MMGSY – T03 to Gandhejam – 1.818 Km.
Name of Agency – Deodhari Yadav.

Shedule XLV Form No. 134.

Ag-No – 655BD: – 2019-20

RWD Shergharh

DIVISION

Dobhi

SUB-DIVISION

19-12-2019
to
18-12-2020

Measurement Book

MB no – 1161

Certified this MB is contain 01 to 100 pages Print by Machine only.
This MB issued to A.E. R.W.D (W) Sub div Dobhi

Executive Engineer
RWD, Works Division
Sherghati

8/5/20

Sch. XLV-Form No. 134

Sherghati DIVISION

Dobhi SUB-DIVISON

Measurement Book

No. 1161

Dt. of Work Start:- 19.12.19

Dt. of Work Comp:- 18.12.20

Name of officer _____

_____

Date of first entry _____

Date of last entry _____

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.	
		1st Floor A/c Bill			
Name of Work: Construction of road from To3 to Gandhi Jan.					
Name of Agency- Deodhari Yadav.					
~~Agt No~~ - 655 PD - 2019-20?					
Date of W/O:- 19-12-2019					
Date of Completion- 18-12-2020					
Date of measurement:- 3/6/21					
Chainage in M	Area in m^2	Mean Area in m^2	Length in m	Volume in m^3	
0M	3.0				
100M	4.0	3.50	100	350M^3	
200M	5.0	4.50	100	450M^3	
300M	5.5	5.25	100	525M^3	
400M	5.8	5.65	100	565M^3	
500M	4.0	4.90	100	490M^3	
600M	3.80	3.90	100	390M^3	
700M	4.20	4.01	100	400M^3	
800M	4.0	4.10	100	410M^3	
900M	4.2	4.10	100	410M^3	
				C.O. 3990M^3	

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area Volume
Chainage	Area	Mean Area	Length	B/F	3970M³
1000m	4.5	4.35	100	B/F	3970M³ 435M²
1100m	3.9	4.2	100		420M³
1200m	3.6	3.75	100		375M³
1300m	3.40	3.50	100		350M³
1400	3.80	3.60	100		360M³
1500	4.0	3.90	100		390M³
1600	4.2	4.10	100		410M³
1700	4.3	4.25	100		425M³
1760m	4.0	4.15	60		249M³ 415M²
		Grand total:-			7404M³
L.S.S	for	G.S	B.T		-
C.C	Road	Portion	—		-

268M x 3.75 x 0.10 c.f. 100.5M³

B.T. Portion:- 1492 x 4.05 x 0.20 = 1208.52M³

Net E/W:- 6094.98M³

2. Construction of Sub grade and earthen shoulders with approved material with Lead 1000m as per Sp:

79.50/- E/W of Item No-D Page-(2), or, 79.50/- x 6094.98 = 4845.51M³

3. Construction of embankment with approved material obtained from Borrow pits with left -1.5m and Lead-1000m.

Qty as per 20.5/- E/W of Item No-D Page-(2) (Continuation)

or, 20.5/- x 6094.98M³ = 1249.47M³

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	C.D. WORK				
4. E/W in excav^n of found^n of Structure as per drawing and technical spl^n.					
for 600mm dia - 1 Type - 1 NO					
Face wall :-	2	3.90	1.24	1.5	= 14.5 m³
Pepe portion :-	1	6.22	1.02	0.80	= 5.08 m³
for 1000mm dia 1 Type - 4 NO					
Face wall :-	4	2	6.30	1.4	1.5 = 105.84
Pepe portion :-	4	1	5.9	1.5	0.80 = 28.32
for - 2m x 2m Span :-					
Abut :-	2	7.6	2.30	1.60	= 55.94 m³
R/W :-	4	2.44	2.097	1.60	= 32.75 m³
				Total :-	242.44 m³
				Limited	231.160 m³
5. Providing plain Concrete in open found^n as per spl^n for - 600mm dia Type.					
F/W :	1	2	3.90	1.24	0.15 = 1.45
for - 1000mm dia Type -					
F/W :-	4	2	6.30	1.4	0.15 = 10.60 m³
for - 2m x 2m R.C.C. Culvert					
Abut :-	2	7.6	2.3	0.20	= 6.99 m³
R/W :-	4	2.44	2.097	0.20	= 4.09 m³
					23.13 m³
				Limited -	21.720 m³
6. Providing Concrete for Plain Concrete in open found^n as per spl^n for 600mm dia Type -					
	2	3.6	0.865	1.35	= 8.41 m³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
for - 1000 mm dia RCC:-				BF:-	8.41 m³
	4	x 2 x 6	x 1.025	x 1.35 =	66.99 m³
for 2m x 2m R.C.C. Culverts -					
Abuts:-	2	x 6.8 x 1.8	x 1.4	=	34.272 m³
R/W:-	4	x 2.44 x 1.6	x 1.4	=	21.96 m³
					130.982 m³
		Limited		=	123.420 m³
7. Plain cement concrete in Substructure as per drawing and technical spfn.					
F/W:-	2	x 3.6 x 0.48	x 1.12	=	3.87 m³
For 1000 mm dia RCC:-					
F/W:-	4	x 2 x 6 x 0.53	x 1.8	=	46.08 m³
	4	x 2 x 6 x 0.4	x 0.60	=	11.52 m³

for R.C.C. Culverts:-					
Abut:-	2	x 6.0 x 1.0	x 1.8	=	21.60 m³
R/W:-	4	x 2.44 x 0.75	x 2.0	=	14.64 m³
					97.71 m³
		Limited		=	89.730 m³
8. Reinforced cement concrete in Substructure as per spfn:-					
R/W Coping:-	4	x 2.44 x 0.40	x 0.150	=	0.55
Abut Cap:-	2	x 6 x 0.70	x 0.20	=	1.68
Parapet	2	x 3 x 0.40	x 0.60	=	1.44 m³
Dirt Wall:-	2	x 6 x 0.40	x 0.240	=	3.67 m³ 1.15 m³
		Limited		=	4.82 m³ 4.60 m³

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Co of area
9. Providing and laying Cement Concrete Hume Pipe on fin. 1st class Bedding of granular material.					
(A). 600mm ϕ NP2 —					
	1	x 3	x 2.5m	=	7.5M.
(B) - 1000mm ϕ NP2.					
	4	x 3	x 2.5m	=	30M.
10. Laying Bedding on well compacted sand Measurement.					
Below Pipe:- 600mm ϕ NP2					
	1	x 6.22	x 1.02 x 0.55	=	1.49M
for 1000mm ϕ NP2 —					
	4	x 5.9	x 1.5 x 0.55	=	19.47M
					20.96M
Less for pipe portion					
	4	x 5.9	x 0.22 x 1	=	5.20M
	1	x 6.22	x 0.16 x 1	=	1.0M
Net Bedding —					14.76M³
11. Filling in around trenches as per Sp:-					
Face wall:-	2	x 3.6	x 0.41	=	2.92M
Around Pipe:-	1	x 6.46	x 1.02 x 0.42	=	2.77
for - 1000mm ϕ NP2 —					
Face wall:-	9	x 2	x 6 x 0.405	=	19.44M
Around Pipe:-	4	x 6.30	x 1.5 x 0.9	=	39.02M
					59.15M

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
					59.15m
Less for P.P.R.C.					
1 x 6.46 x 0.25				=	1.590m
4 x 6.30 x 0.91				=	22.92m
					34.64m

12. Supplying, bending and Placing HYSD bar reinforcement in Super Structure as Per Sph. for 2m x 2m R.C.C. Culvert in Deck Slab

Main bar:- 12mm ϕ -

85 x 2.85m = 242.25m

Distr. bar:- 34 x 5.90m = 200.60m

442.85m

@ 0.89 kg/m = 394.14kg

Top main bar:- 10mm ϕ.

85 x 2.60m = 221m

Distr.: 34 x 5.90m = 200.60m

421.60m

@ 0.62 kg/m = 261.39kg

Total Steel:- 655.53kg

Or — 0.65553 M.T.

13. Providing and laying reinforced Cement Concrete in Super Structure as per Sph.

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
1 x b.0m x 2.60 x 0.240 = 3.744 m³					
14. Back filling behind Abutment, wing wall and return wall as per Sp^n: Sandy material-					
Abut:- 2 x 2 x 4.50 x 4 x 1.8 = 16.22 m³					
Trench filling:- ~~4x 4x 4x 4x 6 = 96.00~~					
: 4 x 2.44 x 1.80 = 17.57					
					33.79 m³
15. Construction of Bench mark - 72 x 25 = 1800 m					
		1 x 18 m =		18 m	
			1818 m.		
or ———			1.818 Km.		
(ii) Construction of Staff stand					
Pillars — 72 x 25 m = 1800 m					
		1 x 18 m =		18 m	
					1818 m
			Or —		1.818 Km
16. clearing and Grubbing Road land —					
72 x 25 m x 6.5 m (av) = 11817 m²					
1 x 18 m x 6.5 m (av) = 117 m²					
					11934 m²
		Or ———			1.1934 Hect

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
17. Construction of Granular Sub-base by providing well graded material @ per sq.m =					
In C.C. Road Portion :—					
	4	25m	3.75	0.10	= 37.50
	4	25m	3.75	0.10	= 37.50 m³
In B.T. Portion :—					
	16	25m	4.05	0.20	= 324 m³
	16	25m	4.05	0.20	= 324 m³
	8	25m	4.05	0.20	= 162 m³
	4	25m	4.05	0.20	= 81 m³
	4	25m	4.05	0.20	= 81 m³
	8	25m	4.05	0.20	= 162 m³
	4	25m	4.05	0.20	= 81.00 m³
	2	30m	4.05	0.20	= 48.60 m³
					1338.60 m³

3/6/20
J.E

O/S. C. 20
AE

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		Material Statement			
(1) - F/W :- 6094.98 m³					
(2) Sand :- 706.6 m³					
(3) Chips :- 1418.17 m³					
3/6/20 J.E.	(3)				

1st Allotment Received Vide No. dt. 3.6.20
Amt-₹ 4657761/-

Abstract of cost

(i) Construction of Bench Mark and reference Pillar Quantity vide Rate-(7) - 1.818 Km @Rs. 577638/Km Rs. 1050/-

(ii) Construction of reference Pillars and boundaries Quantity vide Rate-(7). 1.818 Km. @Rs. 4413.38/Km Rs. 8024/-

2. Clearing and grubbing Road land. = Rs. 18525/-

Continuation

Sch. XLV-Form No. 134

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

Material Statement

(1) - F/W :- 6094.98 m³

(2) Sand :- 706.60 m³

(3) Chips :- 1418.17 m³

3/6/20 (S) Supdt. 63 A²

J.E.

5/6/20

1st Alletement Received 4-9 dt:- 3.6.20

Amt- ₹ 4657761/-

Abstract of cost

(1) Construction of Bench Mark and reference Pillar Quantity wise Rate-(7) - 1.818 Km.

@ Rs. 577638/Km Rs. 1050/-

(2) Construction of reference Pillars and bunding Quantity wise Rate-(7). 1.818 Km.

@ Rs. 4413.38/Km Rs. 8024/-

2. Clearing and grubbing Road land. @ Rs. 18525/-

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
As per Spfn					RS 18525=
Quantity vide Refe (7)					
1.1937 Hectare.					
@ RS. 49809.13					Hectare RS. 59442=
3/12. Construction of					
Embankment with approved material with Lead					
100m. Quantity vide					
Refe (2) - 1249.47 m³					
@ RS. 151.50 /m³					RS. 189294=
4/13. Construction of					
Subgrade and carriage					
shoulder with approved					
material as per Spfn.					
Quantity vide Refe-(2)					
4845.51 m³ @ RS. 196.53 /m³					RS. 953749=
C.D. WORK					
5. Earthwork excavation					
foundation of structure					
as per Spfn.					
Quantity vide Refe-(3)					
231.160 m³ @ RS. 285.71 /m³					RS. 66045=
6. Providing Plain concrete					
in open foundation Quantity					
vide Refe-(5), 21.720 m³					
@ RS. 5787.13 /m³					RS. 125696=
Continued...					C.RS. 1412744=

Sch. XLV Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B/Fwd	1412744=
7. Providing Plain Cement Concrete in open foundation Quantity vide Rate-A 123.43m³ @Rs. 5584.50/m³					Rs. 689295
8. Plain cement Concrete in Sub Structure as per Spec. Quantity vide Rate-A, 89.73m³ @Rs. 5795.08/m³					Rs. 519993=
9. Reinforced cement Concrete in Sub Structure as per Spec Quantity vide Rate-A 4.46m³ @Rs. 6860.77/m³					Rs. 30599=
10. Supplying fabricating and placing HYSD bar in Super structure. Quantity vide Rate-B 0.65533 M.T. @Rs. 78139.96/M.T.					Rs. 51207=
11. Providing and laying reinforced cement Concrete in Super Structure as per Spec Quantity vide Rate-A, 3.79m³ @Rs. 7763.34/m³					Rs. 29435
Continuation					C.Rs. 2732873

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
12. Back filling behind abutment and wing wall. Quantity vide Refe - (7) - 33.79 m³ @ Rs. 874.93/m³					Rs. 29564=
13. Providing and laying cement Concrete pipe NP3 Hume Pipe. (A) 600mm Dia RCC, Quantity vide Refe - (5) - 7.5m @ Rs. 1288.70/m					Rs. 9665=
(B) 1000mm Dia RCC Quantity vide Refe (5), 30m. @ Rs. 4141.59/m					Rs. 124248=
14. Laying Beddings on well Compacted Sand Quantity vide Refe-(5) 14.76 m³ @ Rs. 610.51/m³					Rs. 9011=
15. Filling in foundation trenches as per drawing and Technical Spl= Quantity vide Refe (6) 34.64 m³ @ Rs. 610.51/m³					Rs. 21148=
					C/O Rs. 2926499= 2926509=

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			PB	ARS	2926499= 2926509=W
16. Construction of granular Sub-base by Providing well graded material ~~Quantity vide~~ Rate-(B)					
1338.60 MTRS.			2695.21	MTR	3607808= Rs. 6534307= 6534317=
Less 1% below					Rs. 65431=
Limited as per Allot.					Rs. 5880876= 5880886
31/6/20 J.E.					6.7.20 AE

1st on A/c.

Memo for Payment of Rs 4657761=00

S.D - 8% - Rs 372621=00

I. Tax - 1% - Rs 46578=00

L. Cess - 1% - Rs 46578=00

CGST - 1% - Rs 46578=00

SGST - 1% - Rs 46578=00

Roy (E/W) - Rs 201134=00

Roy (MD) - Rs 65721=00

S.F (10%) - Rs 87043=00

912837=00

~~921837=00~~

~~3735924=00~~

By Cheque Rs ~~3735924=00~~ 3744924=00

Gross ₹ 4657761=00 Passed for ₹ 4657761=00 Forty Six Lakh fifty Seven thousand Seven hundred Sixty one only.

Continuation

Executive Engineer
RWD, Works Division
Sherghati

Pankaj Kr Singh
4/6/20

Sch. XLV-Form No. 134

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

2nd & Final Bill

Name of work:- Construction of road from TO3 to Gadhajani under MMGSY.

Name of Agency- Deodhari Yadav

Ag No- 65 SBD 2019-20.

Date of W/O:- 19-12-2019

Date of completion- 18-12-2020

Date of measurement- 15/7/20

1. Construction of granular Sub-base by providing Well graded material as per spec.

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
1 x 30m x 4.05 x 0.20 = 24.30m³					
1 x 10m x 4.05 x 0.20 = 8.10m³					
					32.40m³

2. Providing Laying spreading and Compacting stone in metal grade-III in road as per specifications

16 x 2.5m x 3.75 x 0.075 = 112.5
16 x 2.5m x 3.75 x 0.075 = 112.5
16 x 2.5m x 3.75 x 0.075 = 112.50
4 x 2.5m x 3.75 x 0.075 = 28.13
4 x 2.5m x 3.75 x 0.075 = 28.13
4 x 2.5m x 3.75 x 0.075 = 28.13
4 x 2.5m x 3.75 x 0.075 = 28.13
4 x 2.5m x 3.75 x 0.075 = 28.13
450.02m³

3. Providing applying Primer coat as per specs.

8 x 25m x 3.75m = 750m²
8 x 25m x 3.75m = 750m²
8 x 25m x 3.75m = 750m²
8 x 25m x 3.75m = 750m²
8 x 25m x 3.75m = 750m²
8 x 25m x 3.75m = 750m²
8 x 25m x 3.75m = 750m²
8 x 25m x 3.75m = 750m²
5250m²

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4. Providing applying tack coat as per the Quantity Sameal item item No-(3) Rate-(12)				—	5250m²
5. Providing mix seal surfacing with 20mm thick as per specification					
8 x 25m x 3.75 =					750
8 x 25m x 3.75 =					750m²
8 x 25m x 3.75m =					750m²
8 x 25m x 3.75m =					750m²
8 x 25m x 3.75m =					750m²
8 x 25m x 3.75m =					750m²
8 x 25m x 3.75m =					750m²
					5250m²

15/7/20
J.E.

15.7.20
AO.

Continuation

P.T.O

Sch. XLV-Form No. 134

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

Material Statement

(i) Chips :- 301.47 m^3

(ii) Sand :- 12.44 m^3

(iii) Grade-III - 544.52 nos

(iv) Bitumen Emulsion 55% - 4.59 MT

(v) Bitumen Emulsion RS1 - 1.44 MT

(vi) Bitumen (S-90) - 9.98 MT

15/7/20
J.E

Sd/-
15.7.20
AE

ABSTRACT OF COST

1. (i) Construction of Bench Mark Boundary Wide Page-(9) - 1.818 Km @Rs. 5776.38/Km Rs. 10501=

(ii) Construction of Reference Pillars and Buries Wide Page-(9) 1.818 Km @Rs. 9413.38/Km Rs. 8024=

2. clearing and grubbing road land Quantity Vide Page-(10) 1.1934 Hectare @Rs. 49809.13/Hectare Rs. 59942=

Continuation C/o Rs. 78467=

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B/F:-	78467=

3/12. Construction of embankment with Lead-100 M, quantity vide Page-(10)-1249.4 m³ @RS. 151.50/m³ Rs. 189294=

4/13. Construction of Subgrade and earthen Shoulder, quantity vide Page(10)-4845.51 m³ @RS. 196.83/m³ Rs. 953742=

C.D. work

5. E/W in excavation of found. of structure quantity vide Page(10) 231.160 m³ @RS. 285.71/m³ RS. 66045=

6. Providing plain concrete in open found. quantity vide Page(10) 21.72 m³ @RS. 5787.13/m³ RS. 125696=

7. Providing plain concrete in open found. quantity vide Page(11) 123.43 m³ @RS. 5584.50/m³ RS. 689295=

C/o RS. 2102039=

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
					Rs. 2102039:-
8. Plain Cement Concrete in Substructure as per Estimate Quantity Vide Rate-(11). 29.73 m³ @Rs. 5795.08/m³					Rs. 519993:-
9. Reinforced Cement Concrete in Substructure and Superstructure Quantity Vide Rate-(11). 0.655 m³ @Rs. 7213.9/m³					Rs. 5120:-
10. Reinforced Cement Concrete in Substructure Quantity Vide Rate-(11). 4.46 m³ @Rs. 6860.7/m³					Rs. 30589:-
11. Reinforced Cement Concrete in Superstructure Quantity Vide Rate-(11) 3.740 m² @Rs. 7766.94/m²					Rs. 29035:-
12. Back filling behind Abutment and Wing Wall Vide Rate-(13) — Continued on 33.19 m³ @Rs. 894.93/m³					Rs. 29564:-
					Total Rs. 2762437:-

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B/R25.		27 62437=
13. Providing and laying of Cement concrete Hume Pipe NP3.					
(A) 600mm dia HPC Quantity under Refe-					
(12) - 7.5 m @Rs 1288.70/mRs. 9665=					
(B) 1000mm dia HPC under Refe-(12) - 30m					
@Rs. 4141.59/m Rs. 124248=					
14. Laying Bedding on Well Compacted Sand under Refe-(12)					
14.76 m³ @Rs. 610.51/m³ Rs. 9011=					
15. Filling in round trenches under Refe (12). 34.64 m³ @Rs. 610.51/m³ Rs. 21148=					
16. Construction of granular Sub base under Refe-(13) - 1338.60					
under Refe - (15) - 32.40					
			1371.0 m²		
@Rs. 2695.21/m²					Rs. 3695133=
			C.A	Rs.	6421642=

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B/F	RS.	6621142=
17. Providing laying spreading and Compacting Stone metal grade-III in road Quantity vide Rate(15) 450.02 m³ @RS. 4107.0/m³					RS. 1848232=
18. Providing and applying Primer Coat vide Rate(15) - 5250m² @RS. 54.70/m²					RS. 287175=
19. Providing and applying tack Coat vide Rate-(16). 5250m² @RS. 18.57/m²					RS. 97493=
20. Providing laying rolling of close graded Premix surfacing material of 20 mm Thick Compose 11.2mm to 0.90 mm Type(B) or 13.2mm to 0.90 mm Grit Type B.					C.ORS 8854542

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
As per spty				RRS.	8854542=
and technical spty					
Quantity wide Rate-(16)					
5250 m² @ Rs. 234.81/m²					Rs. 1232753=
				Rs.	10087295=
Less 10-% below				@ Rs.	1008730=
				Rs.	9078565=
Less Previous Payment				@ Rs.	4657761=
				Rs.	4420804=
Recd 15/7/20 J.E.				Paid 15.7.20 A.E.	