

Jhatua Hat to Misjawa PMBSY Road to Misjawa
Hard No-13 Kanwah tola

Schedule XLV-Form No. 134

Executive Engineer
RWD (W) Divn. Triveniganj

DIVISION

Triveniganj

SUB-DIVISION

ABHISHEK ~~KUMAR~~ SINGH No- 1151

MEASUREMENT BOOK

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Name of work:-					Const. of
					Road from Jhatua
					Hall To mirgawa
					PMWSY Road TO
					mirgawa ward No-13
					Kanwahi Tola,
Agency:-					Abhishek Kr Singh
					Aradh. Bhojpur
Agreement No:-					10/SBD/MMWSY/
					2024-2025
Date of start:-					21-10-2024
Date of completion:-					20-10-2025

Record of entry:-

1) Granular subbase with well graded material

Re Measurement

15M x	$\frac{7.20 + 5.60 + 3.70}{3}$	x 0.20 =	16.50 m ³
3 x 30 x	$\frac{3.80 + 3.75 + 3.65}{3}$	x 0.20 =	68.40 m ³
3 x 30 x	$\frac{3.25 + 3.60 + 3.5}{3}$	x 0.20 =	62.10 m ³
2 x 30 x	$\frac{3.40 + 3.60}{2}$	x 0.20 =	42.0 m ³
3 x 30 x	$\frac{3.80 + 3.60}{2}$	x 0.20 =	66.60 m ³
1 x 30 x	$\frac{4.25 + 3.75}{2}$	x 0.20 =	24.0 m ³
Curve - 15M x	$\frac{3.75 + 5.40 + 3.75}{3}$	x 0.20 =	12.90 m ³
15M x	$\frac{3.80 + 3.75}{2}$	x 0.20 =	11.33 m ³

Continuation

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Curve - $15 \times \frac{(6.20 + 5.5 + 3.75)}{3} \times 0.20$					$= 15.45 \text{ m}^3$
$30 \text{ m} \times \frac{(3.70 + 3.80)}{2} \times 0.20$					$= 22.50 \text{ m}^3$
$23 \text{ m} \times \frac{(3.70 + 3.80)}{2} \times 0.20$					$= 17.25 \text{ m}^3$
					Total = 359.03 m^3

2) Const. of man wall

Re Measurement

$15 \text{ m} \times \frac{(7.20 + 5.60 + 3.7)}{3} \times 0.075$					$= 6.19 \text{ m}^3$
$3 \times 30 \times \frac{(3.80 + 3.95 + 3.65)}{3} \times 0.075$					$= 25.65 \text{ m}^3$
$3 \times 30 \times \frac{(3.25 + 3.6 + 3.50)}{3} \times 0.075$					$= 23.29 \text{ m}^3$
$2 \times 30 \times \frac{(3.40 + 3.60)}{2} \times 0.075$					$= 15.75 \text{ m}^3$
$3 \times 30 \times \frac{(3.80 + 3.60)}{2} \times 0.075$					$= 24.98 \text{ m}^3$
$1 \times 30 \times \frac{(4.25 + 3.75)}{2} \times 0.075$					$= 9.00 \text{ m}^3$

Curve - $15 \text{ m} \times \frac{(3.75 + 5.40 + 3.75)}{3} \times 0.075$					$= 4.88 \text{ m}^3$
$15 \text{ m} \times \frac{(3.80 + 3.75)}{2} \times 0.075$					$= 4.25 \text{ m}^3$
Curve - $15 \times \frac{(6.20 + 5.5 + 3.75)}{3} \times 0.075$					$= 5.79 \text{ m}^3$
$30 \text{ m} \times \frac{(3.70 + 3.80)}{2} \times 0.075$					$= 8.44 \text{ m}^3$
$1 \times 5.0 \text{ m} \times 3.50 \times 0.075$					$= 1.31 \text{ m}^3$
					Total = 129.53 m^3

3)

3) Providing and applying
Prime coat (5%)

$1 \times 15 \text{ m} \times \frac{(7.20 + 5.60 + 3.7)}{3}$					$= 82.50 \text{ m}^2$
$3 \times 30 \text{ m} \times \frac{(3.80 + 3.95 + 3.65)}{3}$					$= 342.0 \text{ m}^2$
$3 \times 30 \text{ m} \times \frac{(3.25 + 3.60 + 3.50)}{3}$					$= 310.50 \text{ m}^2$

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
	2	30M	$(3.40+3.60)/2$		$= 210.0M^2$
	3	30M	$(3.80+3.60)/2$		$= 333.0M^2$
	1	30M	$(4.05+3.75)/2$		$= 120.0M^2$
	15	M	$(3.75+5.40+3.75)/3$		$= 64.50M^2$
	15	M	$(3.80+3.75)/2$		$= 56.63M^2$
	15	M	$(6.20+5.50+3.75)/3$		$= 77.25M^2$
	30	M	$(3.70+3.80)/2$		$= 112.50M^2$
	1	5.0M	$3.50M$		$= 17.50M^2$
				Total	$= 1726.38M^2$
				Limit	$= 1721.25M^2$
4)	Providing and applying				
	Tack Coat (Per)				

Qty vide TMBP-12

Same as Prime coat

$$Qty = 1726.38M^2$$

5) Providing and laying
Mix Steel surface.

Qty vide TMBP-12

Same as Prime coat

$$Qty = 1721.25M^2$$

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
$10M \times \frac{(3.80+3.75+3.70)}{3} \times 0.075$					$= 2.81M^3$
$15M \times \frac{(3.05+3.70+3.60)}{3} \times 0.075$					$= 3.88M^3$
$15M \times \frac{(3.60+3.85)}{2} \times 0.075$					$= 4.19M^3$
$15M \times \frac{(3.30+3.60)}{2} \times 0.075$					$= 3.88M^3$
$30M \times \frac{(3.60+3.30)}{2} \times 0.075$					$= 7.76M^3$
$30M \times \frac{(3.60+3.60+3.80)}{3} \times 0.075$					$= 7.88M^3$
$15M \times \frac{(4.0+3.00)}{2} \times 0.075$					$= 3.94M^3$
$10M \times \frac{(3.50+3.20)}{2} \times 0.075$					$= 2.51M^3$
$13M \times \frac{(3.80+3.25+3.0)}{3} \times 0.075$					$= 3.26M^3$

$$\text{Total} = 40.11M^3$$

3) Const. of cement concrete

Pavement (M30)

$10M \times \frac{(3.80+3.75+3.70)}{3} \times 0.160$					$= 6.00M^3$
$15M \times \frac{(3.05+3.70+3.60)}{3} \times 0.160$					$= 8.28M^3$
$15M \times \frac{(3.60+3.85)}{2} \times 0.160$					$= 8.94M^3$
$15M \times \frac{(3.30+3.60)}{2} \times 0.160$					$= 8.28M^3$
$30M \times \frac{(3.60+3.30)}{2} \times 0.160$					$= 16.56M^3$
$30M \times \frac{(3.60+3.60+3.80)}{3} \times 0.160$					$= 16.80M^3$
$15M \times \frac{(4.0+3.00)}{2} \times 0.160$					$= 8.40M^3$
$10M \times \frac{(3.50+3.20)}{2} \times 0.160$					$= 5.36M^3$
$13M \times \frac{(3.80+3.25+3.0)}{3} \times 0.160$					$= 6.97M^3$
Total =					$85.59M^3$

4) Providing and fixing

(i) 1cm stone = 1 Nos.

(ii) 200mm stone = 3 Nos.

Continuation

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
5) Providing and fixing logo of Best Road					Qty = 2 Nos.
6) providing and fixing Boundary Pillars.					Qty = 16 Nos.
7) planting of tree and there Maint. one year					Qty = 45 Nos.
8) Providing and fixing Traffic Sign Board					
(i) 600mm triangle					= 2 Nos.
(ii) 600x450mm rectangle					= 2 Nos.
(iii) 900mm octagon					= 2 Nos.
9) Road marking with Hot applied Thermo					
BT Postings					
	2x	8x	30m	0.10	= 48.0m ³
	2x	7x	30m	0.10	= 42.0m ²
	2x	1x	5.0m	0.10	= 1.00m ²
					Total = 91.0m ²
					Limit = 90.0m ²
CC Postings					
	2x	5x	30m	0.100	= 30.0
	2x	1x	3.0m	0.100	= 0.60
					Total = 30.60m ²

Continuation of Ind to = 28.0m²

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
10) Const. of subgrade and further shoulder					
BT Portion					
$2 \times 8 \times 30m \times 0.80 \times 0.30$					$= 115.20 m^3$
$2 \times 9 \times 30m \times 0.85 \times 0.30$					$= 107.10 m^3$
$2 \times 1 \times 23 \times 0.80 \times 0.30$					$= 11.04 m^3$
CC Portion					
$2 \times 4 \times 30m \times 0.80 \times 0.35$					$= 67.20 m^3$
$2 \times 2 \times 17m \times 0.80 \times 0.35$					$= 19.04 m^3$
					Total = $319.58 m^3$

Emp calculation chart					
CH	C/S Area	Mean Area	-	Diff. volume (m)	Volume (m ³)
0	3.798	-		0	0.00 m ³
50	4.923	4.361		50	218.025
100	5.551	5.237		50	261.85
150	5.652	5.602		50	280.075
200	5.834	5.743		50	287.150
250	4.848	5.341		50	267.05
300	5.569	5.209		50	266.425
350	6.154	5.862		50	293.675
400	4.835	5.495		50	274.725
450	2.933	3.884		50	194.20
500	2.568	2.751		50	137.525

Continuation

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
- Abstract of cost: -					
1/30) Providing and fixing Benchmark Pillars.					
Qty = 1 Nos. vide lg - 7					
@ 5427.26/Nos.					$\beta_s = 5427 = w$
2/31) P/V Reference Pillars.					
Qty = 2 Nos. vide lg - 7					
@ 2519.27/Nos.					$\beta_s = 5039 = w$
3/32) Clearing and rubbing Rocky Land.					
Qty = 0.41 Hect. vide lg - 7					
@ 76926.08/Hect					$\beta_s = 31540 = w$
4/33) Const. of Embankment Lead upto 100 m					
Qty = 489.32 m ³ vide lg - 8					
Qty = 139.25 m ³ vide lg - 17					
Total = 628.57 m ³					Unit = 616.43
@ 196.04/m ³					$\beta_s = 120845 = w$
5/34) Const. of Embankment Lead upto 1000 m					
Qty = 40.68 m ³ vide lg - 17					
@ 260.98/m ³					10617 = w
6/35) Const. of Subgrade & further shoulder.					
Qty = 1041.75 m ³ vide lg - 8					

Continuation

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Qty = 317.58 m ³ vide Pg-16					
Total = 1361.33 m ³					
@ 264.51/m ³ R = 360085 = w					
7/136) Const. of craned					
sub-base with well					
graded material					
Qty = 359.03 m ³ vide Pg-11					
Qty = 67.21 m ³ vide Pg-13					
Total = 426.24 m ³ Unit = 425.34 m ³					
@ 3842.95/m ³ R = 1634560 = w					
137) Const. of WBM Uruli					
Qty = 129.53 m ³ vide Pg-11					
Qty = 40.11 m ³ vide Pg-14					
Total = 169.64 m ³ Unit = 169.24					
@ 6421.16/m ³ R = 1086781 = w					
9/138) Providing Prime cut					
Qty = 1721.25 m ² vide Pg-12					
@ 55.12/m ² R = 94875 = w					
10/139) Providing Tack cut.					
Qty = 1721.25 m ² vide Pg-12					
@ 18.92/m ² R = 32566 = w					
11/140) Providing Mix seal					
Surface (MSC)					
Qty = 1721.25 m ² vide Pg-12					
@ 306.21/m ²					
R = 527066 = w					

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
<u>12</u> <u>141</u>) Const. of cement Concrete Pavement					
$\phi y = 85.89 \text{ m}^3$ vide 15-14					
@ 10326.80/m ³				R =	884.860 = w 886969 = w
<u>13</u> <u>142</u>) Providing KM Stone					
$\phi y = 1 \text{ Nos. vide 15-14}$					
@ 3214.44/m				R =	3214 = w
<u>4</u> <u>143</u>) Providing 200mm Stone.					
$\phi y = 3 \text{ Nos. vide 19-14}$					
@ 860.71/Nos.				R =	2582 = w
<u>5</u> <u>144</u>) Providing and fixing Logo of Project Road					
$\phi y = 2 \text{ Nos. vide 13-8}$					
$\phi y = 2 \text{ Nos. vide 15-15}$					
Total = 4 Nos.					
@ 11968.48/Nos.				R =	47874 = w
<u>16</u> <u>145</u>) Providing and fixing Boundary Pillars.					
$\phi y = 16 \text{ Nos. vide 15-15}$					
@ 693.65/Nos.				R =	11098 = w
<u>17</u> <u>147</u>) 600mm triangle					
$\phi y = 2 \text{ Nos. vide 15-15}$					
@ 4395.28/Nos.				R =	8791 = w
<u>18</u> <u>148</u>) 600x450mm Rectangle					
$\phi y = 2 \text{ Nos. vide 15-15}$					
@ 5666.23/Nos.				R =	11332 = w

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
<u>19</u> <u>129</u>) 900mm octagons.					
Qty = 2 Nos videls - 15					
@ 10148.01 / Nos					$R = 20296 = w$
<u>20</u> <u>150</u>) Road working with					
Hot appld of BT form					
Qty = 90.0m ² videls - 15					
@ 784.84 / m ²					$R = 70636 = w$
<u>21</u> <u>151</u>) Road working below					
Qty = 28.0m ² videls - 15					
@ 893.55 / m ²					$R = 25019 = w$
<u>22</u> <u>152</u>) Planting of tree and					
their maint. of one					
Year					
Qty = 45 Nos. videls - 15					
@ 1305.153 / Nos					$R = 58732 = w$
<u>23</u> <u>153</u>)					
Total = 5053775 = w					
Add WST @ 18% = 909680 = w					
LC @ 1% = 50538 = w					
S. fee = 79552 = w					
					$6093545 = w$
Less Below @ 0.05% = 3047 = w					
					$= 6090498 = w$
Less Per. A/c Paymtd = 3217466 = w					
					$1883128 = w$
					$= 4207370 = w$
					$2873032 = w$
<i>[Signature]</i> @ 17/10/25 a/c					

Continuation