

ਸਰਕਾਰੀ ਰ.ਦ.ਧਰਮ ਭਾਗਵਤ ਕਾਲਜ
ਗੁਰਦੁਆਰਾ

THARNAUT DIVISION

Nagarjuna
SUB-DIVISION

Measurement Book

9801

प्रमाणित किया जाता है कि इस भागी प्रकृति
के भागी में इसे कुल 100 (एक सौ) एकड़
है जो हरियाणा शासित क्षेत्र में प्रमाणित
किया गया है।
10.08.23

कार्यपालक अभियन्ता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, हरनौत
10.8.23

Sch. XLV - Form No. 134

HARNAUT DIVISION

गुगाणा SUB-DIVISION

Measurement Book

No. 1086

Name of Officer _____

Date of first entry _____

Date of last entry _____

1st on A/c Bill Measurement

1

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.	
Ch-H:-	MM	65.5	N D B	(13.125)	RES)
Name of work:-	Const. of				
Road from	Nagarnausa D Mahon				
R.C.D. Path to Khapra Masteffapur					
Khapra					
Name of Contractor:-	Dileep Kumar				
Village:-	Bhagin Bigha, Puzh				
Taluk:-	Chandi, Dist:-				
Nalanda.					
Agreement No:-	06/553/2023-24				
Date of Commencement:-	20.7.2023				
Date of Completion:-	19/07/2024				
Agreement value Rs	49,48,703.00				
Measurement					
① Setting out of Bench marks etc	= 1 No.				
② Setting out of reference pillar etc.	= 2 No.				
③ Clearing and grubbing road					
Land etc.					
2 x 555m x 3.50m	= 0.39 Hect.				

Continuation

C.O.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
④ Removal of coal cutting etc. Trunks, Branches etc.					
(i) length above ground to 600m = 12Hv					
(ii) length above 600 to 900m = 6Hv					
(iii) length above 900m to 1800m = 3Hv					
⑤ Removal of telephone pole etc.					
= 14Hv					
⑥ Dismantling of Cement Concrete structure etc.					
330m X 3m X 0.16m = 158.40m ³					
⑦ E/W excavation in foundation of H.P.C. etc.					
1 X 2 X 6.45m X 1.40m X 1.5m = 27.09					
1 X 1 X 4.85m X 1.53m X 0.765m = 2.708m ³					
					29.80m ³
⑧ plv. p.c.c. m15 (in leveling course etc.					
2 X 6.45m X 1.40m X 0.15m = 2.709m ³					
1 X 4.94m X 1.53m X 0.25m = 1.889m ³					
					4.60m ³
⑨ plv. p.c.c. M20 in sub structure etc.					
2 X 6.15m X 1.25m X 0.40m = 3.18m ³					
					32.269m ³
2 X 6.15m X 0.40m X 0.60m = 2.952m ³					
					35.221m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.F	B + y =		35.221 m ²
Less for P.P.C.					
$2 \times \frac{\pi}{4} \times (1.23 \text{ m})^2 \times 0.622 \text{ m} = (-)$					1.478 m ²
					33.743 m ²
② P.W. and Lowing R.C.C. H.P.					
H.P. etc.					
= 1 x 3 x 2.50 m ²				7.50 m	
③ E/W Construction of embankment with approved material etc.					
(1) Lead up to 1000 m					
$2 \times 7 \times 30 \text{ m} \times 0.75 \text{ m} + 1.25 \text{ m} \times 0.60 \text{ m} = 252.00 \text{ m}^2$					
$2 \times 1 \times 10 \text{ m} \times 0.75 \text{ m} + 1.25 \text{ m} \times 0.60 \text{ m} = 12.00 \text{ m}^2$					
					264.00 m ²
(2) Lead up to 100 m					
$2 \times 5 \times 30 \text{ m} \times 0.75 \text{ m} + 1.25 \text{ m} \times 0.60 \text{ m} = 180.00 \text{ m}^2$					
④ Box cutting in E/W for widening etc.					
$1 \times 28 \text{ m} \times 0.75 \text{ m} + 1.50 \text{ m} \times 0.175 \text{ m} = 5.51 \text{ m}^2$					
$1 \times 15 \text{ m} \times 1.50 \text{ m} + 0.75 \text{ m} \times 0.175 \text{ m} = 2.95 \text{ m}^2$					
$1 \times 25 \text{ m} \times 0.75 \text{ m} \times 0.175 \text{ m} = 3.28 \text{ m}^2$					
$1 \times 22 \text{ m} \times 0.75 \text{ m} + 1.40 \text{ m} \times 0.175 \text{ m} = 4.14 \text{ m}^2$					
$1 \times 20 \text{ m} \times 1.40 \text{ m} \times 0.175 \text{ m} = 4.90 \text{ m}^2$					
$1 \times 4 \text{ m} \times 0.80 \text{ m} \times 0.175 \text{ m} = 0.56 \text{ m}^2$					
$1 \times 15 \text{ m} \times 1.60 \text{ m} + 1.55 \text{ m} \times 0.175 \text{ m} = 4.13 \text{ m}^2$					
					25.47 m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B.F. B.H.		25.47m ²
1x17.40m x 1.75m + 1.45m + 2.65m					
			3 0.175m		5.89m ²
1x1.5m x 2.65m + 1.75m + 2.70m					
2.60m / 4x0.175m					6.38m ²
1x21m x 0.85m + 1.05m				0.175m	3.49m ²
		2			
1x6.30m x 1.05m + 1.95m				0.175m	1.63m ²
		2			
1x8.50m x 1.85m + 2.95m				0.175m	3.50m ²
		2			
1x12.60m x 0.95m + 0.85m				0.175m	1.98m ²
		2			
1x9m x 1.75m + 3.75m				0.175m	4.33m ²
		2			
1x17m x 0.75m + 0.90m				0.175m	2.45m ²
		2			
					55.11m ²
(5) Const. of embankment with 60% B.H. of excavated material - ch.					
B.H. vide T.M. & P.H. (3, 4) & H. (4)					
= 55.11 x $\frac{60}{100}$ = 33.07m ²					
18/12/2023					
S.E.					
(1) Const. of sub-grade and earthen shoulder - etc.					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
7x30m x	6.826m +	7.726m x			
	2		0.30m =		458.39m ²
1x10m x	6.826m +	7.726m x			
	2		0.30m =		21.83m ²
					480.22m ²
(2) Const. of G. S.B. bracing					
1st Material in widening etc.					
Qty. vide T.M.B. P.N. (3, 4) I.N. (4)					
= $\frac{55.11m^2}{0.175m} = 314.914m^2$					
Hence Qty. of G.S.B. =					
$314.914m^2 \times 0.10m = 31.49m^3$					
(3) P.V. and laying W.B.M.					
Gro-III in widening etc.					
Qty. taken from T.M.B.					
P.N. (5) I.N. (2) =					
$314.914m^2 \times 0.075m = 23.62m^3$					
(1) Const. of G. S.B. bracing etc.					
In B.T. Portion					
1x7m x 9.70m + 7.0m + 5.20m x 0.20m = 0.22m ³					
3					
1x6m x 5.20m + 4.05m x 0.20m = 5.55m ³					
15.77m ³					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B.P. 3+4 =		15.77m ²
6x3.5m x 4.05m x 0.25m =					145.80m ²
1x2.5m x 4.05m + 5.5m + 4.05m					
			3	0.25m =	21.83m ²
1x2.3m x 4.05m x 0.25m =					18.63m ²
In P.C.C. portion:-					
1x2.8m x 3.75m + 4.5m x 0.10m =					11.55m ²
		2			
1x1.5m x 4.5m + 3.75m x 0.10m =					6.19m ²
		2			
1x2.5m x 3.75m x 0.10m =					9.37m ²
1x2.2m x 3.75m + 4.4m x 0.10m =					8.96m ²
		2			
1x1.9m x 4.4m + 3.05m x 0.10m =					7.58m ²
		2			
1x1.9.70m x 3.05m + 4.30m x 0.10m =					7.24m ²
		2			
1x7.55m x 3.80m + 3.20m x 0.10m =					2.64m ²
		2			
1x6.60m x 4m + 3.25m + 1.80m					
			3	0.10m =	1.98m ²
1x6.30m x 4m + 3.30m x 0.10m =					2.30m ²
		2			
1x2m x 3.30m + 3.75m x 0.10m =					0.70m ²
		2			
					260.54m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B-F	B+H	260.54m
1x15mX	4.65m+4.55m			X 0.10m	6.86m ²
	2				
1x17.45mX	4.75m+4.45m+5.65m			X	
			3	0.10m	8.58m ²
1x15mX	(5.65m+4.75m+5.75m+5.65m)/4			X 0.10m	8.14m ²
1x1.35mX	0.40m+1.50m+1.45m			X	
			3	0.10m	0.14m ²
1x21mX	3.85m+4.05m			X	
	2			0.10m	8.29m ²
1x6.35mX	4.05m+4.95m			X	
			2	0.10m	2.82m ²
1x8.50mX	4.80m+5.90m			X	
			2	0.10m	4.55m ²
1x12.60mX	3.95m+3.85m			X	
	2			0.10m	4.91m ²
1x9mX	4.75m+6.75m			X 0.10m	5.17m ²
	2				
1x17mX	3.75m+3.95m			X 0.10m	6.50m ²
	2				
					316.00m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.F.	B.M.		316.00m ²
1 x 8.80m x 3.20m + 3.80m x 0.10m					3.08m ²
1 x 19.40m x 2.80m + 3.50m x 0.10m					6.11m ²
1 x 24m x 2.40m + 2.50m x 0.10m					5.28m ²
1 x 14.20m x 5.10m + 3.40m + 2.30m x 0.10m					5.11m ²
					335.58m ²
② Const. of sub grade and earthwork shown etc.					
Both side of G.S.B. in D.T. Portion					
2 x 8 x 3.0m x 1.48m x 0.20m					142.08m ³
2 x 1 x 1.1m x 1.48m x 0.20m					0.59m ³
Both side of S.B. in P.C.C. Portion					
2 x 9 x 3.0m x 1.15m x 0.10m					62.10m ³
2 x 1 x 1.3m x 1.15m x 0.10m					2.99m ³
					207.76
					10105.16m ³
① P.V. laying, spreading and Compacting W.B.M. Grade III etc. In D.T. Portion					
1 x 7m x 9.70m + 7.50m + 5.20m x 0.075m					3.83m ²
1 x 6m x 5.20m + 3.75m x 0.075m					2.01m ²
					5.84m ²

Continuation

C-01

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B. F 18+4-			5.84m ²
6x30m x 3.75m x 0.075m					50.62m ²
1x25m x 3.75m + 5.0m x 3.75m					
			3	0.075m	7.81m ²
1x23m x 3.75m x 0.075m					6.47m ²
In P.C.C. Portion					
1x28m x 3.75m + 4.50m x 0.075m					8.66m ²
	2				
1x15m x 4.50m + 3.75m x 0.075m					4.64m ²
	2				
1x25m x 3.75m x 0.075m					7.03m ²
1x22m x 3.75m + 4.40m x 0.075m					6.72m ²
	2				
1x19m x 4.40m + 3.05m x 0.075m					5.31m ²
	2				
1x19.70m x 3.05m + 4.30m x 0.075m					5.43m ²
	2				
1x7.55m x 3.80m + 3.20m x 0.075m					1.98m ²
	2				
1x6.60m x 4m + 3.20m + 1.80m x					
		3		0.075m	1.49m ²
1x6.30m x 4m + 3.30m x 0.075m					1.72m ²
	2				
1x2m x 3.30m + 3.75m x 0.075m					0.53m ²
	2				
1x15m x 4.60m + 4.55m x 0.075m					5.15m ²
	2				
					119.40m ²

Continuation

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
			B.F. 184.2	119.40m ²
1 x 17.40m		4.75m + 4.45m + 5.65m		
			3 0.075m =	6.44m ²
1 x 15m x 5.65m + 4.75m + 5.75m + 5.65m				
		4		
			0.075m =	6.15m ²
1 x 1.30m x 0.40m + 1.50m + 1.40m				
		3	0.075m =	0.11m ²
1 x 21m x 3.85m + 4.05m				
		2	0.075m =	6.22m ²
1 x 6.30m x 4.05m + 4.05m				
		2		
			0.075m =	2.11m ²
1 x 8.50m x 4.50m + 5.90m				
		2	0.075m =	3.32m ²
1 x 12.60m x 3.95m + 3.85m				
		2	0.075m =	3.69m ²
1 x 9m x 4.75m + 6.75m				
		2	0.075m =	3.88m ²
1 x 17m x 3.75m + 3.95m				
		2	0.075m =	4.89m ²
1 x 8.80m x 3.25m + 3.85m				
		2	0.075m =	2.31m ²
1 x 19.40m x 2.80m + 3.50m				
		2	0.075m =	4.58m ²
1 x 24m x 2.40m + 2.00m				
		2	0.075m =	3.96m ²
				167.01m ²

Continuation

C-0'

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B.F. 4.2		167.01 m ²
1 x 14.20 m x (5.10 m + 3.40 m + 2.30 m) / 3 x 0.075 m =					3.83 m ²
					170.84 m ²
(2) Const. of Sub grade and earthen shoulder - etc.					
Both Side of 13m in B.T. Portion.					
2 x 8 x 30 m x 1.63 m x 0.075 m =					58.68 m ²
2 x 1 x 1 m x 1.63 m x 0.075 m =					0.24 m ²
Both Side of 13m in P.C.C. Portion.					
2 x 9 x 30 m x 1.15 m x 0.075 m =					46.58 m ²
2 x 1 x 13 m x 1.15 m x 0.075 m =					2.24 m ²
					107.74 m ²
					21 Mpc 17101/2024 AFCum 2-12
(1) Const. of Un-reinforced cement Concrete Pavement					
m ₂₀ - etc.					
1 x 28 m x 2.75 m + 4.50 m x 0.16 m =					18.48 m ²
2					
1 x 15 m x 4.50 m + 3.75 m x 0.16 m =					9.90 m ²
2					
1 x 25 m x 3.75 m x 0.16 m =					15.00 m ²
1 x 22 m x 3.75 m + 4.40 m x 0.16 m =					14.34 m ²
2					57.72 m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B. F. 1841			57.72m ²
1 X 19m X 4.40m + 3.05m X 0.16m					11.32m ²
	2				
1 X 19.75m X 3.05m + 4.30m X 0.16m					11.58m ²
	2				
1 X 7.55m X 3.80m + 3.20m X 0.16m					4.23m ²
	2				
1 X 6.60m X 4m + 3.25m + 1.80m X					
	3				3.17m ²
1 X 6.30m X 4m + 3.30m X 0.16m					3.68m ²
	2				
1 X 2m X 3.30m + 3.75m X 0.16m					1.13m ²
	2				
1 X 15m X 4.60m + 4.55m X 0.16m					10.98m ²
	2				
1 X 17.40m X 4.70m + 4.45m + 5.65m X					
	3				13.73m ²
1 X 15m X 5.65m + 4.75m + 5.70m + 5.60m X					
	4				13.02m ²
1 X 1.30m X 0.40m + 1.50m + 1.40m X					
	3				0.23m ²
1 X 21m X 3.85m + 4.05m X 0.16m					13.27m ²
	2				
1 X 6.30m X 4.05m + 4.90m X 0.16m					4.51m ²
	2				
1 X 8.50m X 4.80m + 5.90m X 0.16m					7.28m ²
	2				
					155.85m ²

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Ch-H:-	M M B S Y				N D B (BRICS)
Name of work:-	Const				of
road from Nagarnaula					
Diyawan R.C.D path to					
Khapura Masti Hapur					Khapura
Name of Contractor:-	Dileep				
Kumar Verma,					vill:- Bhasin
Bishta, Post:-	Tulsigoshi,				P.S:-
Chandi, Dist:-	Nalanda.				
Agreement No:-	06 SBD/2023-24				
Date of Commencement -	20/7/2023				
Date of Completion -	19/07/2024				
Assessment value -	Rs. 49,487.00				
Date of Estm -	20/02/2024				
ABSTRACT OF COST					
					Bench
① setting out of reference mark etc.					
Qty. vide T.M.B. PN ①					
I.N. ① =	1 N o.				
@ Rs. 5159.45/each					5159.45
② setting out of reference mark etc.					
Pillar etc					
Qty. vide T.M.B. PN ①					
I.N. ② =	2 N o.				
@ Rs. 2369.19/each					2369.19

Rs 7528.64

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.F	R		7528-
(3) clearing and grubbing road land etc.					
Bty. vide T.M.B. P.N. (1)					
P.N. (3) = 0.39 Hect.					
Ch. 72697.86/Hect.R					28352-
(4) cutting of trees etc.					
(i) Girth above 30cm up to 60cm					
Bty. vide T.M.B. P.N. (2)					
P.N. (4) (i) = 12 No.					
Ch. 345.76/each R					41492-
(ii) Girth up to 60cm up to 90cm					
Bty. vide T.M.B. P.N. (2)					
P.N. (4) (ii) = 6 No.					
Ch. 606.08/each R					36362-
(iii) Girth up to 90cm up to 180cm					
Bty. vide T.M.B. P.N. (2)					
P.N. (4) (iii) = 3 No.					
Ch. 1127.57/each R					33842-
(5) removal of telephone poles					
Bty. vide T.M.B. P.N. (2)					
P.N. (5) = 14 No.					
Ch. 228.79/each R					32062-
					R. 502552

Continuation

C.O.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B-F	R ₅	50255 ^{sq}
(6) Dismantling of existing structure etc.					
Qty. vide T.M.B. P.N. (2)					
T.N. (1) = 158.40 m ³					
@ R. 652.07/m ³ R ₁					103288 ^{sq}
(7) Box cutting in Blw for widening etc.					
Qty. vide T.M.B. P.N. (3) (4)					
T.N. (4) = 55.11 m ³					
Qty limit = 43.31 m ³					
@ R. 103.85/m ³ R ₁					4498 ^{sq}
(8) Construction of embankment with 60% qty. of excavated material etc.					
Qty. vide T.M.B. P.N. (4)					
T.N. (5) = 33.07 m ³					
Qty limit = 25.99 m ³					
@ R. 60.83/m ³ R ₁					1581 ^{sq}
(9) Const. of embankment Lead up to 150m etc.					
Qty. vide T.M.B. P.N. (3) T.N. (3)					
(ii) = 180.00 m ³					
Qty limit = 161.83 m ³					
@ R. 175.01/m ³ R ₁					28322 ^{sq}
Continuation					R ₁ 187944 ^{sq}

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B.F. for	187944=
(10) Const. of embankment					
lead up to 1000m etc.					
Dty. vide T.M.B. P.N. (7)					
P.No. (3) - (1) =			26	4.00m ²	
Dty. limit =		248.50m			
at 258.52/M ² for					642420=
(11) Const. of sub grade					
and earthen shoulder					
-- etc.					
Dty. vide T.M.B. P.N. (40)					
P.N. (1) =			480.22m ²		
Dty. vide T.M.B. P.N. (8)					
P.No. (2) =			207.76m ²		
Dty. vide T.M.B. P.N. (11)					
P.No. (2) =			107.74m ²		
				795.72m ²	
at 262.06/M ² for					208526=
(12) Const. of G.S.B. road					
-- etc.					
Dty. vide T.M.B. P.N. (2)					
P.N. (2) =			31.49m ²		
Dty. vide T.M.B. P.N. (5 to 8)					
P.No. (1) =			335.58m ²		
				367.07m ²	
at 2822.34/M ² for					1035996=
					1496708=

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B.F.R.		3817094
(16) P.V. P.C.C. M15 in leveling course etc.					
Bty. vide T.M.B. P.N. (2)					
P.N. (8) = 4.65m					
Ch. 6782-32/m ² R					311992
(17) P.V. P.C.C. M20 in Sub. structure. etc.					
Bty. vide T.M.B. P.N. (2,3)					
P.N. (1) = 33.743m					
Bty. limits 33.74m					
Ch. 7812-49/m ² R					263593
(18) P.V. and laying R.C.C. H.P.C. N/G 1000mm dia etc.					
Bty. vide T.M.B. P.N. (3)					
P.N. (2) = 7.50m					
Ch. 7956-25/m R					59672
					R. 4 221558
Add 18 % GST					R. (H) 75988020
Add 1% Labour cess					R. (H) 4221620
Add Seigniorage Fee					R. (H) 8845420
					R. 51,12,10820
Less 10 % AS Per Agg - A.					51,12,1120
Net Payable Amount					4600897

CSP
for
20.02.2024

Continuation

20/02/2024
A.E. (Cm) &
Nagendra

C.O.

Continuation