

LAGMA TO PANCHRUH

Schedule XLV-Form No. 134

MMGSY-NDB-BRRP-320

BENIPUR

DIVISION

TARDIH

SUB-DIVISION

Measurement Book

अमरनाथ

M.B.N. 1668

21 SBD/2021.22

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3rd on A/c Bill					
Name of Road - construction of Road from Lagos to Pethukli to be under mmsy (NDB) Head.					
Name of Agency - Annamally Jha, Benapur					
Agreement No. - 2/585/2021-22					
Date of Agreement - 07.03.21					
Date of completion - 06.09.22					
Date of measurement - 20.10.23					
UP to Date					
measurement details of PCRC Road & BT Road only					
① Setting out pillars providing Benchmark Pillars					
Qty → 1 Nos					
② Providing and fixing of Reference Pillars					
Qty → 5 Nos					
③ Clearing and grubbing Road Land including					
1105m x 3.50m (av.) = 3867.5m ²					
i.e. = 0.3868 Hec					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
④ Excavation of Soil using Hydraulic Excavator					
Measurement Qty	Same as vide TMB P-11				
Hem No	(14)				
i.e.	29.89m ³				
⑤ Construction of Embankment with material obtained from borrow pits					
Lead up to 100m					
Measurement Qty	Same as vide TMB P-40				
Hem No	(9) i.e. = 627.375m ³				
② 190.57/m ³					
⑥ Construction of Embankment with material obtained from borrow pits					
Lead up to 100m					
Measurement Qty	Same as vide TMB P-40				
Hem No	(9) i.e. = 1463.805m ³				
② 154.28/m ³					
⑦ Construction of Subgrade and					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
earthen shoulder measurement					
Qty Same as qty					
vide TMB P-37					
Item No ⑦					
i.e = 591.425m					
⑧ GSB - construction of granular sub base					
For BT Position					
20 X 30m X 4.05m X 0.20m					= 486.00m ³
1 X 25m X 4.05m X 0.20m					= 20.25m ³
30m X $\frac{3.10 + 3.10}{2}$ m X 0.10m					= 10.20m ³
30m X $\frac{3.10 + 3.40 + 3.40}{3}$ m X 0.10m					i.e = 9.099m ³
20m X $\frac{2.6 + 3.0 + 2.50}{3}$ m X 0.10m					i.e = 5.40m ³
Widerment (Box cutting)					
2 X 30m X 0.42m (avg) X 0.10m					= 2.52m ³
Profile correction					
21 Nos. X 1.05m (avg) X 0.9 (avg) X 0.10m					= 1.984m ³
1 Nos X 0.5m X 0.7m X 0.10m					= 0.035m ³
For PCC Position					
measurement Qty					
Same as Qty vide					
TMB P-20, item No ①					
i.e = 38.994m					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Widening on curve PCC portion Measurement of same as vide TMB P-39					
Position No. 1					
Item No. (2) i.e. $4.088m^2$					
i.e. $2.558m^3$					
BT Position					
$24m \times 0.15m (av) \times 0.20m = 0.72m^3$					
$20m \times \frac{3.95+0}{2}m \times 0.20m = 7.90m^3$					
					$585.66m^3$
(9) WBM 60III - Providing Laying, spreading &					
Compacting WBM 60III - 22					
For BT Position					
$20 \times 30m \times 3.75m \times 0.075m = 168.75m^3$					
$1 \times 25m \times 3.75m \times 0.075m = 7.0313m^3$					
$30m \times \frac{3.70+3.10}{2}m \times 0.075m = 7.65m^3$					
$30m \times \frac{3.10+3.90+2.60}{3}m \times 0.075m = 6.825m^3$					
$20m \times \frac{2.60+3.0+2.50}{3}m \times 0.075m = 4.05m^3$					
Widening					
$20m \times 3.95m \times 0.075m = 2.963m^3$					
$24m \times 0.15m (av) \times 0.075m = 0.27m^3$					
For PCC Position					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
13 X 30m X 3.75m (11) X 0.075m					103.125m ³
1 X 10m X 3.75m X 0.075m					2.813m ³
widening as a curve					
23m X $\frac{1.75 + 0.70}{2}$ X 0.075m					1.49m ³
4m X $\frac{3.40 + 0}{2}$ X 0.075m					0.51m ³
					311.959m ³
(10) Cement concrete					
Pavement 11/30 - const.					
of Unreinforced Plain					
Cement concrete — 2/2					
13 X 30m X 3.75m X 0.16m					234.100m ³
1 X 10m X 3.75m X 0.16m					6.0m ³
widening					
23m X $\frac{1.75 + 0.70}{2}$ X 0.16m					3.0m ³
4m X $\frac{3.40 + 0}{2}$ X 0.16m					1.088m ³
					244.088m ³
(11) Provision of Km Stone — 2/2					
Qty. → 2 Nos					
(12) 200mm Stone — 2/2					
Qty. → 5 Nos.					
(12) providing and fixing					
of Retro reflectors					
Cautionary — 2/2					
(1) 600mm equilateral					
Qty. → 6 Nos.					

Continuation

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
⑪ 600mm circular				2/1
Qty → 4 Nos				
⑫ 600mm x 950mm				
Rectangular				2/1
Qty → 2 Nos				
⑬ Providing & Paving of typical masonry				
informal sign post				2/1
Qty → 3 Nos				
⑭ Providing m/s grade				
Boundary pillars				2/1
Qty → 10 Nos				
⑮ Providing & Paving of trees & their				
maintenance				2/1
Qty → 5 Nos.				
i.e. = 5.0 Nos.				
⑯ Providing Road				
Marking				2/1
For PCC Postbox				
2 X 400mm X 0.10m				80.00 m ²
For BT Postbox				
2 X 705mm X 0.10m				14/m ²
				22/m ²
				i.e. = 22/m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(17) Providing and Laying					
Paving Coat (55) — 2H					
20 X 30m				3.75m	= 2250m ²
1 X 25m				3.75m	= 93.75m ²
30m				$\frac{3.70 + 3.10}{2}$ m	= 102.0m ²
30m				$\frac{2.10 + 2.40 + 2.60}{3}$ m	= 90.999m ²
20m				$\frac{2.6 + 3 + 2.50}{3}$ m	= 54.00m ²
Working as a curve					
20m				$\frac{3.95 + 0}{2}$ m	= 39.5m ²
24m				0.15m (GV)	= 3.60m ²
					<u>2633.85m²</u>
(18) Providing and Laying					
Tack Coat (PS) — 2H					
Qty same as Qty vide					
TMB P-47 item No (17)					
					ie = 2633.85m ²
(19) Providing, Laying and					
Rolling of Close graded					
Premix Surfacing — 2H					
Qty same as Qty vide					
TMB P-47 Item No. (17)					
					ie = 2633.85m ²
Provided					
20.10.23					
JE					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abstract of cost					
(1/1) Providing & Fixing					
Working Benchmarks — 2/2					
Qty vide TMBP P-41					
Item No. ① i.e. = 1 No					
② 4145.8/Each				Rs	4146=00
(2/2) providing Reference					
Pillars — — — — —				E/R	
Qty vide TMBP P-41					
Item No. ② i.e. = 5 Nos					
③ 1918.91/Each				Rs	9595=00
(3/3) Clearing and					
Grubbing Road Land					
including — — — — —					
Qty vide TMBP P-41					
Item No. ③					
i.e. = 0.3868 Hec					
④ 52970.33/Hec				Rs	20489=00
(4/4) Excavation for					
Roadwork in soil					
with Hydraulic — — — — —					
Qty vide TMBP P-42					
i.e. = 291.62 m ³					
⑤ 75.57/m ³				Rs	2238=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
5/5 Construction of Embankment with material — ^{2/4} Lead up to 100m — ^{2/4}					
Qty vide TMBP-42					
Item No. 5					
i.e. 627.345m ³					
@ 190.07/m ³					Rs. 119239 ⁰⁰
6/6 Construction of Embankment — ^{2/4} Lead up to 100m					
Qty vide TMBP-42					
Item No. 6					
i.e. 1463.805m ³					
@ 154.28/m ³					Rs. 225836 ⁰⁰
7/7 Construction of Subgrade and earth Shoulder — ^{2/4}					
Qty vide TMBP-43					
Item No. 7					
i.e. 591.425m ³					
@ 191.76/m ³					Rs. 113412 ⁰⁰
8/8 GSB Construction of Granular Sub base — ^{2/4}					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty wide TMB P-44					
Item No (8)					
585.66m ² i.e. = 585.66m ²					
@ 3233.98/m ²				Rs.	1893720 ⁰⁰
9/28 WBM G.M.II					
Providing, laying, spreading and compacting WBM G.M.II - 4					
Qty wide TMB P-45					
Item No (9)					
311.959m ² i.e. = 311.959m ²					
@ 4022.64/m ²				Rs.	1254899 ⁰⁰
10/13 Cement concrete Pavement - Construction of Unreinforced, Plain cement concrete Pavement ——— 2/2					
Qty wide TMB P-45					
Item No (10)					
i.e. = 244.088m ²					1851295 ⁰⁰
@ 7584.57/m ²				Rs.	1846413 ⁰⁰
11/15 Providing M15 Grade km stone ——— 2/2					
Qty wide TMB P-45					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item No. (11)					
i.e. 2 Nos					
② 24/0.54/Each				Rs	9821=
(12/16) Providing and					
200mm stone				Rs	
Qty vide TMB P-45					
Item No. (11)					
i.e. 5 Nos					
② 637.45/Each				Rs	3187=
(13/17) Providing and					
fixing of typical					
mmssy boxes (NDB)					
information sign				Rs	
Qty vide TMB P-46					
Item No. (13)					
i.e. 3 Nos.					
② 9706.46/Each				Rs	29119=
(14/18) Providing and					
fixing of Reton				Rs	
600mm equilateral					
4 testable				Rs	
Qty vide TMB P-45					
Item No. (12)					
i.e. 6 Nos.					
② 3702.56/Each				Rs	22215=

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15/19) Providing and fixing Retros - 2/1					
600mm Circular - 2/1					
Qty vide TMB P-46					
Item No (12)					
i.e. = 4 Nos					
@ 4714.83/Each					Rs 18859.20
(16/20) Providing and fixing Retros - 2/1					
600mm x 450mm					
Rectangular - 2/1					
Qty vide TMB P-46					
Item No (12)					
i.e. = 2 Nos					
@ 4611.21/Each					Rs 9222.42
(17/21) Providing RCC M/S Grade boundary Pillars - 1/1					
Qty vide TMB P-46					
Item No (14)					
i.e. = 10 Nos					
@ 536.20/Each					Rs 5362.00
(18/22) Providing planting of trees by the					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Road side				2 1/2	
Qty vide TMBP-46					
i.e = 5.0 Nos.					
② 842.62/each				Rs.	42131 ⁰⁰
19/23 Provisioning Road					
marking with Hot					
applied				2 1/2	
Qty vide TMBP-46					
Ham No 16					
i.e = 221.00m ²					
② 721.95/m ²				Rs.	159551 ⁰⁰
20/24 Excavation of					
foundation of CD					
works				2 1/2	
Qty vide TMBP-5					
i.e = 115.68m ³					
② 279.03/m ³				Rs.	32285 ⁰⁰
21/25 Provisioning and					
Laying 1st class bedding					
				2 1/2	
Qty vide TMBP-6					
i.e = 14.91m ³					
② 493.78/m ³				Rs.	7362 ⁰⁰

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(22/26) Providing Concrete for Plain/ Reinforced concrete in Open —————				2 1/2	
Qty vide TMB P-16 i.e. = 10.16 m ³					
② 6064.28/m ³					Rs. 63432.00
(23/27) Providing brick masonry work in CM(1:4) —————				2 1/2	
Qty vide TMB P-27 P-29					
i.e. = 60.57 + 38.35 i.e. = 98.92 m ³					
② 5986.11/m ³					Rs. 59454.00
(24/28) Providing and Laying RCC Pipe NB ₃ 600mm dia —————				2 1/2	
Qty vide TMB P-8 i.e. = 7.50 m					
② 2638.03/m					Rs. 19785.00
(25/29) Providing and Laying RCC Pipe NB (1 X 1000mm dia) —————				4 1/2	

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty vide TMBP-8					
P-8		i.e. = 15 m			
① 4006.80/m				Rs. 60/02	
② 3687.69/m				Rs. 55270	
26/30 providing and					
Laying of NP3 RCC					
Header Pipe				2/1	
Qty vide TMBP-7					
		i.e. = 15 m			
① 4006.80/m				Rs. 60/02	
27/31 providing					
Plastering with					
CM (1:4)				2/1	
Qty vide TMBP-10					
		i.e. = 127.18 m ²			
① 86.70/m ²				Rs. 23715	
28/10 providing and					
Laying of stone coat					
(SS1)				2/1	
Qty vide TMBP-47					
Header No. (17)					
		i.e. = 2633.85 m ²			
① 41.17/m ²				Rs. 108436	
29/11 providing and					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Applying tack coat					
(Rs.)					
Qty vide TMBP-47					
Item No (18)					
i.e. = 2633.85m ²					
② 14.07/m ²					Rs. 37058 ⁰⁰
30/11/2017 Providing painting					
Qty vide TMBP-47 i.e. = 127.18m ²					Rs. 17784 ⁰⁰
② 139.83/m ²					
50/12/2017 Providing, Laying					
and Rolling of					
close graded Premix					
surfacing					
Qty vide TMBP-47					
Item No (19)					
i.e. = 2633.85m ²					
② 207.33/m ²					Rs. 546016 ⁰⁰
Total					Rs. 7337427 ⁰⁰
					Rs. 7355211 ⁰⁰
Add GST @ 12% i.e. =					Rs. 880491 ⁰⁰
Add L. cess @ 1% i.e. =					Rs. 73374 ⁰⁰
					Rs. 8291292 ⁰⁰
Less 10.96% Below					
as per Agreement i.e. =					Rs. 908726 ⁰⁰
					Rs. 7382566 ⁰⁰
Less Previous					Rs. 7400460 ⁰⁰
Payment					i.e. = Rs. 5883556 ⁰⁰
					Rs. 74599010 ⁰⁰
					Rs. 1516909 ⁰⁰

Continuation

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