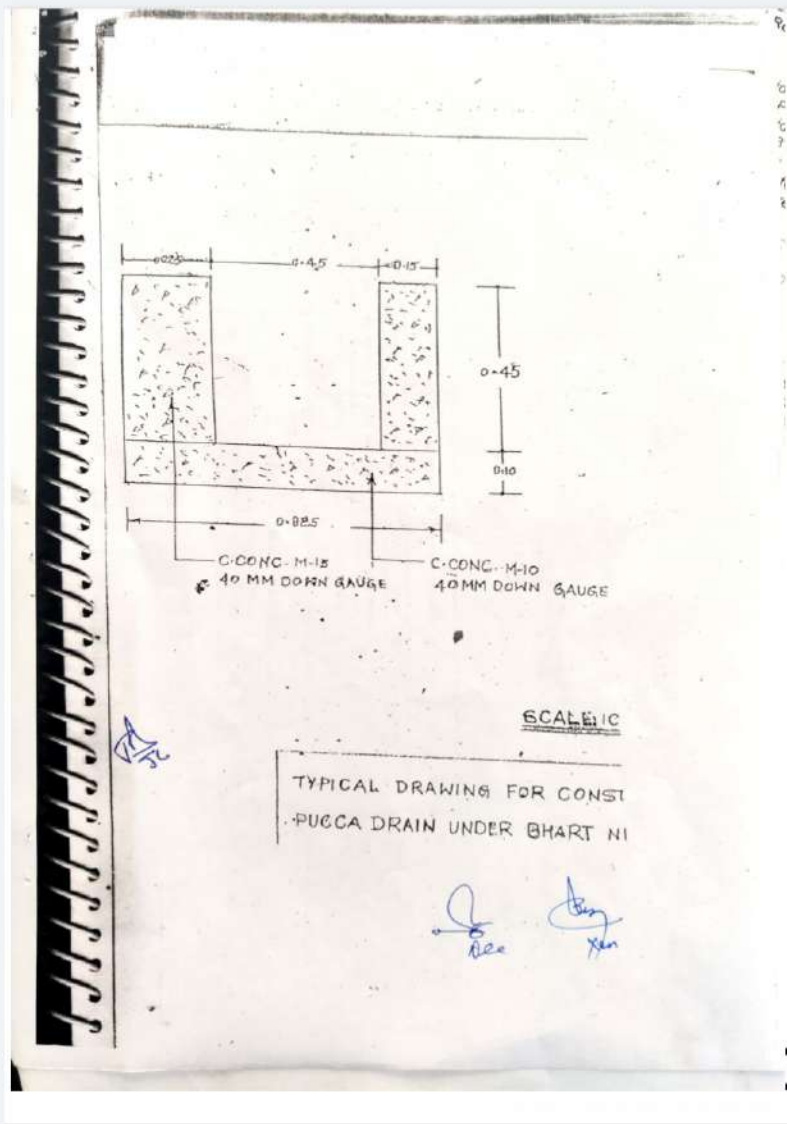




CARRIAGE CHART

Name of Road: Angralla to Gulabgarh

S.NO	PARTICULARS OF ITEMS	UNIT	QUANTITY (MATERIAL)	INCLUDE IN (MATERIAL)	CARRIAGE (HAULAGE CHARGES)			TOTAL IN (RS)	REMARKS				
					BY SURFACE	GRAVEL SURFACE	ON GRAVEL SURFACE						
1	SAND FROM KANTHAN	CUM	50	11	47	44.6x1.7x 355.75	247.86	0	x10.86x1.7x 0.00	987.61	74	km	
2	CRUSHED STONE AGG. FROM BANGOR	CUM	100	11	60	44.8x2.0x 718.40	27	45.40x2.0x 251.60	0	x10.86x2.0x 0.00	1121.00	107	km
3	CEMENT FROM JAMMU	MT	127	127	137	44.6x0x 615.13	27	45.60x 145.80	0	x10.86x 0.00	1014.93	164	km
4	STEEL FROM JAMMU	MT	138	138	137	44.6x0x 615.13	27	45.60x 145.80	0	x10.86x 0.00	1026.93	164	km
5	STONE BOULDER FROM LOCAL NALLAH	CUM	100	11	0	44.8x1.8x 0.00	0	45.40x1.8x 0.00	3	x10.86x1.8x 58.56	170.96	3	km
6	BITUMEN FROM JAMMU	MT	149	136	137	44.6x0x 615.13	27	45.60x 145.80	0	x10.86x 0.00	1044.93	164	km
7	GSB MATERIAL 5mm To 2.36mm FROM NALLAH SUNGRI	CUM	100	11	0	44.8x2.0x 0.00	0	45.40x2.0x 0.00	11	x10.86x2.0x 238.92	349.92	11	km

JUNIOR ENGINEER

[Signature]

ASSISTANT EXECUTIVE ENGINEER
PUGBY SUB DIVISION

[Signature]

EXECUTIVE ENGINEER
PUGBY SUB DIVISION

[Signature]

DETAILED ESTIMATE FOR PROVIDING AND LAYING 20MM THICK PR CARPET

S.No.	Description
1	Providing, laying and rolling of Open Graded Premix Carpet using 20 mm thick composed of 13.2 mm to 5.6 mm agg either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing coarse on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 KN static roller capacity, finished to a required level and grades to be followed by Seal Coat Type B as per Technical Specifications clause 508 :- By Mechanical Means (Type Bitumen S-90) Area :- 1000x3.00= 3000 sqm Add 3% extra for curves= 90 sqm Add for Passing Places 3 Nos/km @ 40 sqm each= 120 sqm Total= 3210 sqm @ Rs 157 /sqm
2	Carriage of Materials by MT from Reasi to site of work incl. loading/ unloading complete for an Avg. distance of 50 Km. Crushed Stone Chippings 13.2mm-5.6mm @ 0.27 Cum/10 sqm Qty. vide item No (1)= 16240 x 0.27/10 cum = 438.480 Cum @ Rs 1121 /cum
5	Carriage of Bitumen by MT from Jammu to site of work incl. loading/ unloading complete as per carriage chart. Qty. vide item No (1) 16240 sqm. @ 1.46 Kg/sqm =23210 Kg= 23.710 MT @ Rs 1044.93 /sqm
Total Cost= Cost per Sqm=	

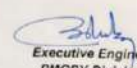
 **Asstt. Executive Engineer**

 **Executive Engineer**
PMGSY Division
Mahore

DETAILED ESTIMATE FOR PROVIDING AND LAYING SEAL COAT.

S.No.	Description	Amount
1	Providing and laying Seal Coat for sealing the voids in bituminous surface laid to the specified levels graded and cross fall using Type-B, as per Technical Specifications clause 510 :- By Mechanical Means (Type B, Bitumen S-90) Area :- 1000x3.00= 3000 sqm Add 3% extra for curves= 90 sqm Add for Passing Places 3 Nos/km @ 40 sqm each= 120 sqm Total= 3210 sqm @ Rs 61 /sqm	195810
2	Carriage of Materials by MT from Reasi to site of work incl. loading/ unloading complete as per Carriage Chart. Crushed sand or Grit as passing 2.36 mm sieve @ 0.06 Cum/10 sqm Qty. vide item No (1)= 16240x 0.06/10 cum.= 97.44 Cum @ Rs 667.61 /cum	65052
5	Carriage of Bitumen by MT from Jammu to site of work incl. loading/ unloading complete as per Carriage Chart. Qty. vide item No (1) 16240 sqm. @ 0.68 Kg/sqm =11043.2 Kg= 11.043 MT @ Rs 1044.93 /MT	11539
Total cost = Cost per Sqm=		272401 84.86

 **Asstt. Executive Engineer**

 **Executive Engineer**
PMGSY Division
Mahore

DETAILED ESTIMATE FOR PROVIDING AND LAYING TACK COAT.

S.No.	Description	Amount
1	Providing and applying Tack Coat Bitumen emulsion (Rs-I) using emulsion distributor at the rate of 0.25 to 0.30 Kg per Sqm on the prepared granular surfaces treated with primer and cleaned with Hydraulic broom as per Technical Specifications clause 503 :- Area :- 1000x3.00= 3000 sqm Add 3% extra for curves= 90 sqm Add for Passing Places 3 Nos @ 40 sqm each= 120 sqm Total= 3210 sqm @ Rs 18 /sqm	57780
5	Carriage of Bitumen by MT from Jammu to site of work incl. loading/ unloading complete as per carriage chart. Qty. vide item No.(1) 3982.5 sqm. @ 0.275 Kg/sqm =1095 Kg= 1.095 MT @ Rs 1044.93 /sqm	1144
	cost for 1 Km	58924
	Cost per Sqm=	18.36



Asstt. Executive Engineer

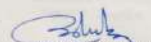

Executive Engineer
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DETAILED ESTIMATE FOR PROVIDING AND LAYING BITUMINOUS MECADAM

S.No.	Description	Amount
1	Providing, laying bituminous mecadam with hot mix plant using crushed aggregates of grading as per Table 550.4 premixed with bituminous binder, transported to site upto a lead of 1000m laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled to achieve the desired compaction as per Technical Specifications clause 504 :- By Mechanical Means (Type Bitumen S-90) Area :- 1000x3.00= 3000 sqm Add 3% extra for curves= 90 sqm Add for Passing Places 3 Nos @ 40 sqm each= 120 sqm Total= 3210 sqm Quantity :- 3210 X 0.050 = 160.5 Cum @ Rs 7867 /cum	1262654
2	Carriage of Materials by MT to site of work incl. loading/ unloading complete as per Carriage Chart. Aggregate :- 25mm to 10mm @ 40% 10mm to 5mm @ 40% 5mm below @ 20% Qty. vide item No.(1)= 199.1 x (145.05/102.5) cum = 281.75 Cum @ Rs 1121 /cum	315842
3	Carriage of Bitumen by MT from Jammu to site of work incl. loading/ unloading complete as per carriage chart. Qty. vide item No (1) 199.1 cum. @ 74.0 Kg/cum =14733.4 Kg= 14.733 MT @ Rs 1044.93 /sqm	15395
	cost for 1 Km	1593890
	Cost per Cum=	9930.78



Asstt. Executive Engineer


Executive Engineer
PMGSY Division
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**DETAILED ESTIMATE FOR PROVIDING AND LAYING OF WET MIX MACADAM
75MM THICK**

S.No.	Description	Amount
1	Providing, laying, spreading and compacting graded stone aggregate Wet Mix macadam including premixing the material at OMC in mechanical mixer (pug mill), carriage of mix material by tipper to site, laying in uniform layers in sub base/base course on a well prepared sub base and compacting with smooth wheel roller of 80-100 KN wt. to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per table 400.11 and 400.12 and technical Specifications clause 406 Quantity :- Area :- 1000x3.00= 3000 sqm Add 3% extra for curves= 90 sqm Add for Passing Places 3 Nos @ 40 sqm each= 120 sqm Total= 3210 sqm Quantity :- 3210 X 0.075 = 240.75 Cum Total - 240.75 Cum @ Rs 1261 /cum	303586
2	Carriage of Materials by MT from Baradan Crusher to site of work incl. loading/ unloading complete for a) Coarse Aggregate 45 mm to 22.4mm @30%= 72.23 Cum a) Coarse Aggregate 22.4 mm to 2.36mm @40%= 96.30 Cum 2.36mm below @30%= 72.23 Cum Total= 247.27 Cum Total loose quantity required @130%= 321.45 Cum @ Rs 1121 /cum	360347
	cost for 1 Km	663932
	Cost per Cum=	2757.77

Asstt. Executive Engineer

Executive Engineer
PMGSY Division
Mahore

DETAILED ESTIMATE FOR PROVIDING AND LAYING PRIMER COAT.

S.No.	Description	Amount
1	Providing and applying Priming Coat Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying Primer @ 0.70-1.0 Kg/Sqm using mechanical means as per Technical Specifications clause 502 (Low Porosity) :- Area - 1000x3.00= 3000 sqm Add 3% extra for curves= 90 sqm Add for Passing Places 3 Nos @ 40 sqm each= 120 sqm Total= 3210 sqm @ Rs 51 /sqm	163710
5	Carriage of Bitumen by MT from Jammu to site of work incl. loading/ unloading complete as per carriage chart. Qty. vide item No.(1) 3982.5 sqm @ 0.85 Kg/sqm =3385 Kg= 3.385 MT @ RS 1044.93 /MT	3537
	cost for 1 Km	167247
	Cost per Sqm=	52.10

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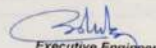
Executive Engineer
PMGSY Division
Mahore

Detailed Estimate for the construction of Crated wall

S.No.	Description	Amount
1	Earth work in excavation for structures as per drawing and technical specifications clause 305.1 including setting out construction of shoring and bracing, removal of stumps and other deleterious materials and disposal up to a lead of 50 Mtr. Dressing of sides and bottoms and back filling in trenches with excavated suitable material. Ordinary Soil 70%, Ordinary Rock 20%, Hard Rock 10% 24 m x 2.25sqm= 54 cum @ Rs 363 /cum	19602
2	Providing/Laying of boulder apron laid in wire crates with 4mm dia GI wire conforming to IS 280 and IS 4826 in 100mm mesh (woven diagonally) including 10% extra for laps and joints laid with stone boulders weighing not less than 25kg each as per drawing and technical specification clause 1301 (incl cost of crates) Wall 4 x 6.0 x 1.20 x 1.20= 34.56 cum @ Rs 1747 /cum	60376
3	Carriage of materials by M.T. from source to site of work incl. loading/unloading complete. c) Carriage of stone Qty. Vide Item No. (2) = 34.56 cum @ Rs 170.95 /cum d) Carriage of Steel from Jammu Qty. Vide Item No. (2) 4 crates @ 0.08 MT/crate= 0.32 MT @ Rs 1036.93 /MT	35836 332
	Total cost	116146
	Cost per running metre	4839



Asstt. Executive Engineer


Executive Engineer
PMGSY Division
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DETAILED ESTIMATE FOR PROVIDING AND LAYING OF GRANULAR SUB-BASE WITH WELL GRADED MATERIAL (TABLE 400.1) BY MIX IN PLACE METHOD

S.No.	Description	Amount
1	Construction of granular sub-base by providing well graded material spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMG, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specifications clause 401 for grading one material :- Quantity :- Area :- 1000x3.3= 3300 sqm Add 3% extra for curves= 99 sqm Add for Passing Places 3 Nos @ 40 sqm each= 120 sqm Total= 3519 sqm Volume=3519X0.300= 1055.7 Cum Total= 1055.7 Cum @ Rs 839 /cum	596400 885732
2	Carriage of Materials by MT from local nallah incl. loading/ unloading complete for distance as per carriage Chart. Well graded granular sub-base material as per table 400.1 53 mm to 9.50mm @50%= 527.85 Cum 9.5mm to 2.36mm @20%= 211.14 Cum 2.36mm below @30%= 316.71 Cum Total= 1055.7 Cum Total loose quantity required @128@= 1351.3 Cum @ Rs 349.92 /cum	472845
	cost for 1 Km	1358578
	Cost per Cum=	1286.90



Asstt. Executive Engineer

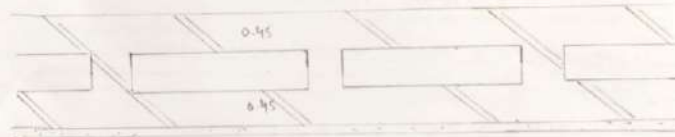
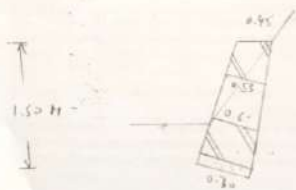

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c)	Carriage of stone agg 167 kms from Saradan Crusher	
Qty. Vide Item No. (2)	0.70 cum x 0.924/cum	= 0.64 cum
(5)	0.225 cum @ 0.96/cum	= 0.21 cum
	Total 0.85 cum	@ 112,400/Cum
		952.00
c)	Carriage of RR Masonry/stone av. Distance of kms from site	
Qty. Vide Item No. (3)	= 6.56 cum	
(4)	= 2.06 cum	
	Total 8.62 cum	@ 17045/Cum
		1473.00
d)	Carriage of Cement av. Distance of 167 kms from Jammu	
Qty. Vide Item No. (2)	0.70 cum @ 0.250 MT/cum	= 0.1755 MT
(3)	6.56 cum @ 0.092 MT/cum	= 0.604 MT
(5)	0.225 cum @ 0.33 MT/cum	= 0.074 MT
	Total 0.853 MT	@ 101791/Cum
		845.00
		Total = 4024.00
Cost per one RM Length = 4024.00		

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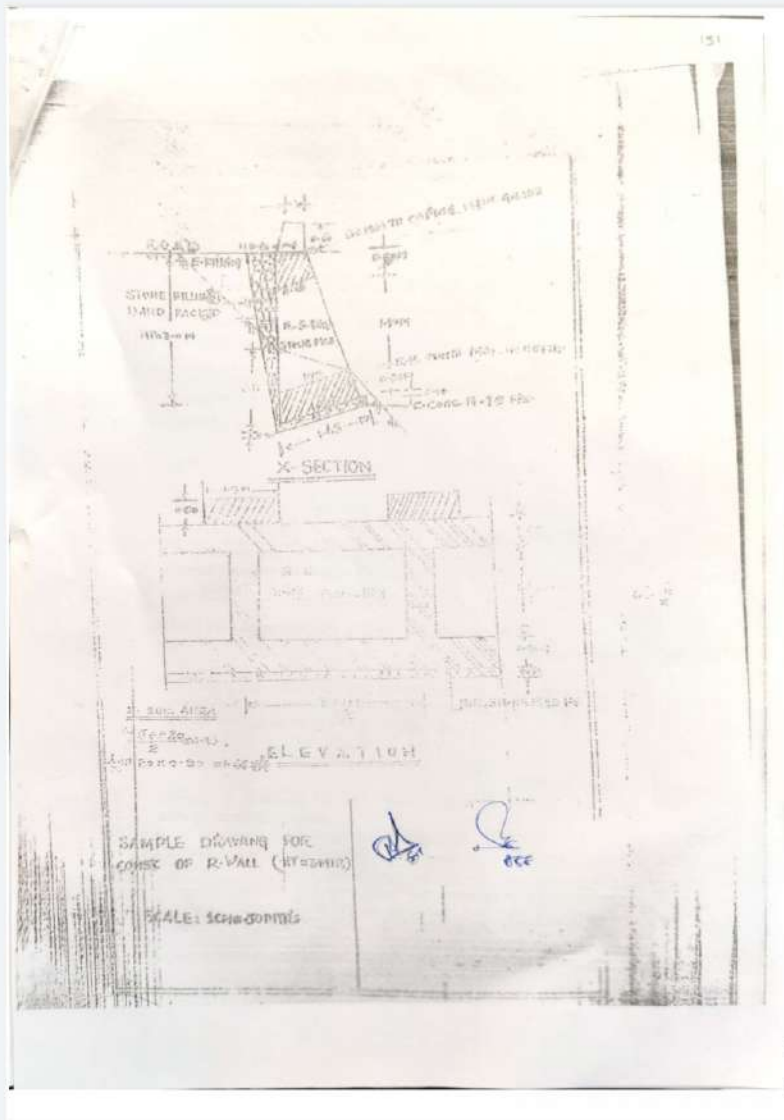
TYPICAL DRAWING FOR CONST OF B/WALL OF AV
HEIGHT = 1.50 MT



1/2

0.50

1/2



DETAILED ESTIMATE FOR THE CONSTRUCTION OF BREAST WALL 1.8 M. HEIGHT		
No.	Description	Amount
1	Earth work in excavation for structures as per drawing and technical specifications clause 305.1 including setting out construction of shoring and bracing, removal of stumps and other deleterious materials and disposal up to a lead of 50 Mtr. Dressing of sides and bottoms and back filling in trenches with excavated suitable material. Ordinary Soil 70%, Ordinary Rock 20%, Hard Rock 10% $1 \times 10.00 \times 0.80 \times 1.60 = 12.80 \text{ Cum}$ @363.00/Cum	4446.00
2	Providing/Laying for plain/reinforced concrete in open foundations complete as per drawing and technical specifications clause 802, 803, 1202 and 1203 PCC Grade M-10 (1:3:6) nominal mix. $1 \times 10.00 \times 0.70 \times 0.10 = 0.70 \text{ M}^3$ $T = 0.70 \text{ M}^3$ @3939.00/Cum	2757.00
3	Stone Masonry in cement mortar for sub-structure complete as per drawing and technical specifications clause 71 (2:7:04, 1202, 1204) in cement mortar 1:5 Bottom Band $1 \times 10 \times \frac{(0.60 + 0.70)}{2} \times 0.50 = 3.90 \text{ M}^3$ Top Band $1 \times 10 \times \frac{(0.45 + 0.53)}{2} \times 0.4 = 2.20 \text{ M}^3$ V.B. $4 \times 0.45 \times \frac{(0.60 + 0.53)}{2} \times 0.45 = 0.46 \text{ M}^3$ = 6.56 Cum @3417.10/Cum	22416.00
4	R.R. Masonry laid dry for sub-structure complete as per drawing and technical specifications clause 702, 704, 1202 & 1204 $1 \times 10 \times \frac{(0.45 + 0.70)}{2} \times 1.50 = 8.62 \text{ Cum}$ Deduct Pacca Masonry Qty. vide item No. (3) (-) = 6.56 M ³ Net = 2.06 M ³ @2365.51/Cum	4872.00
5	Providing/Laying Plain/Reinforced cement concrete in substructure as per drawing and technical specification clauses 802, 804, 805, 806, 807, 1202 & 1204 in P.C.C. grade M-20 (1:2:4) nominal mix. $1 \times 10 \times 0.45 \times 0.05 = 0.225 \text{ Cum}$ $T = 0.225 \text{ Cum}$ @5104.00/Cum	1148.00
6	Carriage of materials by M.T. from source to site of work incl. loading/unloading complete. a) Carriage of sand 1 km from Bye Kanthan Qty. Vide item No. (2) $0.70 \text{ cum} \times 0.462/\text{cum} = 0.32 \text{ cum}$ $(3) 6.56 \text{ cum} \times 0.35/\text{cum} = 2.30 \text{ cum}$ $(4) 0.225 \text{ cum} \times 0.45/\text{cum} = 0.10 \text{ cum}$ Total 2.72 cum @ 674.61/Cum	1815.00

DETAILED ESTIMATE FOR THE CONSTRUCTION OF SEMI PUGGA R/WALL OF AV.

HEIGHT 3.0M		Amount
S.No.	Description	
1	Earth work in excavation for structures as per drawing and technical specifications clause 305.1 including setting out construction of shoring and bracing, removal of stumps and other deleterious materials and disposal up to a lead of 50 Mtr. Dressing of sides and bottoms and back filling in trenches with excavated suitable material. Ordinary Soil 70%, Ordinary Rock 20%, Hard Rock 10% $1 \times 10.00 \times 1.457^3$ (As per Drawing) = 14.67 M ³ @ 363.00/Cum	5325.00
2	Providing/Laying for plain/reinforced concrete in open foundations complete as per drawing and technical specifications clause 802, 803, 1202 and 1203 P.O.C. Grade M-10 (1:3:6) nominal mix. $1 \times 10.00 \times 1.45 \times 0.10 = 1.45 \text{ M}^3$ @ 3939.00/Cum	5712.00
3	Polygonal Rubble masonry brought to course in 1 cement : 5 fine sand mortar with nallah stone in substructure, incl. leveling up at specified levels with M-5 nominal Mix (size of stone agg. 20mm nominal) conc. Incl. cost of through/bond stones. Bottom Band $1 \times 10 \times \frac{(1.20 + 1.35)}{2} \times 0.60 = 7.65 \text{ M}^3$ Top Band $1 \times 10 \times \frac{(0.75 + 0.60)}{2} \times 0.60 = 4.05 \text{ M}^3$ V.B. $4 \times 0.60 \times \frac{(0.75 + 1.20)}{2} \times 1.80 = 4.21 \text{ M}^3$ 15.91 M³ - (A) Parapets - $5 \times 1.50 \times \frac{(0.60 + 0.45)}{2} \times 0.60 = 2.36 \text{ M}^3$ T = 18.27 M³ @ 3417.10/Cum	62430.00
4	Polygonal/Random Rubble masonry brought to course laid dry with nallah stone in sub-structure inc. cost of through/bond stones. $1 \times 10.00 \times \frac{(1.35 + 0.60)}{2} \times 3.0 = 29.25 \text{ M}^3$ Deduct Pucca Masonry Qty. vide item No. (3) (A) = 15.91 M ³ Net = 13.34 M³ @ 2365.51/Cum	31556.00
5	Providing/Laying Plain/Reinforced cement concrete in substructure as per drawing and technical specification clauses 802, 804, 805, 806, 807, 1202 & 1204 in P.O.C. grade M-20 (1:2:4) nominal mix. $1 \times 10.00 \times 0.80 \times 0.05 = 0.40 \text{ M}^3$ @ 4851.00/Cum	1458.00
6	Back filling with stones behind abutment, wing walls and return walls complete as per drawing and technical specification clause 1204.3.5 $1 \times 10.00 \times \frac{(0.60 + 0.15)}{2} \times 3.00 = 11.25 \text{ M}^3$ @ 677.00/Cum	7618.00

Carriage of materials by MT from source to site of 40 x 10 loading-unloading complete			
a) Carriage of sand 1/4 km			
Qty. Vide Item No. (2)	1.45 cum x 0.462/cum	= 0.66 cum	
	(3) 18.27 cum x 0.35/cum	= 6.39 cum	
	(4) 0.30 cum @ 0.448/cum	= 0.134 cum	
	Total	7.18 cum	
	@ 667.24/Cum		4793.00
b) Carriage of stone agg 1/2 km			
Qty. Vide Item No. (2)	1.45 cum x 0.924/cum	= 1.33 cum	
	(5) 0.30 cum @ 0.896/cum	= 0.26 cum	
	Total	1.59 cum	
	@ 1124.09/Cum		1782.00
c) Carriage of stone for an av. Distance of 3 kms			
Qty. Vide Item No. (3)	= 18.27 cum		
	(4) = 13.24 cum		
	(6) = 11.25 cum		
	Total 42.86 cum @ 1700.57 cum		7326.00
d) Carriage of Cement av. Distance of 1/4 km from Jammu			
Qty. Vide Item No. (2)	1.45 cum @ 0.250 MT/cum = 0.362 MT		
	(3) 18.27 cum @ 0.092 MT/cum = 1.68 MT		
	(4) 0.30 cum @ 0.33 MT/cum = 0.09 MT		
	Total 2.141 MT		2171.00
	@ 1014.93/Cum		
Total:			130167.00
Net Total:-			130167.00
Cost per one RM Length:-			13017.00

Assistant Executive Engineer
PMGSY Sub-Division
Mahore

Executive Engineer
PMGSY Division
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KM 1st Extention of Angralla to Gulabgarh upto bridge

RD	Length	X-Area	T-Area	M-Area	Qty.
0	0	0	0	0	0
25	25	27.13	27.13	13.565	339.125
50	25	24.13	51.26	25.63	640.75
75	25	24.06	48.19	24.095	602.375
100	25	55.95	80.01	40.005	1000.125
125	25	18.91	74.86	37.43	935.75
150	25	26.94	45.85	22.925	573.125
175	25	35.21	62.15	31.075	776.875
200	25	59.91	95.12	47.56	1189
225	25	20.46	80.37	40.185	1004.625
250	25	22.74	43.2	21.6	540
275	25	22.38	45.12	22.56	564
300	25	105.61	127.99	63.995	1599.875
325	25	48.23	153.84	76.92	1923
350	25	25.38	73.61	36.805	920.125
375	25	33.36	58.74	29.37	734.25
400	25	27.62	60.98	30.49	762.25
425	25	66.06	93.68	46.84	1171
450	25	36.89	102.95	51.475	1286.875
475	25	21.82	58.71	29.355	733.875
500	25	23.62	45.44	22.72	568
525	25	52.71	76.33	38.165	954.125
550	25	59.48	112.19	56.095	1402.375
575	25	14.26	73.74	36.87	921.75
600	25	22.42	36.68	18.34	458.5
625	25	14.82	37.24	18.62	465.5
650	25	20.11	34.93	17.465	436.625
675	25	34.97	55.08	27.54	688.5
700	25	31.67	66.64	33.32	833
725	25	15.66	47.33	23.665	591.625
750	25	17.28	32.94	16.47	411.75
775	25	17.75	35.03	17.515	437.875
800	25	22.37	40.12	20.06	501.5
825	25	33.91	56.28	28.14	703.5
850	25	39.38	73.29	36.645	916.125
875	25	46.1	85.48	42.74	1068.5
900	25	71.16	117.26	58.63	1465.75
925	25	40.72	111.88	55.94	1398.5
950	25	82.87	123.59	61.795	1544.875
975	25	68.97	151.84	75.92	1898
1000	25	22.38	91.35	45.675	1141.875
Total					36105.25

2/2

Dec

Ken

KM 2nd Extention of Angralla to Gulabgarh upto bridge

RD	Length	X-Area	T-Area	M-Area	Qty.
0	0	22.38	0	0	0
25	25	49.32	71.7	35.85	896.25
50	25	39.6	88.92	44.46	1111.5
75	25	56.02	95.62	47.81	1195.25
100	25	56.44	112.46	56.23	1405.75
125	25	62.46	118.9	59.45	1486.25
150	25	54.23	116.69	58.345	1458.625
175	25	107.8	162.03	81.015	2025.375
200	25	89.66	197.46	98.73	2468.25
225	25	41.01	130.67	65.335	1633.375
250	25	41.33	82.34	41.17	1029.25
275	25	47.16	88.49	44.245	1106.125
300	25	46.83	93.99	46.995	1174.875
325	25	58.69	105.52	52.76	1319
350	25	46.2	104.89	52.445	1311.125
375	25	47.06	93.26	46.63	1165.75
400	25	47.6	94.66	47.33	1183.25
425	25	43.44	91.04	45.52	1138
450	25	55.14	98.58	49.29	1232.25
475	25	60.01	115.15	57.575	1439.375
500	25	58.39	118.4	59.2	1480
Total					27259.625

2/2

Dec

Ken

Location Chart				
S.No.	Chainage	R/Wall 3.50 m	R/Wall 3 m	Crate wall
1	0-0	20	30	
2	100-150	30		
3	200-250			70
4	250-350	30	50	
5	350-400		40	
6	450-550		30	
7	600-775	30	20	
8	900-1000		20	80
9	1100-1200	40	30	
10	1250-1350	40	10	
11	1400-1500	30	40	

18

Dec

Key

Extension of Angrailla to gulabgarh road upto bridge

S.No.	Chainage	CD Work
1	100-125	1.5M RCC
2	250-275	6.0 m C/way
3	375-400	6.0 m C/way
4	625-650	1.5M RCC
5	800-825	1.5M RCC
6	1075-1100	6.0 m C/way
7	1325-1350	6.0 m C/way
8	1450-1475	6.0 m C/way

18

Dec

Key

GENERAL ABSTRACT OF COST

Name of Road: Extension of Angralla to Gulabgarh upto bridge
Length (in Km): 1.500

S.No	Description of Item	Unit	Quantity	Rate (Rs)	Amount (in Lacs)
1	2	3	4	5	6
PART A (STAGE-1st)					
Earthwork in excavation in hilly terrain					
a.	All kinds of soil	Cum	50692.0	135	58.30
b.	Ordinary rock not requiring blasting	Cum	6337.0	201	12.74
c.	Hard Rock	Cum	6337.0	343	21.74
					92.77
2	Cross Drainage works:-				
a.	Construction of 1.5m RCC Culvert	No.	3	540848	16.23
b.	Construction of 6M scupper	No.	4	522076	20.88
					37.11
3	Protection Works:-				
a.	Semi Pucca R/Wall Av. Height 3.0 m	Rmt	280	13017	36.45
b.	Semi Pucca R/Wall Av. Height 2.55 m	Rmt	300	4075	12.23
c.	Constructed of crated wall	Rmt	150	4830	7.26
					55.92
				Total Cost	185.80
				Cost per km	123.86
PART B (STAGE 2nd)					
1	Pavement :-				
a.	Providing and Laying GSB 200mm thick.	Cum	10.55.7	1286.90	13.58
b.	Providing and Laying WMM 75mm thick.	Cum	240.75	2757.77	6.64
c.	Providing and applying Primer Coat.	Sqm	4815	52.10	2.51
d.	Providing and applying Tack Coat.	Sqm	4815	18.36	0.88
f.	Providing and Laying OGPC.	Sqm	4815	317.84	15.30
g.	Providing and Laying Seal Coat.	Sqm	4815	84.86	4.09
h.	Making of Earthen Shoulders.	Cum	3999.76	280.00	11.20
				T=	54.20
2	Drain:-				
a.	Construction of Concrete Drain	Rmt	300	1628.20	4.88
				T=	4.88
3	Providing & Fixing of PMGSY Boards:-				
a.	P/F of Kilometer Stones Ordinary	No.	3	1953	0.06
b.	P/F of 200 Mtrs Stones precast	No.	12	463	0.06

1	Providing & Fixing of Retro reflectorised, mandatory & informatory sign as IRC.67 made of encapsulated lens type reflective sheeting vide clause 1701.2.3 fixed over aluminium sheeting 1.5mm thick supported on mild steel angle iron post 75*75*6 mm firmly to the ground by the means of properly design foundation with M15 Grade cement concrete 45*45*600mm, 600mm below the ground level as per drawing & technical specification clause 801.	No.	8	1492	0.12
				T=	0.23
				Total Cost	59.31
				Cost/km =	39.54
Maintenance part					
4	Year			% Cost	Cost(in Lacs)
	1st Year			1.2	0.71
	2nd Year			1.8	1.07
	3th Year			2.4	1.42
	4th Year			3	1.78
	5th Year			3.6	2.14
					7.12
	Total Maintenance Cost =				
	Total Cost(Construction Part -B + Maintenance Cost)				
	Grand total(Construction Part-A +Construction Part-B + Maintenance Cost)				
	252.23				

Asstt. Executive Engineer
PMGSY Division
Mahore

Executive Engineer
PMGSY Division
Mahore