AGREEMENT NO:- 32/MMGSY(ST)/SBD/2020-21

CH-OF WORK:- Const. OF ROAD FROM. Gandhinagar to Dhimalgachh.

Schedule XLV-Form No. 134

RWD(WD) KISHANGANJ-2 **DIVISION**

_____ **SUB-DIVISION**

MB NO:- 1132

MEASUREMENT BOOK

NAME OF AGIENCY:- AATESH. RAUSAN KUMAR.

प्रमाणित किया जाता है कि इस मापि पुस्त में कुल 100 (एक सौ) मुद्रित दोहरे पृष्ट है। जे/श्री...अजीत..कुमार दास सहायक अभियंता,ग्रा०का०वि०कार्य अवर प्रमण्डल.....ठाकुरगंज के नाम से निर्गत किया जाता है।

कार्यपालक अभियंता
ग्रा०का०वि०,कार्य प्रमण्ड
किशनगंज-2

26/7/18

26/7/18

Sch. XLV - Form No. 134

RWD(WD)Kishanganj-2 DIVISION

THAKURGANJ SUB-DIVISION

Measurement Book

No. 1132

Name of officer अजीतकुमार दास(सहायक अभि० ग्रा०का०वि० अव प्र० ठाकुरगंज)

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 measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
N/W:-	Const. of Road from Gangchinajor to Dhimaljachh.				
Agreement	no- 32/MMGSY(ST)/SBD/2020-21				
Agency:-	Rajesh Raushan Kumar.				
	AT-Dharamganj PS-Kishanganj				
Date of start-	24-06-2020				
Date of Completion-	23-06-2021				
	Record Entry				
1.	clearing and Grubbing Road land (By Manual Means) all comp.				
	2	30.0	1.35	=	810.0 M²
	2	30.0	1.40	=	840.0 M²
	2	30.0	1.30	=	468.0 M²
	2	30.0	1.15	=	828.0 m2
	2	30.0	1.20	=	576.0 m²
					3522.0 m²
				Say ⇒	0.34 Ha.
2.	P/v. & fixing of W/B Pillars all comp.				
(i)	Working Bench Mark Pillars – 1.50 Km				
(ii)	Reference Pillars – 1.50 Km.				

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
3.	Dismantling of existing structures with all comp.				
(i)	Plain Cement Concrete.				
	1x2.0x5.0x0.15 =				1.50 M³
	1	2.0	5.0	0.30	3.00 M³
	2	2.0	0.30	0.30	0.36 M³
					4.86 M³
(ii)	Brick Masonry/stone all comp.				
	2	2.0	0.825 (4)	3.0	9.90 M³
					Amount.
4.	Box culvert - 2M x 2M size - 850M CM.				
1.	E/w in Excavation in found? with all comp.				
Box culvert	1	3.50	6.0	0.65	13.65 M³
cutoff wall	2	3.50	1.30	1.80	16.38
Return wall	4	2.90	3.88	1.80	80.91
					110.94 M³
2.	PCC(M15) 1:2.5:5 in levelling course below open found? with all comp.				
	1	2.50	6.0	0.10	1.50 M³
	4	2.90	2.88	0.20	6.67 M³
					8.17 M³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3.	PCC M15 (1:2·5:5) Concrete				
	with all comp-				
	cut off wall				
	2	2.50	0.30	1.50	2.25M³
	Return wall.				
	~~4~~	~~2.50~~	$\frac{2.475+1.775}{2}$	~~1.775~~ x 1.60 =	
4 x (2.10+2.90+2.70+3.0) x			$\frac{2.40+1.60}{2}$	x 1.6 = 34.24	
					36.49M³
4.	Reinforcement cu cop-				
	10mm φ in cut off wall				
	2x12	1.5	0.62	-	22.32 kg.
	~~2x2~~	~~3.5~~	~~3.62~~	-	~~26.20~~
	Refl.				
Bottom -	10mm φ bar.				
	2x42	2.70	0.62 kg	-	140.62 kg.
	2x12	6.0	0.62 kg	-	89.28 kg.
	2x32	3.0	0.62 kg	-	119.0 kg.
	12mm φ bar				
	2x43	3.80	0.89 kg	-	290.85 kg.
10mm φ -	2x32	1.45	0.62	-	57.54 kg.
Haunch -	8mm φ bar.				
Bottom	2x32	1.25	0.39	-	31.20
Top	2x32	1.20	0.39	-	29.95
	10mm φ binder			-	
	2x2x13	6.10	0.62	-	196.65
					983.62 kg
					Say - 0.984 ton.

Continuation

Asstt. Engr.
13/9/20
OE.

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
5.	Plain/reinforced Concrete (M30) in Substr. all comp.				
	Bottom slab.				
	1	2.50	6.0	0.25	3.75 M³
	Side wall				
	2	6.0	2.0	0.25	6.00 M³
	Ret. wall.				
(2.10+2.90+2.70+3.00)			1.26+0.42 / 2		x 2.0 = 17.97 M²
					27.72 M³
6.	Ph. Needholes in Rly,				
7.	S/F/P HYSD bar reinforcement all comp.				
	Slab Top.				
12mm ϕ	44	2.80	0.89	—	109.65 kg
10mm ϕ	44	3.40	0.62	—	92.75 kg
	2x44	1.40	0.62	—	76.38 kg
	2x13	6.00	0.62	—	96.72 kg.
					375.40 kg
					⇒ 0.37 ton.
					Accounts. 20/9/20 JE.

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
8.	P/L and laying reinforced cement concrete in superstr. all complete-				
Box slab-	1	2.50	6.0	0.25	3.75 M³
Haunch-	4	6.0	0.01 (Av)		0.27 M³
Kerb-	2	2.50	0.25	0.30	0.38 M³
					4.395 M³
9.	Const. of RCC railing of M25 in Cast-in-Situ all comp-				
	2	2.50	—	—	5.0 M
10.	Drainage spouts comp-				4.0 Nos
11.	[illegible]				
	1	2.50	5.50	[illegible]	13.75 M²
12.	Plain/Reinforced (M20) in Substr. in copity Return wall cell comp-				
(2.10+2.90+2.70+3.0)				0.070	0.749 M³
13.	P/L and laying filter material with all comp.				
Behind Abt-	2	4.26	0.60	1.70	8.69
Ret. Wall	4	1.90	0.60	2.01	9.16
					17.85 M³
14	Back filling all comp.				
	2	2.50	5.20	0.20	5.20
	2	2.50	4.26	1.78	37.79

Continuation

Less filter Material as per side TMB P.No-5 Sl.No(3) (-) 17.85 M³

25.14 M³

Sign.
01/10/20

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	Box culvert (2M x 2M) CH-1				180 M
1.	E/w in excavation in found? all comp-				
Box culvert	1	3.50	6.0	0.65	13.65 M^3
cutoff wall-	2	3.50	1.30	1.80	16.38 M^3
Ret. wall-	4	2.90	3.88	1.80	80.91 M^3
					110.94 M^3
2.	PCC(M15) 1:2.5:5 in levelling course below open found? all comp-				
	1	2.50	6.0	0.10	1.50 M^3
	4	3.00	2.80	0.30	6.67 M^3
3.	PCC(M15) 1:2.5:5 concrete in found? all comp-				
	cutoff wall				
	2	2.50	0.30	1.50	2.25 M^3
	Return wall-				
	4	3.00	$\frac{2.36+1.20}{2}$	x 1.60	34.17 M^3
					36.42 M^3
4.	S/F/P HYSD reinforcement with all comp-				
	cutoff wall				
10mmϕ	2x12	1.50	0.62	-	22.32 kg
	2x2	2.50	0.62	-	06.20 kg.
	Raft. Bottom slab.				28.52 kg.

Continuation

Sch. XLV-Form No. 134

B.f.B/F. 28.52 kg.

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
10mmφ-	2×42	2.70	0.62	–	140.62 kg
	2×12	6.10	0.62	–	90.76 kg
	2×32	3.0	0.62	–	119.04kg
12mmφ	2×43	3.80	0.89	–	290.85 kg
10mmφ	2×32	1.40	0.62	–	57.54
	2×2×13	6.10	0.62	–	196.66 kg
8mmφ Munch-	2×32	1.25	0.39	–	31.20 kg
Top	2×32	1.20	0.39	–	29.95 kg.
					985.10 kg.
					⇒ 0.985 ton.

Asstt. Engr.
26/8/20

5.	Plain/reinforced cement concrete (M20) in sub-str. all comp-				
	Bottom slab.				
	1	2.50	6.0	0.25	3.75 M³
	side wall				
	2	6.0	2.0	0.25	6.00 M³
	Ret. wall-				
	4	3.0	$\frac{1.10+0.40}{2}$	2.0	18.0 M³
					27.75 M³
6.	P/v. weepholes in				
	Abt. & Ret. wall etc.				
	Abt	2 × 6.0 Nos =			12.0 No.
	Ret. wall.	4 × 5.0 Nos =			20.0 Nos
					32.0 Nos.

Continuation

Asstt. Engr.
09/10/20
JE.

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
1.	S/F/P HYSD bar reinforcement with all Comp. Top Slab.				
12mm ϕ	44	2.80	0.89	-	109.65 kg.
10mm ϕ	44	3.40	0.62	-	92.75 kg.
	2×44	1.40	0.62	-	76.38
	2×13	6.0	0.62	-	96.72 kg.
					375.40 kg.
				⇒	0.3754 ton.
					Approx.
2.	[illegible] Cement Concrete in super str. all Comp.				
Slab -	1	2.50	6.0	0.25	3.75 M^3
Haunch -	4	6.0	0.011 (Av)		0.27 M^3
Kerb -	2	2.50	0.25	0.30	0.38 M^3
					4.395 M^3
3.	Const. of Rcc railing of M25 in cast in situ all Comp-				
	2	2.50	——		5.0 M.
4.	Drainage spouts all Comp.		——		4.0 Nos.

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
5.	P/V. and laying Cement Concrete Negrity course M30 all comp.				
	1	2.50	5.50	—	13.75m²
6.	coping - P/ain/reinforced Cement Concrete (M20) in Subst. all comp.				
	4	3.0	0.070	—	0.84 m³
7.	Providing and laying filter material all comp.				
Behind Abt. 2					
					17.85m³
8.	Backfilling behind Abt. & Ret. Wall all comp.				
	2	2.50	5.20	0.20	5.20 m³
	2	2.50	4.26	1.78	37.79 m³
	less Qty vide MBP. no.				17.85 m³
				Net Qty -	25.14 m³

28/10/20
JE.

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1.	E/W in Qty. Sheet.				
CH.	Field Area	mean Area	Dist.		Fill volume
0	0.411	0.00	-		0.00
50	0.365	0.388	50		19.40
100	1.022	0.694	50		34.68
150	1.022	1.022	50		51.10
200	0.655	0.839	50		41.93
250	0.144	0.400	50		19.98
300	0.145	0.145	50		7.23
312	0.325	0.00	0		0.00
350	0.155	0.240	38		9.12
[illegible]					
[illegible]					
500	0.366	0.477	50		23.85
550	1.458	0.912	50		45.60
600	0.011	0.735	50		36.73
610	0.222	0.117	10		1.17
635	0.255	0.00	0		0.00
650	0.555	0.405	15		6.08
700	1.235	0.895	50		44.75
750	0.322	0.779	50		38.93
800	0.144	0.233	50		11.65
830	0.588	0.366	30		10.98
832	0.255	0.00	0		0.00
850	1.055	0.655	18		11.79
900	1.055	1.055	50		52.75

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
950	1.022	1.039	50		51.93
1000	2.588	1.805	50		90.25
1050	0.588	1.588	50		79.40
1100	0.655	0.622	50		31.08
1150	0.255	0.455	50		22.75
1200	0.011	0.133	50		6.65
1250	1.662	0.839	50		41.93
1300	1.555	1.611	50		80.53
1350	0.555	1.055	50		52.75
1400	0.022	0.289	50		14.43
1433	0.011	0.00	0		0.00
[illegible]					5.62
[illegible]					[illegible]
[illegible]					[illegible]

(i) E/W in 100 m lead 96%:

994.55 x 96/100 = 954.76 M^3

(ii) E/W in 1000 m lead 4%:

994.55 x 4/100 = 39.81 M^3

Asstt. Engr.
03/11/20
SE.

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
2.	Const. of subgrade and Earthen shoulds with all comp-				
	10	30.0	7.275	0.30	= 654.75 M3
	10	30.0	7.275	0.30	= 654.75
	10	30.0	7.275	0.30	= 654.75
	5	30.0	7.275	0.30	= 327.37 M3
					2291.62 M3
					Aymsr. 10/11/20 JE.
3.	Const. of granular sub-base by providing well graded material all complete-				
CH. 0 to 300-	10	30.0	4.0	0.20	240.0 M3
	10	30.0	4.0	0.20	240.0 M3
	10	30.0	4.0	0.195	234.0 M3
	5	30.0	4.0	0.195	117.0 M3
PCC	10	30.0	3.75	0.10	112.50 M3
	1	13.0	3.75	0.10	4.87 M3
	3	30.0	3.75	0.10	33.75 M3
	1	10.0	3.75	0.10	3.75 M3
					985.87 M3
					Aymsr. 18/11/20 JE.

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4.	P/v. laying spreading and compacting WBM gr-III with all comp.				
	10	30.0	3.75	0.075	84.375 M^3
	10	30.0	3.75	0.075	84.375
	10	30.0	3.75	0.075	84.375
	8	30.0	3.75	0.075	67.50 M^3
					320.625 M^3
				Asstt. Engr. 04/12/20 SE	
1.	clearing & grubbing road land with all comp. vide TMB p.no- (i) item ① 0.34 Ha. @ 49436.70/Ha —				16829=00
2.	Dismantling of existing str. all comp. vide TMB p.no-(2) item 3(i) 4.86 M^3 @ 473.83/M^3 —				2303=00
(ii)	Qty vide TMB p.no. 2 sr-3(ii)				
	9.90 M^3 @ 228.72/M^3 —				2264=00

Continuation Rs- 21,396=00

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B.f.Rs-21396=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3. Const. of Embankment with material obtained from borrow pits all Comp- vide TMB p.no- (11) item (i)- 954.74 M^3 @ 141-39/M^3 →					134991=00
(ii) 39.84 @ 175.32/M^3 →					6980=00
4. Const. of subgrade and Earthen shoulders [illegible] @ 176.96/M^3 →					405525=00
5. Const. of granular sub-base by providing well graded material all comp. vide TMB P.No- (12) item (3) 985.87 M^3 @ 2100.85/M^3 →					2071165=00
6. P/L. laying spreading and Compacting WBM gr.III with all comp. vide TMB p.no-(13)					
Continuation					Rs-26,40,057=00

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
				B.F. Rs-	26,40,057:00
	9/cross	(4)	3	20.6=5 M³	
		@ 4764.35/M³ →			1527567:00
7.	E/W in Excavation in found? all comp.				
110.94 M³	vide TMB P.No. (2) 9/n (1)				
110.94 M³	vide TMB P.No. (6) 9/n (1)				
121.88 M³					
	@ 260.59/M³ →				31760:00
8.	P/cum Cement Concrete				
	[illegible]				
[illegible]					
[illegible]					
16.34 M³					
	@ 5774.05/M³ →				94348:00
9.	P/V. PCC M15 (1:2.5:5) Concrete for Plain Concrete in open found? Complete.				
36.49 M³	vide TMB P.No. (3) 9/n (3)				
36.42 M³	vide TMB P.No. (6) 9/n (3)				
72.91 M³					
	@ 6508.42/M³ →				474529:00
				Rs.	47,68,261:00

Continuation

Sch. XLV-Form No. 134

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

B. F. Rs- 47,68,261=00

10. Plain/reinforced cement concrete (M20) in substr. Complete -

27.72M³ vide TMB P.No-(4) Item(5)

27.75 M³ vide TMB P.No.(7) Item (5)

55.47 M³

@ 6719-75/M³ → 372745=00

11. P/V. weepholes all comp.

30.0 Nos vide TMB P.No.(4) It-(6)

32.0 Nos vide TMB P.No.(7) It-(7)

[illegible]

12. [illegible]

placing [illegible]

cement in substr. all comp.

0.984 ton. vide TMB P.No.3 It-(4)

0.985 ton. vide TMB P.No.(7) It-(4)

1.969 ton-

@ 53259-66/MT → 104868=00

13. Backfilling behind Abt. and Ret. wall all comp.

25.14M³ vide TMB P.No.(5) Item(14)

25.14M³ vide TMB P.No.(9) Item(8)

50.28 M³

@ 690-24/M³ → 34705=00

Rs. 52,87,408=00

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B. F. Rs-		287408=00
14.	P/V. cond laying filter				
	material all comp-				
17.85 M³	vide TMB P.No- (5) Sl.no (13)				
17.85 M³	vide TMB P.No. (9) Sl.no (7)				
35.70 M³					
	@ Rs 4475.74/M³				159784=00
15.	coping: Plain/reinforced				
	Cement Concrete (M 20) in				
	Substr. complete -				
0.749 M³	vide TMB P.No-(5) Sl.no (12)				
[illegible]	[illegible]				
	[illegible]				
16.	P/V. cond laying exc				
	in superstr. all comp				
4.395 M³	vide TMB P.No-(5) Sl.no (8)				
4.395 M³	vide TMB P.No-(8) Sl.no (2)				
8.790 M³					
	@ Rs 7773.29/M³				68327=00
17.	S/F/P HYSD bar reinfor-				
	Cement all comp.				
0.370 ton	vide TMB P.No.(4) Sl.no (7)				
0.375 ton	vide TMB P.No.(8) Sl.no (1)				
0.745 ton					
	@ Rs 54327.64/MT				40474=00
				B.S.	55,66,671=00

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B.f. Rs-55,66,671=00		
18.	Const. of RCC railing of M25 grade in casting fitting with all comp-				
5.0M wide TMB p.no-(5) sl.no (9)					
5.0M wide TMB p.no.(8) sl.no(3)					
10.0M					
	@ 7147.41/M			—	71474:00
19.	Drainage spouts comp.				
4.0 Nos wide TMB p.no (5) sl.no(10)					
4.0 Nos wide TMB p.no (8) sl.no(4)					
20	Providing and laying cement				
	Concrete weight comp.				
	M30 with all comp-				
13.750M² wide TMB p.no-(5) sl.no(11)					
13.750M² wide TMB p.no-(9) sl.no(5)					
27.50M²					
	@ 12741.43/M²			—	350389:00
				Rs-59,92,641:00	
Add 1% labour cess				— (+)	59926:00
Add 12% GST				— (+)	7191 17:00
				Rs. 67,71,684:00	

Summary.
06/12/2020
JE.