

App No - 03 (SBD)/19-20

Agency - S.K.T.P.L.

Sheikhpura - Chhatkumbha Road to

Nawariga.

Mmasy RDR BRICS

Schedule XLV-Form No. 134

Sheikhpura

DIVISION

Chhatkumbha

SUB-DIVISION

MB No - 1327

Measurement Book

1st On A/c Bill

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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.	
Name of Work:	Construction of Road				
	and CD work with Maintenance				
	from Sheekhpura - Ghatkumbha				
	Path Se Murwariga				
	Under head MMGSY (NDB)				
	Package No - MMGSY-NDB-BRRP-				
	83-Sheekhpura				
Agency -	Sanjay Kumar Technocrat				
	Pvt. Ltd. (SCTCL)				
	At - Indray, Station Road				
	P.O. + Dist - Sheekhpura				
Agreement No -	03 (SBD) / 2019-20				
Agreement Value:					
	Const ⁿ Cost = Rs 174.87 Lacs				
	Maint. Cost = Rs 8.25 Lacs				
	Total Cost = Rs 181.12 Lacs				
Date of Commencement =	24.02.2020				
Date of Completion =	23.02.2021				
Date of Measurement:					
	2.01.2021 to 12.4.2021				
Date of Entry -	15.9.2021				

Continuation

2nd On A/c Bill

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of Work: Construction of Road and CD work with Maintenance from Sheikhpura - Ghatkulumbhara Se Murwariya					
Under Head - MMGSY (NDB)					
Package No - MMGSY-NDB-BRRP-					
83 - Sheikhpura					
Agency - Sanjay Kumar Technocrats Private Limited (SKTPL)					
At - Indray, Station Road, Sheikhp.					
P.O. + Distt - Sheikhpura					
Agreement No - 03/SB/D/2020-21					
Agreement Value:					
Const ⁿ Cost = Rs. 174.87 Lacs					
Maint Cost = Rs. 6.25 Lacs					
Total Cost = Rs. 181.12 Lacs					
Date of Commencement: 24.02.2020					
Date of Completion: 23.02.2021					
Date of Measurement: 15.04.2021					
to 10.03.2022					
Date of Entry: 10.03.2022					
Rest work item for					
Const ⁿ of RCC slab Culvert of size					
2 cell x 5.0 m span x 3.0 m Vert height					
@ CH - 1.25% km					
(1/30) Plain/RCC 20 Substructure Qty above GL					

Continuation

{ Abutment - $2 \times 7.50 \times 1.40 \times 2.80 = 58.80 \text{ m}^3$
 Pier - $1 \times 7.50 \times 1.34 \times 2.80 = 28.14 \text{ m}^3$
 Semi-cylindrical - $1 \times 1.42 \times 2.80 = 3.97 \text{ m}^3$
 R/W - $4 \times 0.659 \times 1.127 \times 3.355 = 9.759 \text{ m}^3$
 C.C. = 180.992 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$= 100.8924 m^3$
Abutment Cap	2	7.50×0.70	0.20		$= 2.10 m^3$
Pier	1	7.50×1.20	0.20		$= 1.80 m^3$
Semi Circular Nose Portion	1	1.13	0.20		$= 0.226 m^3$
Diaphragm Wall	2	7.50×0.30	0.43		$= 1.935 m^3$
R/W Capping	4	2.30×0.40	0.075		$= 0.276 m^3$
Kerb	2	16.40×0.30	0.45		$= 4.428 m^3$
End Pillar	4	0.40×0.40	0.60		$= 0.384 m^3$
					$112.04 m^3$

(2/33) P/V Bitumen Painting

Abutment Cap	2	7.50×0.70			$= 10.50 m^2$
Pier	1	7.50×1.20			$= 9.00 m^2$
Diaphragm Wall	2	7.50×0.430			$= 6.45 m^2$
					$25.95 m^2$

(3/35) S/P/P HYSD Bar reinforcement

Cap Ring - 12mm @ 150mm c/c					
	2	7.5×2.66	@	$0.888 kg/m$	$= 354.312 kg$
Binder 10mm ϕ	2	12×7.4	@	$0.617 kg/m$	$= 109.579 kg$
Pier Ring - 12mm @ 150mm c/c					
	7	5×2.48	@	$0.888 kg/m$	$= 165.168 kg$
Binder - 10mm ϕ	12	7.4	@	$0.617 kg/m$	$= 54.789 kg$
Deck Slab: Bottom 20mm ϕ @ 150mm c/c					
	2	6.56×7.5	@	$2.469 kg/m$	$= 2429.496 kg$
Binder: 16mm ϕ @ 125mm c/c					
	2	7.40×4.8	@	$1.58 kg/m$	$= 112.432 kg$
Top Main Bar: 12mm ϕ @ 250mm c/c					
	2	5.60×3.8	@	$0.888 kg/m$	$= 377.932 kg$

Continuation

Binder - 12mm ϕ 200mm c/c					
	2	31×7.4	@	$0.888 kg/m$	$= 507.914 kg$
					$CA = 5021.122$

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Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
	B.F.			= 5021.122 kg
Chair 12mmφ - 2x2.2x4.5 @ 0.888 kg/m				= 175.825 kg
Kerb: Ring - Main Bar 10mmφ @ 1.50 mm/c				
2x1.17x2.25 @ 0.617 kg/m				= 324.25 kg
Rein: 10mmφ - 2x4x1.8 @ 0.617 kg/m				= 89.835 kg
				5611.632 kg
Total in MT: $5611.632 \div 1000 = 5.61$ MT				
4/34 P/V RCC M25 in Deck slab				
2x7.50x5.97x0.430				= 38.507 m ³
5/36 P/P 20mm thick Compressible fibre board in expansion joint				
3x7.50				= 22.50 m
6/37 Parapet wall in RCC (1:2.5:15) Plain/RCC				
2x17.20x0.40x0.60				= 8.26 m ³
7/38 P/V Graphtes				
2x15 + 4x3				= 42 m ²
8/40 P/L CC Wearing Course M30 grade				
2x8x6.70x0.075				= 7.5375 m ³
9/41 RCC M30 grade approach slab				
2x3x6.70x0.30				= 12.06 m ³
15-12-2021				
SVK				
SVK				

Continuation

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Sch. XLV-Form No. 134				Contents of area		
Particulars	Details of actual measurement					
	No.	L.	B.	D.		
Construction of R.C. Slab Culvert						
Size 2.00m span x 2.00m height						
@ CH - 20M						
(10/23)	E/W in excavation for structure					
SE	Abutment	2	9.10	2.30	1.60	66.976m ³
	R/W	4	1.60	2.097	1.60	21.473m ³
	Floor Under deck slab	1	7.70	0.40	0.25	0.77m ³
	Qty for slab					8.922m ³
					98.141m ³	
(11/29)	Sand filling in found ⁿ trench					
	1	7.70	1.62	0.10	1.259m ³	
(12/24)	P/W P.C. M15 (1:2.5:5) in found ⁿ					
	Abutment	2	9.10	2.30	0.20	8.372m ³
	R/W	4	1.60	2.097	0.20	2.634m ³
	Floor Under deck slab	1	7.70	1.736	0.150	2.005m ³
					13.061m ³	
(13/28)	P.C. in found ⁿ P/W M20 Plain/Rec					
SE	Abutment	2	8.30	1.80	1.40	4.032m ³
	R/W	4	1.60	1.597	1.40	14.309m ³
					56.141m ³	
(14/30)	Plain/Rec in Substructure					
SE	Abutment	2	7.50	1.00	1.80	2.700m ³
	R/W	4	1.90	0.149	2.090	1.889m ³
	Abutment top	2	7.50	0.70	0.20	2.100m ³
	Diaphragm wall	2	7.50	0.40	0.24	1.440m ³
	R/W Gpiling	4	2.20	0.40	0.15	0.528m ³
					42.957m ³	

Continuation

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15/33) P/V Bitumen Painting over top surface					
	2	7.30	0.70	=	10.50 m ²
	2	7.50	0.24	=	3.60 m ²
					14.10 m ²
(16/35) S/R/P HSD Bar reinforcement					
Qty Same as item 24/35 V.R.M.B.P.					
					= 0.586 MT
(17/34) REC M25 in Deck slab					
	1	7.30	2.58	0.246	= 4.638 m ³
(18/36) P/A Joint Sealing					
	2	7.50	0.15	0.2	

(19/37)	Plain/REC M25 (1:2:5:5) in Parapet wall
	$2 \times 8.60 \times 0.40 \times 0.60 = 3.84 \text{ m}^3$
(20/38)	P/V Weepholes
	$2 \times 12 \times 4 \times 4 = 46.0 \text{ nos.}$
(21/18)	P/L of Rec Bedded of 300mm
	$5 \times 3 \times 2.50 = 37.5 \text{ m}$
(22/6)	Cons'n of Subgrade
	$25 \times 30 \times 7.98 \times 0.30 = 149.79 \text{ m}^3$
	$15 \times 30 \times 7.98 \times 0.30 = 89.86 \text{ m}^3$
SWK	$2 \times 25 \times 30 \times 1.00 \times 0.30 = 45 \text{ m}^3$
	$2 \times 15 \times 30 \times 1.00 \times 0.30 = 27 \text{ m}^3$
Continuation	
	$2 \times 25 \times 30 \times 1.00 \times 0.30 = 45 \text{ m}^3$
	$2 \times 15 \times 30 \times 1.00 \times 0.30 = 27 \text{ m}^3$

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(23/7) P.V. G.S.B. 92-7 material					
					$5 \times 30 \times 4.05 \times 0.20 = 121.50 \text{ m}^3$
					$16 \times 30 \times 4.05 \times 0.20 = 243.00 \text{ m}^3$
					$1 \times 30 \times 4.05 \times 0.20 = 24.30 \text{ m}^3$
					$1 \times 20 \times 4.05 \times 0.20 = 16.20 \text{ m}^3$
					<u>405.00 m^3</u>

$\frac{405.00}{10} = 40.50$ 2022
 10
 20
 55-22
 AC

ABSTRACT OF COST

(1/1) Working Bench Mark Pillar
 item 1/1 VTM B

P/13 - 2 nos @ Rs. 4011.40/each
 = Rs. 8023.00

(2/2) Reference Pillars item 2/2 VTM B

P/13 - 7 nos @ Rs. 1832.46/each
 = Rs. 12827.22

(3/3) Clearing & Grubbing road lands item 3/3 VTM B

P/13 - 0.81 sheet @ Rs. 49245.52/sheet
 = Rs. 40036.87

(4/4) Constⁿ of embankment with 100m lead

item 4/4 VTM B P/13 - 216.86 m^3 @ Rs. 187.47/ m^3
 = Rs. 40655.10

(5/5) Constⁿ of embankment with 100m lead

item 5/5 VTM B P/13 - 1781.83 m^3 @ Rs. 155.20/ m^3
 = Rs. 276540.16

Continuation

C.O. Rs. 378081.16

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Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	D.
(6/6) Subgrade & earthen shoulder				
item 22/6 VTM B				
P/22 - 3822.50 m ³ @ Rs. 205.98/m ³				
= Rs. 787294.00				
(7/7) GSB gr. 1 item 23/7 VTM B				
P/23 - 405.00 m ³ @ Rs. 1435.63/m ³				
= Rs. 581430.00				
(8/8) RCC Pipe duct item 24/8 VTM B				
P/24 - 37.50 m ³ @ Rs. 887.60/m				
= Rs. 33285.00				
(9/22) MM GSY (NDB) in formulary				
Sign Board with logo item 9/22 VTM B				
P/14 - 3 nos. @ Rs. 9724.82/each				
= Rs. 29174.46				
(10/23) E/W in excavation for foundation of structure				
item 7/23 VTM B P/14 = $\frac{979.502}{258.89} \text{ m}^3$				
item 10/23 VTM B P/21 = 98.141 m ³				
$\frac{257.034}{1077.643} \text{ m}^3$				
@ Rs. 258.89/m ³ = Rs. 27899.10				
(11/24) RCC M15 (1:2:5:5) as levelling course				
item 8/24 VTM B P/14 = 121.419 m ³				
item 12/24 VTM B P/21 = 13.061 m ³				
134.480 m ³				
@ Rs. 5358.90/m ³ = Rs. 720665.00				
C.O. Rs. 2808920.00				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	B.P.	Rs.	2808920	=	
(12/28) Plain/Rec in found ⁿ					
item 9/28 VTMBP/14					518.956 m ³
item 13/28 VTMBP/21					56.141 m ³
					575.097 m ³
@ Rs. 6058.06/m ³					Rs. 3483972.00
(13/29) Sand filling in found ⁿ benches					
item 10/29 VTMBP/15					40.267 m ³
item 14/29 VTMBP/21					1.254 m ³
					41.521 m ³
@ Rs. 458.24/m ³					Rs. 19027.00
(14/30) Plain/Rec in substructure					
item 11/30 VTMBP/15					174.423 m ³
item 13/30 VTMBP/19					112.04 m ³
item 14/30 VTMBP/21					42.957 m ³
					329.42 m ³
@ Rs. 6283.98/m ³					Rs. 2070069.00
(15/31) RCC NP-3 HP of dia 600mm item 12/31 VTMBP					
P/15 - 7.50m @ Rs. 2357.01/m					Rs. 17678.00
(16/32) RCC NP-3 HP of dia 1000mm item 13/32 VTMBP					
P/15 - 22.50m @ Rs. 4062.95/m					Rs. 91416.00
(17/33) P/V Bitumen Painting					
item 14/33 VTMBP/15					59.10 m ²
item 2/33 VTMBP/19					25.95 m ²
item 15/33 VTMBP/22					14.10 m ²
					99.15 m ²

Continuation

@ Rs. 167.5/m² = Rs. 1661.00

C.O. Rs. 8492743.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	B. F. = Rs. 8492743.00				
(18/34) RCC Mats in Dock slab					
item 15/34 VTMBP/15				28.638 m ²	
item 14/34 VTMBP/20				38.507 m ²	
item 17/34 VTMBP/22				4.608 m ²	
				71.753 m ²	
@ Rs. 7415.16/m ²					Rs. 532060.00
(19/35) HYSD Bar reinforcement					
item 16/35 VTMBP/16				3.636 MT	
item 3/35 VTMBP/20				5.61 MT	
item 16/35 VTMBP/22				6.586 MT	
				9.852 MT	
2 items =				9.758 MT	
@ Rs. 70922.04/MT					Rs. 692057.00
(20/36) Joint Sealing					
item 17/36 VTMBP/16				60.00 m	
item 5/36 VTMBP/20				22.50 m	
item 18/36 VTMBP/22				15.0 m	
				97.50 m	
@ Rs. 36.25/m					Rs. 3534.00
(21/37) Parapet wall					
item 18/37 VTMBP/16				16.80 m ³	
item 6/37 VTMBP/20				8.26 m ³	
item 19/37 VTMBP/22				3.84 m ³	
				28.90 m ³	
@ Rs. 5555.67/m ³					Rs. 160559.00
					C.O. Rs. 9880953.00

Continuation

Continuation