NH-98 + Amba Bigha

Shedule XLV Form No. 134.

ARWAL DIVISION

ARWAL SUB-DIVISION

778

Measurement Book

Sch. XLV - Form No. 134

ARWAL DIVISION

ARWAL SUB-DIVISION

Measurement Book

No. 778

Name of Officer _____

_____

Date of first entry _____

Date of last entry _____

Schedule XLV-Form No. 134

NOTES

REFERENCE TO P.W.A. CODE, Chapter VII
Para 30 & 31

1. In recording detailed measurements, the following general instructions should be carefully observed.

Executive Engineer
P.W.D. (W) Division
Amreli

(a) Subject to such subsidiary rules as may be laid down by the local Government detailed measurements should be recorded only by Executive or Assistant Engineers or by Executive subordinates in-charges of work to whom measurement books have been supplied by the Executive Engineer for the purpose.

(b) All measurements should be bear taken down in a measurement book Form 23, issued for the purpose, no where else.

(c) Each set of measurement should commence with entries stating —

(i) In the case of bills for work done :-
  (a) Full name of wok as given in estimate
  (b) Situation of work
  (c) Name of contractor
  (d) Number and date of his agreement and
  (e) Date of measurement

(ii) In case of bills for supply for materials :-
  (a) Name of Supplier
  (b) Number and date of his agreement for order,
  (c) Purpose of supply in one of the following forms applicable of the case —
  (i) "Stock" (for all supply for stock purpose)
  (ii) "Purchase" for direct issue to the work (full name of work as given in estimate may be mentioned)
  (ii) "Purchase" for (full name of work as given in estimate) issued to contractor ..... and ..... on .....

(d) Date of measurements and should end with the Paid initials of the officer marking the measurement, see also paragraph 25)

A suitable abstract should than be prepared which / should collect in the case of measurement for work done, the total quantities of each distinct item of work relating to each sanctioned sub-head.

(e) As all payments for work supplies are based on the quantities recorded in the measurement books it is incumbent upon the person taking the measurement to record the quantities clearly and accurately If the measurements are taken in connection with a running contract account on which work has been previously measured he is further responsible (1) that reference to the last set of measurements is recorded and (2) that if the entire job or contract has been completed the fact is recorded prominently just above his initials.

(f) Entries should be record continuously in the measurement book No blank pages may be left and no page be turn out. Any page left in advertently must be cancelled by diagonal lines. The cancellation being attested. See also paragraph or the Public Work Department Code.

(g) No entry may be erased, of a mistake is made it should be correct (and dated) by the responsible officer in the manner prescribed in paragraph 335 of the Public Works Department Code When any measurements are cancelled, the cancellation, must be supported by the dated initials of the officer ordering the cancellation or by reference to his orders installed by the officer who made the measurements In either case the reason for cancellation should be recorded.

Each measurement book should be provided with an index which should be kept up to date

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 No.	L.	B.	D.	Contents of area
Name of work – NH 98 to Ammabigha					
Agency – Shri Abhishek Kumar.					
Agreement no – MR-N 21-22 Arwal/01					
Date of start – 03-09-2021 (As per Agreement)					
Date of completion – 02-06-2022 (As per Agreement)					
~~P.O.C upto actual work in progress~~ Below – 0.0%					
1) clearing and grubbing road land					
	10	30.00m	2.00m		600.00m²
	11	30.00m	2.00m		660.00m²
	8	30.00m	2.00m		480.00m²
	6	30.00m	2.00m		360.00m²
	1	25.00m	2.00m		50.00m²
					2150.00m²
					~~0.22 Ha~~
					0.215 Ha
2.) Box Cutting excavation for roadway in soil using mechanical means					
BT side	15	30.00m	0.70m	2.00m	22.50m³
	1	25.00m	0.75m	2.00m	3.75m³

Abstract of Cost

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(1/1) Clearing and grubbing road Land ——— CII					
Qty = 0.215 vide T.M.B.P - 11)					
@ Rs 53879.81/Ha Rs 11584 =00					
(2/2) Excavation for roadway in soil using manual means ... as per Technical specification.					
Qty = 53.25 m³ vide T.M.B.P. (2)					
@ Rs 75.61/m³ — Rs 4026 =00					
(3/4) Construction of Granular Sub-base by providing well graded materials. — as per T/S					
Qty = 136.00 m³ vide T.M.B.P (3)					
@ Rs 2088.75/m³ Rs 284070 =					
(4/5) P/W laying, spreading and compacting stone Aggregates of WBM grade III as per T/S clause ...					
Qty = 27.455 m³ vide T.M.B.P (4)					
@ Rs 3317.29/m³ — Rs 91076 =00					
(5/6) P/W Laying spreading and compacting stone Aggregate of specific grade to WBM grade III as per T/S.					
Qty = 131.25 m³ vide T.M.B.P (4)					
@ Rs 3048.12/m³ — Rs 400066 =					
					Rs 790822 =00

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
		13·F			₹ 79082.2=00
(6/7) P/V and applying primer coat with Bitumen emulsion (SS-1)					
Qty = 1184.119 m² V·T·M·B·P (5)					
		@ ₹ 42.25/m²			₹ 50029=00
(7/8) P/V, Laying and rolling of close-graded premix surfacing material of 20mm thickness compacted.					
Qty = 1184.119 m² V·T·M·B·P (5)					
		@ ₹ 193.46/m²			₹ 229079=00
(8/9) P/V and applying tack coat with bitumen emulsion using					
Qty = 3996.619 m² V·T·M·B·P (5)					
		@ ₹ 16.97/m²			₹ 67822=00
(9/10) P/V and Laying Semi dense bituminous Concrete complete mat as per specs.					
Qty = 70.31 m³ V·T·M·B·P (5)					
		@ ₹ 10264.56/m³			₹ 721701=00
					₹ 1859453=

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B/F —		₹ 1859453=00
(10/11) Construction of un-reinforced plain cement thickness as per design — 7½ c					
Qty = 154.3482 m³ - V.T.M.B.P - (6)					
@ ₹ 5328.37/m³ —					₹ 822424=00
(11/18) providing and laying of Hot applied thermoplastic Graphed					
223 233.0 m² - V.T.M.B.P - (6)					161719
@ ₹ 721.96/m² —					₹ 168277=00
(12/19) providing and fixing of typical mercy informatory signboard with logo					
Qty = 1 No - V.T.M.B.P - (7)					
@ ₹ 8782.65/each —					₹ 8783=00
		285279			₹ 9858877=
Add 12% GST —					₹ 343065=00
Add 1% L.C —					₹ 28588=00
					₹ 53230530=
		Ravi 31/8/22 A.E			31/08/22 J.C C&P
285279					
Add 12% -	34228 5				
Add 1%	2852 4				
S. Fee -	45	87			3268375/ 31.8.22

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Statement of materials					
USR					
Stone 53 mm to 9.5 mm					
= 39.98 m³ @ ₹ 657.85/m³					
Stone - 9.5 mm to 2.36 mm					
= 28.56 m³ @ ₹ 454.58/m³					
Local sand 48.96 m³					
@ ₹ 141.85/m³					
WBM Gr. II					
Stone materials Grading II					
63 mm to 45 mm = 33.22 m²					
@ ₹ 480.64/m²					
Stone screening 38.91 m³					
@ ₹ 159.97/m³					
WBM Gr. IV					
Stone materials Gr. IV					
53 mm to 22.4 mm					
= 158.81 m³					
@ ₹ 511.44/m³ - ₹					
SS-1 - 1.006501 15 Ton					
RS-1 - 1.198257 Ton					
S-90 - 10.452023 Ton					
Stone chips 9.5 mm - 4.75 mm to					
57.31 m³ @ ₹ 582.80/m³					
4.75 mm Stone dust =					
43.23 m³					
@ ₹ 251.35/m³					

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
MMS.					
Stone chips - 35.52 m³					
@ ₹523.37/m³					
P.C.C					
Stone Chips - 138.91 m³					
@ ₹581.99/m³					
Sand - 69.46 m³					
@ ₹175.80/m³					
Cement - 47.84792 Ton					
@ ₹4468.60/Ton					
31/8	22 A-6	31.08	12 3-28		

13th and Ac Bill

Memo of payment 3268375-

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1) S.D.S.Y.-Ks	—	—	1	634	19-
3) I.T.I.H.-Ky	—	—		32684-	
3) L.C.M.I.H.-Ky	—	—		32684-	
4) C.G.S.T.I.H.-Ky	—	—		32684-	
5) S.G.S.T.I.H.-Ks	—	—		32684-	
6) S.I.P. Ky	—	—		40232-	
7) Royalty Ky	—	—		95052-	
8) EOT 10% Ky	—	—	5	480231-	
(Agg value)	Total deduction			- 977470	
By cheque -				2290905-	
— do —				3268375-	

6/9/22

Executive Engineer
R.W.D (W), Division
Arwal

6/9/22

6/9/22

Indian Air Girl

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Name of work - NH98 to Assam bijhra					
Agency - Shri Abhishek Kumar					
Agreement no - MR-N/21-22 Arwal / 01					
Date of start - 03-09-2021 (As per Agreement)					
Date of completion 02-06-2022 (As per Agreement)					

Hume pipe culvert

(1.) Brick masonry in cm (1:3) in parapet.

4 x 2 x 6.20 x 0.40 x 0.90 = 17.86 m³

1 x 6.20 x 0.4 x 0.60 = 1.49 m³

1 x 2.50 m x 0.4 m x 0.60 = 0.60 m³

1 x 1.85 m x 0.40 m x 0.90 m = 0.67 m³

1 x 2.35 m x 0.40 m x 0.90 m = 0.85 m³

15.51 m³

1 x 1.85 x 0.4 x 100 m = 0.74 m³

22.20 m³

(2.) plastering with cement mortar (1:4)

Side face - 4 x 4.4 x 6.20 x 0.60 = 59.52 m²

Ri 2 x 1.00 x 6.20 x 0.60 = 7.44 m²

Abstract of Cost

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(1.) clearing and Grubbing road land — — L/S					
Qty = 0.215 Hect vide T.M.B.P (8)					
@ Rs 53878.81/Hect — Rs 11584 =					
(2.) Excavation for roadway in soil using manual Means for carrying of cut earth					
Qty = 53.25 m³ vide T.M.B.P — (8)					
@ Rs 75.61/m³ — Rs 4026 =					
3.1 Construction of Subgrade and Earthen Shoulder					
Qty = 602.25 m² vide T.M.B.P (19)					
@ Rs 191.82/m² — Rs 115511 =					
(4) Construction of granular Sub base by providing well graded materials					
Qty = 136.00 m³ vide T.M.B.P — (8)					
@ Rs 2088.75/m³ — Rs 284070 =					
(5) providing Laying, Spreading and Compacting Stone aggregates of Specified Sizes to WBM-II					
Qty 27.455 m³ vide T.M.B.P (8)					
@ Rs 3317.29/m³ — Rs 91076 =					
					Rs 506567 =

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
		B.F ——			Rs 506567 =
(6) providing, Laying spreading and Compacting stone aggregates of Specific sizes to WBM Gr-III					
Qty = 131.25 m³ vide T.M.B.P - (8)					
@ Rs 3048.12/m³ —— Rs					400066 =
7) providing and applying primer coat with Bitumen emulsion (SS-1)					
Qty = 1184.119 m² vide T.M.B.P - (9)					
@ Rs 42.25/m² —— Rs					50029 =
(8) providing, Laying and rolling of close-graded premix Surfacing material of 20mm thickness Compacted.					
Qty = 1184.119 m² vide T.M.B.P - (9)					
@ Rs 193.46/m³ —— Rs					229079 =
(9) providing and applying tack coat with bitumen emulsion using					
Qty = 3996.619 m² V.T.M.B.P - (9)					
@ Rs 16.97/m² —— Rs					67822 =
(10) PIV and Laying Semi dense bituminous Concrete Complete					
Qty = 70.91 m³ - V.T.M.B.P - (9)					
@ Rs 10264.56/m³ —— Rs					721701 =
Continuation					Rs 1975264 =

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
		B.F	——	——	Tk 1975264 =
(11) Construction of un-reinforced plain Cement thickness as per ref design					
Qty = 154.182 m³ V-T-M-B-P (10)					
	@Tk 5328.37/m³				Tk 822424 =
(12) Kilometre stone					
K.M-Stone					
Qty = 3 NOS V-T-M-B-P (17)					
	@Tk 1970.89/each				Tk 5913 =
Room Stone					
Qty = 4 NOS V-T-M-B-P (17)					
	@Tk 581.34/each				Tk 2325 =
(13) Retro-reflectorised traffic sign providing and erecting direction and place					
Qty = 3.84 m² V-T-M-B-P (17)					
	@Tk 11611.85/m²				Tk 44589 =
(14) providing and fixing of retro-reflectorised cautionary mandatory and informatory Sign					
Qty =					
Common circular & triangle					
Qty = 20 NOS V-T-M-B-P (20) (17)					
	@Tk 3301.63/each				Tk 66032 =
Common Circular					
Qty = 3 NOS V-T-M-B-P (17)					
	@Tk 3497.46/each				Tk 10492 =
				Continuation	Tk 2927039 =

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
		B.F	———	———	Rs 2927033=
600mm x 450mm rectangular					
qty = 4 Nos - V.T.M.B.P - (17)					
		@Rs 3373.12/each			Rs 13492=
900mm side octagon					
qty = 3 Nos V.T.M.B.P - (18)					
		@Rs 7218.18/each			Rs 21654=
15) Reinforced cement concrete M.15 grade boundary pillar					
qty = 68 Nos - V.T.M.B.P - (18)					
		@Rs 505.05/each			Rs 34343=00
(16) planting of trees by the road side					
qty = 38 Nos - V.T.M.B.P - (18)					
		@Rs 853.76/each			Rs 32442=
(17) providing and laying of hot applied thermo plastic compound					
qty = 224 - V.T.M.B.P - (10)					
qty = 9 - mm' V.T.M.B.P (12)					
233m²					
		@Rs 721.96/m²			Rs 168217=00
(18) providing and fixing of typical masonry information sign board with Logo					
					Rs 3197187=

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
		B.F ——			৳ 3197187=
(19)					
Qty 1 no	V.T.M.B.P – (10)				
Qty 3 Nos	V.T.M.B.P – (18)				
4 Nos					
	@ ৳ 8782.65/each = ৳ 35131=				
9) Earthwork excavation for structures – –					
Qty 67.50 m³ – V.T.M.B.P – (16)					
	@ ৳ 283.94/m³ — ৳ 19165=				
20) providing P.C.C M.15 (1:2.5:5) Concrete for plain concrete in open foundation					
Qty = 6.56 m³ – V.T.M.B.P – (16)					
	@ ৳ 4324.23/m³ = ৳ 28367=				
21) Brick masonry work in Cement mortar (CM 1:4) in foundation complete.					
Qty = 65.41 m³ – V.T.M.B.P (16)					
	@ ৳ 5758.60/m³ – ৳ 376670=				
22) providing Concrete for plain / concrete M-20 in Coping over protection wall					
Qty = 1.50 m³ – V.T.M.B.P (16)					
	@ ৳ 5059.37/m³ – ৳ 7589=				
					৳ 3654109=
					3654109

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	B.F				Tk 3664109=
(23) providing weepholes in brick masonary plain/ Concrete ~~abutment~~					
Qty = 50 Nos	V.T.M.B.P (13)				
	@ Tk 212.80/each				Tk 10640=
(24) plastering with cement mortar (1:4) on brick work in Sub-structure					
Qty = 70.00 m²	V.T.M.B.P (17)				
	@ Tk 133.35/m²				Tk 9334=
(25) Brick masonary work in cement mortar 1:3 in parapet					
Qty = 22.20 m³ Limit - 14.7	V.T.M.B.P (14)				86447=
	@ Tk 5801.80/m³				Tk 128799=
(26) plastering with cement mortar (1:4) on Brick work in Sub-structure					
Qty = 109.00 m²	V.T.M.B.P (15)				
	@ Tk 133.35/m²				Tk 13868=
(27) painting two coat Including primer coat after filling					
Qty = 104.00 m²	V.T.M.B.P (15)				
	@ Tk 101.61/m²				Tk 10567=
					Tk 3837317=
Continuation					3799965

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
		B.F.			3837317 = 3794965
Add 12 % S.T					455396 460478 =
Add 1% L.C					37950 38373 =
S/F		62803			17616 4336168 =
		435114			4288311 4305927
C/F.					07/10/22 J.G
	10/20		07/10/22 A-6		
Previous Payment (-)					3268375 =
	Net				1037552 = 1082735

2nd on A/C Bill

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
SD @ 5%	—	54,137			=
ID @ 1%	—	10,828			=
Cess @ 1%	—	10,828			=
SHT @ 1%	—	10,828			=
SHT @ 1%	—	10,828			=
SD	—	31,821			=
Royalty	—	24,995			
Deduction	—	1,54,265			
By Cheque	—	9,28,474			=
Gross	—	10,82,739			
Payable					

Ten lakh eighty two thousand Seven hundred thirty nine only.

Executive Engineer
R.W.D (W), Division
Anwal

Continuation