N/scheme:-- Alaudhinchak to Manoza Gumti
length:- 0.705 K.M.
MMGSY NDB Borcks

Shedule XLV Form No. 134.

M/cont:- Baijnath Nirman India Pvt Ltd.

Agm:- 05/SBD/2021-22

DIVISION

SUB-DIVISION

सहा० अभि०:- पुनपुन

Measurement Book

M.B No:- 1239

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 measurements relating to each work).

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work - Construction with Five years Maintenance of road from Alaudhari to Manora Gumti (Package - MMGSY-NDB-BRRP-220 - Masaurhi) under MMGSY (NDB) BRICKS) in Block Punpun.					
N/Agency - Baij Nath Nirman India Pvt Ltd., East Gandhi Maidan, Jehanabad.					
Agmt. - 05/SBD/2021-22					
Start date - 9.6.2021 (LAO)					
Int. date of Comp - 8/6/2022					
Work done					
(1/13) P/V & Fixing MMGSY BRICKS (NDB) Sign Board					
Logo Board					1 No
C.I. Board ~~Maint. Board~~					1 No
				Total .=	2 Nos
(2/2) Clearing & grubbing road land.					
	5 x	30.00 x	5.00 (Av)	=	750.00 m2
	7 x	30.00 x	4.50 (Av)	=	945.00
	5 x	30.00 x	4.50 (Av)	=	675.00

Continuation =

Sch. XLV-Form No. 134 = 2370.00 M2

Particulars	No.	L.	B.	D.	Contents of area
	1x	18.00 x 5.00(Av) =			90.00
				=	2460.00 M2
				≃	0.246 Hect
(3/3) Excavation of roadway in soil with manual means — do —					
	2x3x	25.00 x	0.50 x	0.10 =	7.50 M3
	2x4x	30.00 x	0.50 x	0.10 =	12.00
	2x5x	30.00 x	0.50 x	0.10 =	15.00
				=	34.50 M3
(4/4) Construction of sub grade & shoulder — do — spread.					
	2x	30.00 x	5.00(Av) x	0.30 =	90.00 M3
	1x	25.00 x	5.00 x	0.30 =	37.50"
	2x	30.00 x	5.00(Av) x	0.30 =	90.00.
				=	217.50 M3
(5/1) Setting out pillar — do — Cap					
Gemti to NH83	1x	528.90M		=	528.90M
			≃		0.530 KM.

24.2.22
JE

24/2/22
AE

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Record Entry					
(1/7) Construction of G.S.B.					
GSB — do — do					
In widening					
Both side.	2×2×	30.00×	0.475×	0.10 =	5.70 m³
	2×1×	15.00×	0.475×	0.10 =	1.43 "
	2×4×	30.00	0.475 ×	0.10 =	11.40 "
	2×5×	30.00×	0.475×	0.10 =	14.25
Profile correction (full area)					
	2×	30.00	3.75	0.10 =	22.50
	1×	25.00	3.75	0.10 =	9.38
	2×	30.00	3.75	0.10 =	22.50
			Total Qty	=	87.16 m³
(signature) 23/4/22			(signature) 23/4/22 BE		
	Record Measmt				
(1/8) P/V & Laying WBM Gr3					
do — do Gr2					
from Gumli to NH83 VCO Kolobagan					
	1×	7.80×	5.05(A)×	0.075 =	3.22 m³
	1×	20.50×	5.20(A)×	0.075 =	8.00
	1×	1.30×	4.70(A)×	0.075 =	0.46
	1×	7.10×	4.60(A)×	0.075 =	2.45
	1×	17.80×	4.60(A)×	0.075 =	6.14
	1×	21.50×	4.10	×0.075 =	6.61

Continuation = 26.88 m³

Sch. XLV-Form No. 134 BF : 26.88 m²

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	1	18.80	$\frac{3.75+4.70}{2}$	0.075	= 5.96 m²
Curve –	1	10.00	$\frac{4.70+3.75}{2}$	0.075	= 3.17
	1	11.00	$\frac{3.75+3.90}{2}$	0.075	= 3.16
	1	14.00	$\frac{3.90+4.30+3.90}{3}$	0.075	= 4.23
	1	14.00	$\frac{3.90+3.70+4.10}{3}$	0.075	= 4.16
	1	10.00	$\frac{4.90+5.30+4.10}{3}$	0.075	= 3.57
	1	14.60	$\frac{4.10+3.90+4.10}{3}$	0.075	= 4.12
	1	3.70	$\frac{4.10+5.50}{2}$	0.075	= 1.33
	2	4.40	5.50	0.075	= 0.74
	1	1.60	$\frac{5.50+3.75}{2}$	0.075	= 0.56
	3	15.00	3.75	0.075	= 12.66
	1	10.00	$\frac{3.75+4.10}{2}$	0.075	= 2.94
	1	10.00	$\frac{4.10+3.75}{2}$	0.075	= 2.94
	2	25.00	3.75	0.075	= 14.06
	1	9.50	3.75	0.075	= 2.67
	1	10.00	4.30	0.075	= 3.23
	1	22.00	4.15	0.075	= 6.85
	1	12.00	$\frac{4.15+4.60}{2}$	0.075	= 3.94
	1	8.50	$\frac{4.60+3.90}{2}$	0.075	= 2.71
	1	13.10	$\frac{3.90+4.35}{2}$	0.075	= 4.05
	1	10.00	$\frac{4.35+3.75}{2}$	0.075	= 3.04
	9	15.00	3.75	0.075	= 37.97

= 154.94 m²

Continuation

Sch. XLV-Form No. 134 BF = 154.94 m³

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	1 × 5.00 × 3.75 ×			0.075 =	1.41
	1 × 5.70 × 3.75 + 4.90 / 2 ×			0.075 =	1.85
	1 × 5.00 × 4.90 + 9.21 / 2 ×			0.075 =	2.65
	In Ramp.				
Left side	1 × 3.30 × 6.40 + 4.25 / 2 ×			0.075 =	1.27
Left side	1 × 4.10 × 5.10 + 3.50 / 2 ×			0.075 =	1.32
	~~1 × 4.00 × 3.75 × 0.075 =~~				
	1 × 1.40 × 4.00 ×			0.075 =	0.30
				=	163.74 M.S
	Record Measn				
(19)	Unreinforced Cement Concrete				
	Percent - M-30				
	From Manora Guwahati				
	1 × 7.80 × 5.50 + 6.60 / 2			=	39.39 m²
	1 × 20.50 × 5.70 + 5.40 + 4.50 / 3			=	106.60 "
	1 × 1.30 × 4.50 + 4.90 / 2			=	6.11 "
	1 × 7.10 × 5.00 + 4.20 / 2			=	32.66 "
	1 × 17.80 × 4.50 + 4.70 / 2			=	81.88 "
	1 × 21.50 × 4.10			=	88.15 "
	1 × 18.80 × 3.75 + 4.70 / 2			=	79.43 "
	1 × 10.00 × 4.70 + 3.75 / 2			=	42.25 "
	1 × 11.00 × 3.75 + 3.90 / 2			=	42.08 "
	1 × 14.00 × 3.90 + 4.30 + 3.90 / 3			=	56.47 "

Continuation

Sch. No. 134

Particulars	Details of actual mensurement No.	L.	B.	D.	Contents of area
	1 × 14.00 ×	3.90 + 4.90 / 2		=	61.60 M2
	1 × 10.00 ×	4.90 + 5.30 + 4.10 / 3		=	47.67
	1 × 14.60 ×	4.10 + 3.90 + 4.10 / 3		=	58.89
	1 × 3.70 ×	4.10 + 5.50 / 2		=	17.76
	1 × 4.40 ×	5.50		=	24.20
	1 × 1.60 ×	5.50 + 3.75 / 2		=	7.40
	1 × 30.00 ×		3.75	=	112.50
	1 × 15.00 ×		3.75	=	56.25
	1 × 10.00 ×	3.75 + 4.10 / 2		=	39.25
	1 × 10.00 ×	4.10 + 3.75 / 2		=	39.25
	2 × 20.00 ×		3.75	=	150.00
	1 × 19.52 ×		3.75	=	73.13
	1 × 10.00 ×		4.30	=	43.00
	1 × 22.00 ×		4.15	=	91.30
Curve	1 × 12.00 ×	4.15 + 4.60 / 2		=	52.50
"	1 × 8.50 ×	4.60 + 3.90 / 2		=	36.13
Curve	1 × 13.10 ×	3.90 + 4.15 / 2		=	52.73
"	1 × 10.00 ×	4.30 + 3.75 / 2		=	40.25
	4 × 30.00 ×		3.75	=	450.00
	1 × 20.00 ×		3.75	=	75.00
	1 × 5.70 ×	3.75 + 4.90 / 2		=	24.65
	1 × ~~4.90~~				
End of NH 83	1 × 5.00 ×	4.90 + 9.25 / 2		=	35.38
	528.90 M			Area.	= 2163.86 M2
		Qty = 2163.86 × 0.160 =			346.21 M3

(2/6) Construction of sub-grade & earthen shoulders.

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Both Edge	2×17×30.00×0.10			=	102.00M2
	2×1×18.90×0.10=				3.78
Zebra Crossing					
	5×	3×3.75×		0.10=	5.63m2
				=	111.40M2
(2/10) Laying Brick soling					
On prepared sub grade					
[illegible]					
	1×4×30.00×			0.25=	30.00 M2
	1×	12.00	×	0.25=	3.00
	1×2×	30.00	×	0.25=	15.00
	1×1×23.30×			0.25=	5.83
	1×11×	30.00	×	0.25=	82.50
	1×1×20.80		×	0.25 =	5.20
	1×11×	30.00	×0.25	=	82.50
	1×	20.50	×0.25	=	5.13
					=229.16M2
(3/11) Fixing KM. stone — do					
		Total. 2Nos			
(4/12) 200M. Stone Boxes					
		Total — 3Nos			
(5/14) 600mm equilateral sign					
		Total — 6Nos			
(6/15) 600 mm Circular sign					
		Total. 4Nos			
(7/16) 600×450mm Rect sign					
		Total. 2Nos			

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(8/7) Priming Bar Dry Pulla					
	2+4 Nos = 8 Nos				
(9) Construction of Em. 2/4					
do — do					
Asper Level graph & Calculate Sheet					

S.No	CH (M)	Area (C/S) (M²)	Mean Area (M²)	Distance (M)	Volume M3
1	00	1.717	—	—	—
2	50	2.524	2.121	50.00	106.03
3	100	3.090	2.807	50.00	140.35
4.	150	4.757	3.924	50.00	196.18
5	200	4.718	4.738	50.00	236.88
6.	250	4.757	4.738	50.00	236.88
7.	300	4.671	4.714	50.00	235.70
8.	350	4.873	4.772	50.00	238.60 ~~234.83~~
9.	400	4.549	4.771	50.00	235.55 ~~239.35~~
10.	450	4.824	4.687	50.00	234.33
11.	500	4.75	4.787	50.00	239.35
12.	529	4.599	4.675	29.00	135.56

Total Qty (with Cmst) = 2235.39 M³ (a)

Deduction of Cmst

(I) Subgrade & shoulder — 364.59 M³

(II) GSB. Qty — — = 87.16 "

(III) WBM. Gr 3 — — = 163.74 "

(IV) C.C. Pavement = 346.21 M³

= 961.70 M³ (b)

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	

Continuation

PT.O

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Embkt Qty = (a − b)					
= 2235.39 − 961.70 = 1273.69 M³ (C)					
(A) 30% Qty of (C) obtained lab to land 1000 M					
= 1273.69 × 30/100 = 382.10 M³					
(B) 70% Qty of (C) W.C.Bkt lane upto 1000 M.					
= 1273.69 × 70/100 = 891.59 M³					
4.6.22 JE		4/6/22 AE			

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	

ABSTRACT OF COST.

(1/1) Setting out reference pillar & working B. Mark

= 0.530 KM (P-2, 94 5/1)

@ 11107=65/KM —— ₹ 5887=00

(2/2) Clearing & grubbing road. Land — do —

= 0.246 Hact (P/2, 94 2/2)

@ 52998=20/Hact —— ₹ 13038=00

(3/3) Excavation for roadway do —— do — — cum

= 34.50M³ (P-2, 94 3/3)

@ 75=57/M³ —— ₹ 2607=00

(4/4) Constn of Embt with lead up to 1000M's — do

= 382.10M³ (P-11, 94 (9), Mark (A))

Limit — 380.55M³

@ 222=68/M³ —— ₹ 84741=00

(5/5) Constn of Embt. with lead up to 1000Mt — do

= 891.59M³ (P-11, 94 (9), Mark (B))

Limit — 887.95M³

@ 185=15/M³ —— ₹ 164404=00

(6/6) Constn of Sub. grade & Shoulder — do — do

= 217.50M³ (P-2, 94 4/6)

= 147.09M³ (P-7, 94 2/6)

= 364.59M³

Continuation

Limit — 335.38 M³

@ 220=58/M³ —— ₹ 73978=00

344655=00

Sch. XLV-Form No. 134 B/F ₹ 3,44,655=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(7/7) Const of GSB. Gr I					
do ——do - - Etc					
= 87.16M³ (P-3, 9+ 1/7)					
@ 2606=75/M³ ———					₹ 227204=00
(8/8) Laying & compacting					
WBM. Gr3 ——do ——					
Cop job. - ——Etc					
= 163.74M³ (P-5, 9+ 1/8)					
@ 3449=41/M³ ———					₹ 564806=00
(9/9) Const of Unreinforced CC.					
pavement M-30 ——do ——					
Cab - - - ——Etc					
= 346.21M³ (P-6, 9+ 1/9)					
@ 6279=39/M³ ———					₹ 2173988=00
(10/10) Laying Brick soling					
layers ——do ——do					
= 229.16M² (P-8, 9+ 2/10)					
@ 485=02/M² ~~352=~~ ———					₹ 111147=00
(11/11) Fixing K.M. Stone					
= 2Nos (P-8, 9+ 3/11)					
@ 2192=87 each ———					₹ 4386=00
(12/12) 200M. Stone Precast					
= 3Nos (P-8, 9+ 4/12)					
@ 941=83 each ———					₹ 1839=00
(13/13) MMGSY(NDB) Sign Board					
= 3Nos (P-1. 9+ 1/13)					
@ 9411=81-each ———					₹ 28235=00

Continuation ₹ 34562.60=00

Sch. XLV-Form No. 134 B.P. 3456260/-

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(14/14) 600 mm equilateral triangle					
Sign — do —					
= 6 Nos (P-8, It-5/14)					
@ 3454=24 each —					₹ 20725=00
(15/15) 600 mm Circular sign					
= 4 Nos (P-8, It- 6/15)					
@ 4628=48 each —					₹ 18514=00
(16/16) 600 x 450 mm Rect- sign					
= 2 Nos (P-8, It- 7/16)					
@ 4508=28 each —					₹ 9017=00
(17/17) Boundary Pillar — do —					
= 8 Nos (P-9, It- 8/17)					
@ 515=46 each —					₹ 4124=00
(18/18) Road Marking with hot applied thermoplastic)					
= 111.40 M² (P-8, Item 1/18)					
@ 722=30/M² —					₹ 80464=00
					₹ 35,89,104=00
Add. Lab Cess @ 1% —					₹ 35891=00
Add. GST. @ 12% —					₹ 430692=00
Add. Seig Fee.					
(i) Const+Sub grade Qty=1603.88 M³ @ 3=48/M³ — ₹ 5582=00					
(ii) GSB. Gr I. Qty = 87.16 M³ @ 55=92/M³ — ₹ 4874=00					
(iii) WBM. Gr 3 Qty- 163.74 M³ @ 71=43/M³ — ₹ 11696=00					
(iv) C.C. Pavt. M30 Qty- 346.21 M³ @ 60=29/M³ — ₹ 20873=00					
(v) Brick soling Qty- 229.16 M² @ 33=19/M² — ₹ 7606=00					

Continuation
= 50631=00 — (+) 50631=00

₹ 4106318=00

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B/F	₹	4106318	
Less 1.11% below			(-)	45580	
			₹	4060738	
4.6.22 JE		4/6/22 AE			
			14/06/22		

Material Statement

(I) Earth Qty - - - - - = 1603.88 m³

(II) Stone Metal Aggregate - - - = 271.34 M³

(III) Stone Screening (11.2mm Size) = 39.29 M³

(IV) Coarse Sand - - - = 187.17 M³

(V) Stone Chips - - - - = 311.59 m²

(VI) Bricks - - - = 12329 Nos

4.6.22 JE		4/6/22 AE			