

Name of Road :- Menarkuwan to Malbigra

Schedule XLV-Form No. 134

Executive Engineer, R.W. D. Worka DIVISION

Daniyawan SUB-DIVISION

MB No - 7650

Measurement Book

Ranjit

Particulars	Details of actual measurement				Contents of area	
	No.	L.	B.	D.		
Item ② Construction of curb						
grade & weather side						
1/2 dia - do - do etc						
BT -	2	10	30.00	1.195	0.30	902.50 m ³
	2	10	30.00	1.195	0.30	902.50 "
	2	1	30.00	1.195	0.30	190.95 "
PK -	2	3	30.00	0.50	0.30	87.00 "
	2	1	30.00	0.50	0.30	6.00 "
						458.95 m ³
Item ③ Construction of base						
Grading by Prov						
well graded material						
do - do - do etc						
	3	5.32	1.33	0.175		3.71 m ³
	2	6.34	1.29	0.175		2.86 "
	4	5.85	1.34	0.175		5.49 "
	3	5.40	1.28	0.175		3.65 "
	6	5.29	1.42	0.175		7.89 "
	4	6.15	1.35	0.175		5.81 "
						29.41 m ³
Item ④ Prov. Laying, spreading & compacting stone aggregate of specifications to U.M.G. 1 - do - etc						
	3	7.70	1.90	0.075		3.29 m ³

Continuation

OTO

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$BF = 3.29 m^3$
Item (4) Contd (HBM Gr. II)					
	2	9.90	1.90	0.075	2.622 "
	4	8.50	1.90	0.075	4.845 "
	3	7.90	1.90	0.075	3.777 "
	6	7.70	2.10	0.075	7.276 "
	4	8.90	2.00	0.075	5.34 "
					26.75 m ³
Item (5) Prov. laying, spreading & compacting stone aggregate of specified sizes to WBM 40 mm. etc.					
	1	30.00	4.50	3.75	9.281 m ³
	10	30.00	3.75	0.075	84.375 "
	1	30.00	3.75	4.50	9.281 "
	1	20.00	3.90	3.75	5.738 "
	8	30.00	3.75	0.075	67.50 "
	1	10.00	3.75	0.075	2.812 "
					178.987 m ³
					Limit to 178.959 m ³
Item (6) Prov. supplying prime coat with bitumen emulsion (55%) etc.					
	1	30.00	4.50	3.75	123.75 m ²
	10	30.00	3.75		1125.00 "
					1248.75 m ²

Continuation

PTD

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item ⑥ Contd (Primes coat)					1218.75 m ²
	1	30.00	3.75	4.50	123.75 "
	1	20.00	3.90	3.75	76.50 "
	8	30.00	3.75		900.00 "
	1	10.00	3.75		37.50 "
					2386.50 m ²
					Limit to 2386.125 m ²
Item ⑦ Prov. & applying tack coat with bitumen emulsion - do - do - etc.					Rly same as item ⑥ = 2386.125 m ²

Item ⑧ Prov. laying & rolling of close graded premix base facing material of 20 mm thick - do - etc.					Rly same as item ⑥ = 2386.125 m ²
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Item ⑨ Prov. & applying tack coat with bitumen emulsion (RS-1) - do - etc.					
	1	30.00	4.50	3.75	123.75 m ²
	10	30.00	3.75		1125.00 "
	1	30.00	3.75	4.50	123.75 "
	1	20.00	3.90	3.75	76.50 "
					401449.00 m ²

Continuation

PTD

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					1449.00 m ²
Item (9) Contd (Pack Cont)					
		8	30.00	3.75	900.00 "
		1	10.00	3.75	37.50 "
					2386.50 m ²
					Limit to 2386.125 m ²
Item (10) Prov. Slaying sand					
					with 100-120 TPH batch
					Type H.M.P. do-etc
					Area is the item (9) = 2386.125 m ²
					Qty = 2386.125 m ² × 0.025 = 59.65 m ³
Item (11) Construction of base					
					lean cement concrete
					sub-base - do - etc
		1	11.00	3.75	0.100 = 4.125 m ³
Item (12) Construction of panel					
					concrete, P.C.C. base -
					ment, m. 2040 - do - etc
In fill malbigha					
		1	30.00	4.15	3.75 × 0.10 = 11.85 m ³
		2	30.00	3.75	0.100 = 22.50 "
		1	90.00	3.75	0.100 = 7.50 "

41.85 m³
 Limit to 41.663 m³
 Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (13) R.C.C. m. 15 grade					
km. stone do- etc.					
(i) km. stone					2.00 nos.
(ii) 200M stone					3.00 nos.
Item (14) Prov. Resecting disc					
etc. & Place etc.					
- fig. for retro-ref					
- lecter sign do- etc.					
$2 \times 1.20 \times 0.80 = 1.92 m^2$					
Item (15) Prov. Reflecting retro					
reflector & cautionary					
mandatory & geometry					
sign do- do- etc.					
(i) 600 mm eq. triangle					30.00 nos.
(ii) 600 mm circular					2.00 nos.
(iii) 600 x 450 mm rectangular					2.00 nos.
(iv) 900 mm side octagon					2.00 nos.
Item (16) R.C.C. m. 15 grade					
boundary pil. do- etc.					
					Qty = 14.00 nos.
Item (17) Printing new letter					
figures do- etc.					
$44 \times 2.00 = 88.00$ Per ft.					

Continuation

PTD

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item ⑩ Planting of trees by the road sides - do etc.					
					Qty = 62.00 nos.
Item ⑪ Prov. & laying of hot applied thermoplastic compound - do etc.					
B.T - 2 x 10 x 30.00 x 0.100 =					60.00 m ²
2 x 10 x 30.00 x 0.100 =					60.00 "
2 x 1 x 30.00 x 0.100 =					6.00 "
					126.00 m ²
Pedestrian Crossing					
					4 x 6.00 x 0.500 x 2 = 24.00 m ²
New Lorry Partition					
					2 x 3 x 30.00 x 0.100 = 18.00 m ²
					2 x 1 x 20.00 x 0.100 = 4.00 "
					22.00 m ²
Item ⑫ Prov. & fixing of physical mens by infirmatory board with logs - do etc.					
					Qty = 2.00 Nos.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (21)	3 nos	4	2.50		
	Laying of R.C.C. pipe duct 300mm dia, across the road etc.				
	$3 \text{ nos} \times 4 \times 2.50 = 30.00 \text{ Ran}$				
Item (22)	2	4.80	0.40	0.60	
	Brick masonry work in c.m. (1:3) in parapet				
	--- do --- do --- etc.				
	$2 \times 4.80 \times 0.40 \times 0.60 = 2.30 \text{ m}^3$				
Item (23)	4	4.80	0.60		
	Plastering with C.M. (1:3) in sub structure				
	--- do --- do --- etc.				
Side face	4	4.80	0.60		11.52 m^2
Top	2	4.80	0.40		3.84 m^2
Front face	4	0.40	0.60		0.96 m^2
					16.32 m^2
Item (24)	Painting two coats including primer after filling the surface with synthetic enamel paint				
	--- do --- do --- etc.				
	Qty side item (23) = 16.32 m^2				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (25) Dismantling of existing cement concrete ---do---do---etc.					
					$1 \times 3.50 \times 3.38 \times 0.15 = 1.77 \text{ m}^3$
Item (26) Dismantling of existing cement mortar ---do---do---etc.					
					$2 \times 8.00 \times 0.805 \times 3.00 = 39.60 \text{ m}^3$
Item (27) Removing all types of Hume pipes above 600 mm to 900 mm dia HP ---do---do---etc.					
					$3 \times 5.00 = 15.00 \text{ Rm.}$
					RCC slab curbed $11 \times 2.0 \text{ m span} \times 1.5 \text{ m}$
Item (28) E/W in excavation for structure ---do---do---etc.					
Retortment					$2 \times 9.30 \times 2.233 \times 1.800 = 74.76 \text{ m}^3$
Retortment wall					$4 \times 1.767 \times 2.03 \times 1.800 = 25.826 \text{ m}^3$
Floor under D-slab					$1 \times 7.70 \times 0.900 \times 0.150 = 1.0385 \text{ m}^3$
					100.972 m^3
Item (29) Sand filling in foundation trenches ---do---do---etc.					

Continuation

PTD

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (29) Contd (Sand filling)					
	2	9.200	2.233	0.100	4.159 m ³
	4	1.767	2.03	0.100	1.435 "
	1	7.700	1.695	0.100	1.351 "
					6.839 m ³
Item (30) P.C.C. m. 15 (1:2:5)					
in open foundation etc					
Apartment	2	9.200	2.233	0.200	8.307 m ³
Return wall	4	1.767	2.03	0.200	2.87 "
Choo under	1	7.70	1.704	0.150	2.003 "
cut off wall	2	1.40	1.00	0.200	0.56 "
					13.34 m ³
Item (31) P/R.C.C. m. 20 in open					
foundation - do - etc					
Apartment	2	8.40	1.683	1.60	45.239 m ³
Return wall	4	1.767	1.480	1.600	16.737 "
Cut off wall	2	1.20	0.583	1.600	2.25 "
					64.926 m ³
Item (32) P/R.C.C. m. 20 in					
Sub structure etc					
Apartment	2	7.50	2.917	1.300	17.881 m ³
Return wall	4	1.984	0.665	1.500	9.391 "
					26.272 m ³
					Limit to 26.261 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (33) S/F & blading M/S D					
bar reinforcement -					
do - do - do - etc					
Asmtment - 8mm					
Main bars - $2 \times 2 \times 4 \times 7.50 =$					120.00 Km
Stirrups - $2 \times 41 \times 1.608 =$					131.856 "
Dist work					
Vertical - $2 \times 2 \times 41 \times 0.568 =$					89.872 "
Horizontal - $2 \times 2 \times 2 \times 7.50 =$					60.00 "
Return work					
long - $4 \times 3 \times 2.200 =$					86.64 "
Cross - $4 \times 16 \times 0.398 =$					90.48 "
					418.848 Km
I					
e.o. $600 \text{ kg/Rm} = 179.5392 \text{ kg}$					
Deck slab - 12mm dia					
Main bar - $88 \times 2.56 = 225.28 \text{ Km}$					
2 bar - $10 \times 7.50 = 75.00 "$					
" - $10 \times 7.50 = 75.00 "$					
					375.28 Km
II					
e.o. $89 \text{ kg/m} = 333.9992 \text{ kg}$					
Extra - $27 \times 2.908 = 78.516 \text{ Km}$					
Long - $10 \times 7.50 = 75.00 "$					
					153.516 Km
e.o. $62 \text{ kg/Rm} = 95.17992 \text{ kg}$					
Area of laps & wastage = $4.758996 "$					
III					
					99.938916 kg
(I+II+III) \rightarrow Total = 612.92756 kg					
					e.o. 0.613 MT

Continuation

ATP

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					Rs 4729.072=00
Item (37) Contd (Reciprocating)					
30.00 Km. wide T.M.B.P. (24)					
					Rs 966=87/Km — Rs 29006=00
(38) Dismantling of axis					
- ting cement concrete					
- do - do - do - etc.					
1.77 m ³ wide T.M.B. Page (24)					
					Rs 563=171. m ³ — Rs 997=00
(39) Dismantling of axis					
- ting cement mortar					
- do - do - do - etc.					
39.60 m ³ wide T.M.B. Page (24)					
					Rs 248=74/m ³ — Rs 9849=00
(40) Removing of d.p.c. of					
H/P above 600mm to					
900mm dig - do - etc.					
15.00 Km. wide T.M.B.P. (24)					
					Rs 336=348/Km — Rs 5045=00
					Rs 4764.969=00
Add 18% G.O.T (+) Rs					857694=00
Add 1% L. cess (+) Rs					47650=00
Add 5% surcharge as					
per agreement (+) Rs					63949=00
					Rs 5733562=00
Less 0.10% Below					
as per agreement (-) Rs					5734=00
					Rs 5727828=00

Continuation

