs.202.11/m <sup>3</sup>	12082.00
9.	Stone aggregate 40mm average distance 10Kms by MT Qty. vide item no.2 = 2.64cum @ 0.94/cum = 2.48cum@ Rs.186.73/m <sup>3</sup>	463.00

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10	crushed Bajree average distance 45Kms by Mt Qty. vide item no.5 = 6.6cum@0.045/cum = 0.29cum@Rs389.63/m <sup>3</sup>	113.00	
11.	Sand average distance 40Kms by MT  Oty. vide item no.2 = 2.64cum @ 0.47/cum = 1.24cum  Oty. vide item no.3 = 22.26cum @ 0.38/cum = 8.45cum  Oty. vide item no.5 = 6.60 sqm @ 0.023/sqm = 0.15cum  Total = 9.84cum @Rs.360.48m <sup>3</sup>		
244	Total Add 40% above  Grand Total	127478.00 50991.00 38243=ル 178469.00 165721=ル	

Cost per Meter = Rs.16225/RM

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Executive Engineer, B.C.Road Division, Bhaderwah.

## Typical estimate for construction of semi Pacca B/Wall 2.0mtrs height. (Length 11.00mtrs)

S.no.	Particular of items	Amount (Rupees)
1.	Earth work in excavation over areas (exceeding 30cm in depth, 1.5 in	(
	width as well as 10sqm on plan) including disposal of excavated earth and	
	lift up to 1.5m, disposed earth to be leveled and neatly dressed for a lead	
	of 25Mtrs 50% of all kinds of soil, 30% ordinary rock, 20% hard rock	
	$\frac{1}{2} + 0.3 \times 0.75 = 0.11 \text{ sqm}.$	
	$(0.30 + 1.20)/2 \times 0.75 = 0.56$ sqm	
	$(1.20+1.10)/2 \times 0.65 = 0.74$	
	Total = 1.41 x 11 = 15.59 cum @ Rs. $382.27/\text{m}^3$	5960.00
2.	Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse sand: 10	
	stone aggregate) 40mm size of stone agg.	
	$1x11.00x1.1x0.15 = 1.81cum @Rs.2750.40m^3$	4978.00
3.	Polygonal Rubble Masonry in (1 cement: 6 coarse sand) Nallah in	
	Foundation and plinth including leveling up with cement concentrate	
-	1:6:12 mix with 20mm nominal size stone aggregate.	
	Bottom Band = $11.0x(1.0+1.1)/2x0.60 = 6.93$ cum	
	Top Band = $11x(0.60+0.70)/2x0.60 = 4.29cum$	
	Vertical Band = $5x(0.70+1.0)/2x0.80x0.6 = 2.04$ cum	
	Total = $13.26$ cum@ $2583.50$ /m <sup>3</sup>	34257.00
4.	Polygonal Random Rubble Masonry Nallah stones laid dry in foundation	
	and plinth with 50% available stone.	
	(0.70+1.0)/2x2x0.8x4 = 5.44cum@Rs.1304.45/m3	7096.00
5.	Providing and laying horizontal DPC 50mm thick nominal mix concrete	
	1:2:4 with 20mm stone aggregate.	
	11x 0.6 = 6.6sqm @ Rs.268.10/sqm	1769.00
6.	Centering and shuttering	
	$Bed = 11x \ 0.15 = 1.65 sqm@Rs 342.80/sqm$	565.00
7.	Carriage of material by MT	
<i>,</i> .	Stone 10Km by MT	
	Qty. vide item no.3 = 13.26cum	
	Oty. vide item no.4 = 5.44cum	
	Total = $18.70 \text{cum} @ \text{Rs.} 202.11/\text{m}^3$	3779.00
8	Stone aggregate 40mm average distance 10Kms by MT	
	Qty. vide item no.2 = $1.81$ cum @ $0.89$ /cum = $1.61$ cum@ Rs. $186.73$ /m <sup>3</sup>	300.00
9.	Stone agg average distance 45Kms by Mt	
-	Qty. vide item no.5 = $6.6$ cum@ $0.045$ /cum = $0.29$ cum@ $Rs389.63$ /m <sup>3</sup>	113.00

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10	Sand average distance 40Kms by MT  Qty. vide item no.2 = 1.81cum @ 0.47/cum = 0.85cum  Qty. vide item no.3 = 13.26cum @ 0.38/cum = 5.03cum	
u.	Qty. vide item no.5 = $6.6 \text{ cum} @ 0.023/\text{cum} = 0.15\text{cum}$ Total = $6.03\text{cum} @\text{Rs}.360.48\text{m}^3$	2174.00
	Total Add30% above	60991.00 18297.00
	Grand Total	79288.00

7200/Rm Cost per Meter = Rs. <del>7762.</del>00/RM

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Executive Engineer, B.C.Road Division, Bhaderwah.