

Lo45 to Halka Under Head MNMSY (SC)

Shedule XLV Form No. 134.

Ag.No - 54 SBD/21-22

Shergati

DIVISION

Molampur

SUB-DIVISION

Name of Agency:- Shriyamb techcons Pvt Ltd

Measurement Book

1398

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
B)	Clearing & grubbing of road work				
	28x	30x	7-w	=	5880.00 m ²
	1x	12x	7-w	=	84.00 m ²
				=	5964.00 m ²
	i.e.	5964		=	0.5964 Hec
		10,000			
(4)	Construction of 1000mm dia Hume pipe culvert				
(4)	E/W in excavation for foundation of str				
	4x	2x	6.3x1.4x0.150	=	105.84 m ³
	4x1x	5.9x	1.50x0.3w	=	10.62 m ³
					116.46 m ³
(5)	Providing concrete for plain/reinforced concrete in open foundation (PCC M-15)				
	4x	2x	6.3x1.4x0.15	=	10.58 m ³
(6)	Providing concrete for plain/reinforced concrete in open foundation (PCC Brand M-20)				
	4x	2x	6w x (1.35+0.70)/2	x1.35	= 66.42
	4x1x	5.9x	1.50x0.25	=	8.85 m ³
					75.27 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(7)	Providing & laying reinforced cement concrete in Substructure Complete (PCC Grade M-20)				
	4	2	6.0	$\frac{0.70 + 0.40}{2} \times 1.75$	$= 46.20 \text{ m}^3$
	4	2	6.0	0.4×0.60	$= 11.52 \text{ m}^3$
	Deduct for Pipe portion				
	4	2	$\frac{3.14}{4}$	$\frac{(1.2)^2}{4} \times 0.6$	$= (-) 5.42 \text{ m}^3$
					<u>52.30 m^3</u>
(8)	Providing & laying 1000 mm dia. concrete pipe				
	4	3	2.5		$= 30.00 \text{ m}^3$
(9)	Laying (first class) Filling in foundation trenches (Sand filling)				
	4	2	6.0	0.405	$= 19.44 \text{ m}^3$
	4	1	6.30	1.50×0.90	$= 34.02 \text{ m}^3$
					<u>53.46 m^3</u>
	Deduct for Pipe portion				
	4	1	6.30	0.91	$= (-) 22.93 \text{ m}^3$
					<u>30.53 m^3</u>

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(10)	Construction of subgrade leather shoulder with approved material				
	28x	30x	$\frac{7.40+8.40}{2}$	$\times 0.30$	$= 2016.00 \text{ m}^3$
	1x	12x	$\frac{7.40+8.60}{2}$	$\times 0.30$	$= 28.80 \text{ m}^3$
					2044.80 m^3
(11)	Granular subbase with well graded material construction of granular subbase by bonding well graded material.				
	10x	30x	4.05×0.20		$= 243.00 \text{ m}^3$
	10x	30x	4.05×0.20		$= 243.00 \text{ m}^3$
	8x	30x	4.05×0.20		$= 194.40 \text{ m}^3$
	1x	12x	4.05×0.20		$= 9.72 \text{ m}^3$
					690.12 m^3
(12)	BANKING 3 bonding layer spreading and compacting stone aggregate of specific sizes to water bound				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	macadam				
H	10x	80x	3.75x0.075		= 84.375 ²
	10x	80x	3.75x0.075		= 84.375 ²
	8x	80x	3.75x0.075		= 67.50 ²
	1x	12x	3.75x0.075		= 3.375 ²
					239.625 ²
(13)	Prime Coat				
	bonding of road applayer				
	prime coat with bitumen				
	Emulsion (SS-1)				
H	10x	80x	3.75		= 1125-wm
	10x	80x	3.75		= 1125-wm
	8x	80x	3.75		= 960-wm
	1x	12x	3.75		= 45w
					3195-wm
(14)	Tack coat				
	bonding and applayer				
	tack coat with				
	Bitumen Emulsion				
	(RS-1) using emulsion				
	disturbance				
	Qty same as above				
	This page No-(20)				
	Item No-(13)				3195-wm

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15)	Mm seal surfacing Bituminous with waste plastic. Providing heavy road rolling of close grade - - - Area Qty same as vide TMBP No (26) Item No - (14) = 3195 m ²				
(16)	Kilometre stone Reinforced cement concrete M15 grade				
	Kilometre stone	-	-	-	2 Nos
(17)	Junction stone (Precast)				3 Nos
(18)	Retro-reflective sign traffic sign. Providing and fixing of retro-reflective Cautionary mandating and sub-mandating 600mm circular				1 No
(19)	600mm equilateral triangle				6 Nos

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(20)	600 mm x 450 mm				
	Rectangular				= 2.7 m ²
(21)	900 mm side octagon				2 Nos
(22)	Road marking				
	Painting and laying				
	of hot applied thermoplastic compound				
	25 mm thick				
2x 10x 30x 0.1					= 60.0 m ²
2x 10x 30x 0.1					= 60.0 m ²
2x 8x 30x 0.1					= 24.0 m ²
2x 10 12x 0.1					= 24.0 m ²
					85.20 m²
					170.4 m ²
(23)	Construction of subgrade				
	Leakage shoulder				
	with approved material				
	obtained from				
Side of GSB	2x 10x 30x 1.33x 0.20				= 159.60 m ³
	2x 10x 30x 1.33x 0.20				= 159.60 m ³
	2x 8x 30x 1.33x 0.20				= 127.68 m ³
	2x 10 12x 1.33x 0.20				6.38 m ³
					453.26 m ³
Side of WBH	2x 10x 30x 1.20x 0.077				= 55.53 m ³
/ MGS	2x 10x 30x 1.20x 0.077				= 55.53 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2x80	300	1.2020	0.077	= 44.425 m ²
	2x10	120	1.2020	0.077	= 2.221 m ²
					610.97 m ²
(24)	Painting two coats including former coats after filling the surface				
	4x2x	6.0x	0.40		= 11.92 m ²
	4x2x	6.000	0.40		= 19.20 m ²
	4x4x	6.40x	0.40		= 2.56 m ²
	2x	3.000	0.40		= 2.40 m ²
	2x	3.000	0.50		= 3.00 m ²
	4x	6.400	0.50		= 0.80 m ²
	1x	2.4000	0.50		= 4.9 m ²
					52.66 m ²
(25)	Boundary pillar reinforced cement concrete M15 grade boundary pillar				= 16.00 Nos
(26)	Abounding & fixing of approval M452 laboratory sign board				
	Maintenance board				= 1.00 Nos

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Earthwork Quantity sheet</u>					
Sl. No	Ch mm	Area mm	Mean mm	Area	Distance Volume
1	0	5.932	—		
2	50	7.051	6.492		50 324.595
3	100	7.138	7.094		50 354.725
4	150	7.618	7.378		50 368.905
5	200	7.426	7.522		50 376.120
6	250	7.758	7.892		50 399.624
7	300	7.954	7.885		50 392.736
8	350	7.000	7.475		50 373.765
9	400	7.357	7.178		50 358.914
10	450	7.286	7.322		50 366.076
11	500	6.941	7.113		50 355.668
12	550	7.714	7.327		50 366.362
13	600	7.141	7.428		50 371.376
14	650	6.954	7.047		50 352.373
15	700	6.801	6.877		50 343.867
16	750	7.336	7.069		50 353.426
17	800	7.322	7.431		50 371.555
18	850	7.460	7.493		52 389.648
19	<u>Total E/W Qty</u> (including crust)			=	6199.731 ³
<u>Deduction of crust.</u>					
CSP = 690.12M ³					
W.P.H & II = 239.62M ³					
M.S.S. (3195.00 x 0.2) = 63.90M ³					
Subgrade & shoulder = 265.77M ³					
3649.41M ³					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Net Payable Qty of E/W					
= $6199.93 - 3649.41 \text{ m}^2$					
= 2550.32 m^2					
(27) Construction of embankment with approved material -					
(1000 m lead)					
2550.32×30					= $765,096 \text{ m}^3$
100					
(28) Construction of embankment with approved material -					
(100 m lead)					
2550.32×70					= 1785.21 m^3
100					
<i>Suma</i>					
21/1/24					
JE					
<i>Acad</i>					
31-1-24					
AE					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	<u>Abstract of cost</u>				
	<u>(All City wide THA)</u>				
	<u>and 2 Final Bill</u>				
(1)	Construction of reference				
	working bench mark				
	City wide TMB P. No. (22)				
	Item No. (1) = 0.852 KM				
	@ Rs 4800.78/KM				Rs 4090 =
(2)	Construction of Reference				
	working bench mark				
	City wide TMB P. No. (22)				
	Item No. (2) = 0.852 KM				
	@ Rs 3160.26/KM				Rs 2692 =
(3)	Clearing and grubbing				
	road land including				
	uprooting				
	City wide THA P. No. (23)				
	Item No. (3) = 0.556 Hec				
	@ Rs 51165.25/Hec				Rs 25781 =
(4)	Earth work in excavation				
	for structures				
	City wide THA P. No. (23)				
	Item No. (4) = 116.46 M ³				
	Item No. (5) = 77.44 M ³				
	Item No. (6) = 193.90 M ³				
	@ Rs 294.73/M ³				Rs 57148 =

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(5/30)	Providing concrete for plain/reinforced concrete in open foundation. (P.C.C H-15)				
	Qty wide TMBRN. (23)				
	Item No. (5)				$= 10.58 \text{ m}^3$
	TMBRN. (23) Item No. (11)				$= 9.68 \text{ m}^3$
					$= 20.26 \text{ m}^3$
	@ Rs 4564.170/m ³				Rs 92470 =
(6/31)	Providing concrete for plain/reinforced concrete (P.C.C H-20)				
	Qty wide TMBRN. (23)				$= 75.27 \text{ m}^3$
	Item No. (6)				
	Qty TMBRN. (23) Item No. (12)				$= 48.61 \text{ m}^3$
	Item No. (12)				$= 23.88 \text{ m}^3$
	@ Rs 4801.60/m ³				Rs 594822 =
(7/32)	Providing plain/rein- forced cement concrete in Sub structure (P.C.C H-20)				
	Qty wide TMBRN. (24)				$= 52.30 \text{ m}^3$
	TMBRN. (24) Item No. (4)				$= 34.14 \text{ m}^3$
					$= 86.44 \text{ m}^3$
	@ Rs 5230.30/m ³				Rs 452107 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(8/33)	plain/reinforced cement concrete in Substructure complete				
	Qty vide TMB PN.-(11)				
	Item No.-(13) = 4.46 m^3				
	@ Rs 5491.26/m ³			Rs 24491 =	
(9/34)	Providing and laying reinforced cement concrete in Super Str.				
	Qty vide TMB PN.-(12)				
	Item No.-(14/34) = 3.74 m^3				
	@ Rs 6235.48/m ³			Rs 23321 =	
(10/35)	supplying fitting and placing HYSD bar reinforcement				
	Qty vide TMB PN.-(12)				
	Item No.-(15/35) = 6.66192 M.T.				
	@ Rs 57267.11/M.T			Rs 37906 =	
(11/36)	Providing back filling behind abutment wing wall and return wall				
	Qty vide TMB PN.-(12)				
	Item No.-(16/36)				
	35.38 m^3				
	@ Rs 790.09/m ³			Rs 27953 =	

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(12/38)	providing laying				
	1000mm dia Hum pipe				
	Qty of TMBPN - (24)				
	Item No - (8) 30. m				
	@ Rs	41.27	40	m	123822 =
(13/39)	laying cement concrete				
	pipe 1100				
	Qty of TMBPN - (20)				
	Item No - (18/39) = 30. m				
	@ Rs	819.15	m	Rs	24575 =
(14/40)	Filling on foundation				
	to trench				
	(3rd filling)				
	Qty of TMBPN - (24)				
	Item No - (9) 30.53 m ²				
	@ Rs	517.35	m ²	Rs	15520 =
(15/41)	construction of sub grade				
	and center shoulder				
	Qty of TMBPN (25) = 2014.80				
	TMBPN - (25) = 610.97				
	2655.77 m ²				
	@ Rs	198.57	m ²	Rs	527356 =

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(16)/12	Construction of granular subbase by providing well graded material				
	Qty under H.P.N. (25)				
	Item No. (11) = 690. 12m ³				
	@ Rs 2130.10/m ³				1470025 =
(17)/11	L.P.H. Grading 3.				
	Providing layer spreading and compacting stone				
	Qty under H.P.N. (26)				
	Item No. (12) = 239. 6m ³				
	@ Rs 3095.09/m ³				
	@ Rs 3095.09/m ³ Rs 741645 =				
(18)/12	Prime Coat				
	Providing and applying				
	Prime Coat - -				
	Qty under H.P.N. (26)				
	Item No. (13) = 3195.0m ²				
	@ Rs 43.49/m ² Rs 138951 =				
(19)	Tack Coat				
	Providing and applying				
	Tack coat -				
	Qty under H.P.N. (26)				
	Item No. (14) = 3195.0m ²				
	@ Rs 15.20/m ² Rs 48564 =				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(20/14)	Mix seal Surfacing.				
	Bituminous with				
	waste plastic,				
	paving byong				
	and rolling of				
	close jointed				
	Stynde TMBP No. (27)				
	Item No. (18)				
	= 3 195.00 m				
	@ Rs	187.98/m ²	Rs	600628 =	
(21/16)	Kilometric stone				
	Reinforced cement				
	concrete M15 grade				
	Stynde TMBP No. (27)				
	2.0 m @ Rs 2412.29/m = 4825 =				
(22/17)	2mm stone (precast)				
	Stynde TMBP No. (27)				
	3.0 m				
	@ Rs	646.25 each	Rs	1939 =	
(23/23)	paving of				
	retro-reflectors of				
	Gommencur				
	Stynde TMBP No. (27)				
	1. No.				
	@ Rs	4751.40 each	Rs	4751 =	

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(24/24) 60mm equilateral triangle					
Qty vide THB P.N. - (27)					
6.00 Nos @ Rs 357 per each					21427 =
				Rs	
(25/25) 60mm x 45mm rectangular					
Qty vide THB P.N. - (28)					
2.4 Nos					
@ Rs 462.5 per each				Rs	9243 =
(26/26) 900mm side octagon					
Qty vide THB P.N. - (28)					
2.4 Nos @ Rs 5175.76 per each				Rs	16352 =
(27/27) Providing & laying of hot applied thermoplastic compound & sum stick					
Qty vide THB P.N. - (28)					
170.4 m ²					
@ Rs 736.41/m ²				Rs	125414 =
(28/19) Painting two coats including primer coat					
Qty vide THB P.N. - (29)					
Item 14 - (24)					
52.06 m ² @ Rs 97.18/m ²				Rs	5059 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(29/18)	Reinforced cement concrete Marginal boundary pillar -				
	Qty vide TMBPN. (29)				
	Item No. - (29) = 16.4 Nos				
	@ Rs 539.90 each Rs 8638 =				
(30/20)	Providing & fixing of typical MMSY interlocking sign board				
	Qty vide TMBPN. (30)				
	Item No. (30) = 1.4 Nos				
	TMBPN (18) = 2.4 Nos				
	Item No. (31/21) 3.4 Nos				
	@ Rs 9559.38 each Rs 28678 =				
(31/7)	Construction of embankment with approved material				
	(100m lead)				
	Qty vide TMBPN. (31)				
	Item No. - (27) = 765.086 m ³				
	@ Rs 190.22/m ³ Rs 145537 =				
(32)/8	Construction of embankment with approved material				
	(100m lead)				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty of THB P.N. - (31)					
Item No. - (28) = 1785.21m ²					
① Rs 154.38/m ²				Rs	275619 =
				Rs	5681549 =
Add 12% GST =				Rs	681786 =
Add 1% labourer				Rs	56815 =
Add Seigniorage				Rs	80656 =
				Rs	6500806 =
Less 17.92% no برگreement				Rs	1164944 =
				Rs	5335862 =
Less Bonus payment				Rs	3922305 =
				Rs	1413557 =
Summ	31/11/24				
Ar. of	31-1-29				
JE					