

MB NO:- 3491

Schedule XLV-Form No. 134
Const. of Kooq from Gramariya to Gramariya Karam
Ramdas Ram ke Ghar tak.

Sri Subash Kumar Shahi DIVISION

MB NO:- 3491

SUB-DIVISION

Talabur

Measurement Book

1st & Final bill

1

Name of Work—
 Situation of Work—
 Agency by which work is executed—
 Date of Measurement—
 No. and date of agreement

(These four lines should be repeated at the commencement of the measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
H/W:- Construction of Road from Gamhariya to Gamhar Kalan Ramdas Ram ke ghar tak under MMSY (Govt) at block Jalandhar.					
Agency - Sri Subhash Kumar Shakti					
Agg. NO - 20/SBD/2021-22					
Date of start - 27.09.2021					

Date of Completion - 26.09.2022					
Date of measurement - 15/2/2022					
Items of work.					
① Plv & fixing of working Benchmark pillar = 0.500 Km					
② clearing & grubbing of road land -					
2 x 10 x 30.00 m x 1.00 m = 600.00 m ²					
2 x 3 x 30.00 m x 1.00 m = 180.00 m ²					
2 x 3 x 30.00 m x 1.00 m = 180.00 m ²					
2 x 1 x 20.00 m x 1.00 m = 40.00 m ²					
Total = 1000.00 m ²					
= 0.10 Hect.					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(3) Box cutting - Excavation for roadway in soil using manual means.					
2x	10	30.00 m	0.375 m	0.10 m	= 22.50 m ³
2x	3	30.00 m	0.375 m	0.10 m	= 6.75 m ³
2x	3	30.00 m	0.375 m	0.10 m	= 6.75 m ³
2x	1	20.00 m	0.375 m	0.10 m	= 1.50 m ³
Total					= 37.50 m ³
(4) Construction of embankment with approved material deposited from roadway cutting					
Net Qty = 60% of excavated earth					
= 60% of 37.50 m ³					
= 22.50 m ³					
(5) Construction of embankment with material obtained from borrow pits with a lead Upto 1000 m :					
2x	10	30.00 m	0.900 m	0.45 m	= 243.00 m ³
2x	3	30.00 m	0.900 m	0.45 m	= 72.90 m ³
2x	3	30.00 m	0.900 m	0.45 m	= 72.90 m ³
2x	1	20.00 m	0.900 m	0.45 m	= 16.20 m ³
Total					= 405.00 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑥ Construction of granules					
Sub-base by providing					
Coarse graded material.					
(for c.c. portion)					
9m box cutting —					
2x	10x30.00m	0.375m	0.10m		$= 22.50 m^3$
2x	3x30.00m	0.375m	0.10m		$= 6.75 m^3$
2x	3x30.00m	0.375m	0.10m		$= 6.75 m^3$
2x	1x20.00m	0.375m	0.10m		$= 1.50 m^3$
For profile correction					
4x	3.90m	2.75m	0.10m		$= 4.29 m^3$
6x	4.20m	3.00m	0.10m		$= 7.56 m^3$
Extra width of H-cum.					
2x	5.00m	0.60m	0.10m		$= 0.60 m^3$
2x	5.60m	0.50m	0.10m		$= 0.56 m^3$
2x	6.00m	0.55m	0.10m		$= 0.66 m^3$
Total =					$51.17 m^3$
Qty liq =					$50.25 m^3$
⑦ Plv, kerby, spreading					
Compacting of WBM-3					
1x	10x30.00m	3.75m	0.075m		$= 84.37 m^3$
1x	3x30.00m	3.75m	0.075m		$= 25.31 m^3$
1x	3x30.00m	3.75m	0.075m		$= 25.31 m^3$
1x	1x20.00m	3.75m	0.075m		$= 5.62 m^3$
Extra width of H-cum.					
2x	5.00m	0.60m	0.075m		$= 0.45 m^3$
2x	5.60m	0.50m	0.075m		$= 0.42 m^3$
Qty 40 =					$141.48 m^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Qty B/F		141.48 m ²
	2	6.00 m	0.550 m	0.075 m	0.49 m ²
	$\frac{1}{2} \times 2$	4.00 m	3.00 m	0.075 m	0.90 m ²
			Total =		142.87 m ²

⑧ Construction of un-reinforced plain central concrete base					
as per technical specifications					
	10	30.00 m	3.75 m	0.160 m	180.00 m ³
	3	30.00 m	3.75 m	0.160 m	54.00 m ³
	3	30.00 m	3.75 m	0.160 m	54.00 m ³
	1	20.00 m	3.75 m	0.160 m	12.00 m ³
Enter width of H curve					

	2	5.00 m	0.60 m	0.160 m	0.96 m ³
	2	5.60 m	0.520 m	0.160 m	0.89 m ³
	2	6.00 m	0.550 m	0.160 m	1.05 m ³
	$\frac{1}{2} \times 2$	4.00 m	3.00 m	0.160 m	1.92 m ³
			Total =		304.82 m ³

⑨ Laying brick soling layer on prepared sub-grade					
	2	10	30.00 m	0.250 m	150.00 m ²
	2	3	30.00 m	0.250 m	45.00 m ²
	2	3	30.00 m	0.250 m	45.00 m ²
	2	1	20.00 m	0.250 m	10.00 m ²
			Total =		250.00 m ²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(10) Construction of sub-grade & earthen shoulder with approved material.					
Sides of h.s.D+BES					
	2x	10x30.00m	x 1.00m	x 0.125m	= 27.50m ²
	2x	3x30.00m	x 1.00m	x 0.125m	= 22.50m ²
	2x	3x30.00m	x 1.00m	x 0.125m	= 22.50m ²
	2x	1x20.00m	x 1.00m	x 0.125m	= 5.00m ²
Sides of WBM —					
	2x	10x30.00m	x 0.625m	x 0.075m	= 28.12m ²
	2x	3x30.00m	x 0.625m	x 0.075m	= 8.43m ²
	2x	3x30.00m	x 0.625m	x 0.075m	= 8.43m ²
	2x	1x20.00m	x 0.625m	x 0.075m	= 1.87m ²
Sides of P.C.C					
	2x	10x30.00m	x 0.625m	x 0.160m	= 60.00m ²
	2x	3x30.00m	x 0.625m	x 0.160m	= 18.00m ²
	2x	3x30.00m	x 0.625m	x 0.160m	= 18.00m ²
	2x	1x20.00m	x 0.625m	x 0.160m	= 4.00m ²
Total = 271.85m ²					
(11) P.V & Laying of R.C.C pipe dual 300mm dia across the road.					
	3x	3x	2.50m		= 22.50m.
(12) P.V & Laying of R.C.C MIS grade boundary pillars					
	2x	4x3	110		= 24 Nos

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(13) Plv & fixing of R.C.C MIS grade Kilometre stones					202 Nos
(14) Plv & fixing of R.C.C MIS grade 200 m stones					202 Nos
(15) Plv & fixing of retro-reflectrised traffic sign board — 600 m equilateral & triangle = 02 Nos					
(16) 600 m circular = 02 Nos					
(17) 600 m x 450 m rectangle = 01 No					
(18) Plv & erecting direction & plane identification sign board = 02 Nos.					
(19) Plv & laying of hot applied thermoplastic compound					
					$2 \times 10 \times 30.0 \text{ m} \times 0.10 \text{ m} = 60.0 \text{ m}^2$
					$2 \times 3 \times 30.0 \text{ m} \times 0.10 \text{ m} = 18.0 \text{ m}^2$
					$2 \times 3 \times 30.0 \text{ m} \times 0.10 \text{ m} = 18.0 \text{ m}^2$
					$2 \times 1 \times 20.0 \text{ m} \times 0.10 \text{ m} = 4.0 \text{ m}^2$
					Total = 100.0 m ²
(20) Plv & fixing of typical mmmsy informatory sign board with logo = 04 Nos					

M/Km
15/12/22
(J.E)

Continuation

Kishor
15/12/22
A.C.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Abstract of cost</u>					
$\frac{1}{1}$	Plv & fixing of working Benchmark pillars.				
0.500 Km, vide TMBB-1					
① B 12,334 = 87 Km-B					6167 = 00
$\frac{2}{2}$	clearing & grubbing of road land				
0.10 Hect, vide TMBB-1					
① B 53879 = 81 Hect-B					5388 = 00
$\frac{3}{3}$	Box cutting - excavation for road way in soil using manual means				
37.50 m ³ , vide TMBB-2					
① B 133 = 10/m ³ - B					4991 = 00
$\frac{4}{4}$	construction of embank- ment with approved material deposited from roadway cutting				
22.50 m ³ , vide TMBB-2					
① B 96 = 78/m ³ - B					2178 = 00
$\frac{5}{5}$	construction of embank- ment with material obtained from borrow pit with a lead 1000m				
405.00 m ³ , vide TMBB-2					
① B 197 = 10/m ³ - B					79825 = 00
① B 98,549 = 00					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			BIF, B		98,549 = 0
$\frac{6}{12}$	Construction of granular sub-base on binding coarse graded material.				
	50.25 m ³ , vide TMBP-3				
	(a) B 2879 = 0/m ³ B				1,44,670 = 0
$\frac{7}{13}$	Plr, laying, spreading & compacting of WBM-3.				
	142.87 m ³ , vide TMBP-4				
	(a) B 4013 = 42/m ³ B				5,73,397 = 0
$\frac{8}{14}$	Construction of un-reinforced plain concrete parapet as per technical specification				
	304.82 m ³ , vide TMBP-4				
	(a) B 7589 = 88/m ³ B				23,13,547 = 0
$\frac{9}{15}$	Laying brick sowing layer on prepared sub-grade.				
	250.00 m ² , vide TMBP-4				
	(a) B 552 = 90/m ² B				1,38,225 = 0
	C/O. B				32,68,398 = 0

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$\frac{15}{20}$			B17, B		33,57,485 = 60
		Plv & fixing of retro-reflectors traffic			
		Sign board			
		600 mm equilateral triangle			
02 Nos, vide TMBR 6					
	(1) B	3452=26	No-B		6905=60
$\frac{16}{24}$		600 mm circular			
02 Nos, vide TMBR 6					
	(2) B	4632=57	No-B		9265=60

$\frac{17}{23}$		600 mm x 450 mm rectangular			
01 No, vide TMBR 6					
	(1) B	4511=75	No-B		4512=60
$\frac{18}{25}$		Plv & erecting direction & place identifier			
		Sign board			
02 Nos, vide TMBR 6					
	(1) B	10,123=24	(No-B)		20,246=60
$\frac{19}{26}$		Plv & laying of hot-applied thermoplastic compound			
100.00 m ² , vide TMBR 6					
	(1) B	859=53	m ² -B		85,953=60
40, B					34,84,366=60

Continuation