

Name of Road → NH 30 to Tekra Bighra

Schedule XLV-Form No. 134

Ranjeet Kumar

(Turnover)

Executive Engineer, R. W. D. Works DIVISION

Danigawana

SUB-DIVISION

Measurement Book

No-7574

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 measurements relating to each work).

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1st on A/c Bill					
Name of work: - Repair & Five years Main-					
tenance of Road from NH-					
30 A to Teka Bigha under					
3054 MR					
Agency: - Ranjeet Kumar, S/o Ramashwan					
Prasad Singh, Village - Alampur					
P.O - Kachhi Dargah, Bidroganj					
Patna - 803201					

Agreement No -	100301/2023-24
Rate approved -	0.10% Below
Date of Commencement -	08/08/2023
Date of completion -	
Date of measurement -	30/11/23, 10/12/23
Work done	
Item ① clearing & grubbing	
road land - do - etc	
$2 \times 10 \times 30.00 \times 1.125 =$	675.00 m ²
$2 \times 10 \times 30.00 \times 1.125 =$	675.00 "
$2 \times 10 \times 30.00 \times 1.125 =$	675.00 "
$2 \times 10 \times 30.00 \times 1.125 =$	675.00 "
$2 \times 1 \times 17.00 \times 1.125 =$	38.25 "

Continuation

$$\therefore \text{Hect} = 2738.25 \text{ m}^2 / 10,000 = 0.274 \text{ Hect}$$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2km ② Construction of sub.					
grade & over the 90m.					
1.4m - - do - do - etc.					
BT - $2 \times 10 \times 30.00 \times 1.125 \times 0.300 = 202.50 m^3$					
$2 \times 10 \times 30.00 \times 1.125 \times 0.300 = 202.50 "$					
$2 \times 1 \times 15.00 \times 1.125 \times 0.300 = 10.125 "$					
1.4m - $2 \times 10 \times 30.00 \times 0.500 \times 0.300 = 90.00 "$					
$2 \times 10 \times 30.00 \times 0.500 \times 0.300 = 90.00 "$					
$2 \times 1 \times 2.00 \times 0.500 \times 0.300 = 0.60 "$					
					595.725 m ³

1/2m ③ Construction of embank
ment with approved
material & 1/2m

from borrow pits with					
2 lead up to 1000.0 m					
- - do - do - etc.					
$2 \times 08 \times 30.00 \times 1.163 \times 0.800 = 446.592 m^3$					
$2 \times 01 \times 6.00 \times 1.163 \times 0.800 = 11.165 "$					
					457.757 m ³
					Limit to 457.56 m ³

1/2m ④ Construction of GSD
by Prov. wall grade
B material - do - etc.

$6 \times 5.10 \times 1.35 = 41.31 m^2$					
$5 \times 4.30 \times 1.60 = 34.40 "$					
$7 \times 4.20 \times 1.30 = 38.22 "$					
$8 \times 3.80 \times 1.70 = 51.68 "$					
$6 \times 4.10 \times 1.80 = 44.28 "$					

Continuation 40209.89 m²

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$AF = 229.89 m^2$
Item (4) Length (C.B.D.)					
		$7 \times 4.70 \times 1.60$			$= 52.64 "$
					$262.53 m^2$
					$Qty = 262.53 m^2 \times 0.175 = 45.943 m^3$
Item (5) Prov. laying, spreading					
2 compacting stone 299					
regates of specific times					
to W.B.M. 0 - do - etc.					
		$6 \times 7.40 \times 2.00$			$= 98.80 m^2$
		$5 \times 6.20 \times 2.30$			$71.30 "$
		$7 \times 6.10 \times 1.90$			$= 81.13 "$
		$8 \times 5.50 \times 2.50$			$= 110.00 "$
		$6 \times 5.90 \times 2.60$			$= 92.04 "$
		$7 \times 6.80 \times 2.30$			$= 109.48 "$
					$552.75 m^2$
					$Qty = 552.75 m^2 \times 0.075 = 41.456 m^3$
Item (6) Prov. laying, spreading &					
compacting stone 299					
regates of specific					
rides to W.B.M. 0 - do - etc.					
		$6 \times 9.00 \times 2.50$			$= 139.50 m^2$
		$5 \times 7.80 \times 2.90$			$= 113.10 "$
					$40 252.60 m^2$

Continuation

P.P.O.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					$BF = 252.60 m^2$
Item ⑥ Contd. (from p. 12)					
		$7 \times 7.60 \times 2.40 =$			$127.68 "$
		$8 \times 6.90 \times 3.10 =$			$171.12 "$
		$6 \times 7.40 \times 3.30 =$			$146.52 "$
		$7 \times 8.50 \times 2.90 =$			$172.55 "$
					$870.47 m^2$
		$Qty = 870.47 m^2 \times 0.075 =$			$65.295 m^3$

Item ⑦ Construction of dry					
lean cement concrete					
-- do -- do -- do etc.					
		$1 \times 6.00 \times 3.75 \times 0.10 =$			$2.25 m^3$
		$1 \times 4.00 \times 3.75 \times 0.10 =$			$1.50 "$
		$1 \times 7.00 \times 3.75 \times 0.10 =$			$2.625 "$

		$2 \times 5.50 \times 3.75 \times 0.10 =$			$4.125 "$
		$1 \times 6.50 \times 3.75 \times 0.10 =$			$2.4375 "$
		$1 \times 3.50 \times 3.75 \times 0.10 =$			$1.3125 "$
		$1 \times 4.50 \times 3.75 \times 0.10 =$			$1.6875 "$
		$2 \times 5.25 \times 3.75 \times 0.10 =$			$3.9375 "$
		$2 \times 3.60 \times 3.75 \times 0.10 =$			$2.70 "$
					$22.575 m^3$

Item ⑧ Construction of panel					
concrete R.C.C. base					
-- mortar & grade etc.					
		$4 \times 30.00 \times 3.75 \times 0.10 =$			$45.00 m^3$
		$1 \times 15.00 \times 3.75 \times 0.10 =$			$5.625 "$
		$1 \times 30.00 \times 3.75 \times 0.10 =$			$11.25 "$
		$1 \times 25.00 \times 3.75 \times 0.10 =$			$9.375 "$
					$40.71.25 m^3$

Continuation

PTD

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					BF = 71.25 m ³
Item (8) Contd (Reinforcement)					
Aluminum	1	5.00	4.50	5.00	0.100 = 2.375 "
	1	6.00	3.75	0.100	2.25 "
	7	30.00	3.75	0.100	78.75 "
	1	10.00	3.75	0.100	3.75 "
	1	29.00	3.75	4.15	0.100 = 11.455 "
	1	15.00	4.15	3.75	0.100 = 5.925 "
	1	35.00	3.75	0.100	13.125 "
	2	30.00	3.75	0.100	22.50 "
	1	12.00	3.75	4.00	0.100 = 14.65 "
	1	16.00	4.15	3.40	0.100 = 5.68 "
	1	9.00	5.80	3.12	0.100 = 14.05 "
	1	6.00	3.75	0.100	2.25 "
					228.01 m ³
Item (9) Dismantling Existing					
Structure like cement con-					
-crete - do - do - etc.					
	1	3.50	1.54	0.15	0.81 m ³
Item (10) Dismantling Existing					
Structure like cement mortar					
- do - do - do - etc.					
	2	6.20	7.825	3.00	30.69 m ³

Continuation

PTD

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (11)	Ramping all types of				
	Hume pipes above 600				
	mm to 900mm dia. do etc				
	1	5.00			5.00 Km
Item (12)	Prov. laying of a rec				
	pipe dia 300mm dia				
	across the road do etc				
	4	4	2.50		40.00 Km
Item (13)	Brick masonry work				
	in 1:1:6 in parapet				
	- do - do - etc				
	2	4.80	0.40	0.60	2.30 m ³

Item (14)	Plastering with 1:1:6				
	in sub structure				
	- do - do - etc				
Side	4	4.90	0.60		11.52 m ²
Top	2	4.90	0.40		3.84 "
Front	4	0.40	0.60		0.96 "
					16.32 m ²
Item (15)	Painting two coats in day				
	- using primer with another				
	- tie coat paint do etc				
	Qty same as item (14) = 16.32 m ²				

Continuation

PTD

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (16) Bricks masonry work in C.M(1:3) in parapet --- do --- do --- etc. $2 \times 5.60 \times 0.40 \times 0.60 = 2.688 \text{ m}^3$					
Item (17) Plastering with C.M(1:4) in substructure etc. Side - $4 \times 5.60 \times 0.60 = 13.44 \text{ m}^2$ Top - $2 \times 5.60 \times 0.40 = 4.48$ Front - $4 \times 0.40 \times 0.60 = 0.96$ 18.88 m^2					
Item (18) Painting two coats including primer with Synthetic enamel paint etc. Qty same as item (17) = 18.88 m^2					
1000 mm H.P. Culvert					
Item (19) Earth Work excavation for F.R.G structure etc. H.W - $2 \times 6.45 \times 1.40 \times 1.50 = 27.09 \text{ m}^3$ down Pipe 1 x $4.85 \times 1.53 \times 0.365 = 2.708$ 29.798 m^3					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item (20)	Prov. P.C.C.	0.15	11.25		
	5) as levelling comp-ss				
	infrastructure - do - etc				
H.W.	2	6.45	1.40	0.15	2.709 m ³
Below pipe	1	4.931	1.53	0.25	1.886 "
					4.595 m ³
Item (21)	Prov. P.C.C.	17.20	in		
	Sub structure - do - etc				
H.W.	2	6.150	0.925	3.180	32.969 m ³
Parapet	2	6.150	0.400		
less for pipe					
	2	0.7857	1.230	0.622	5.147 "
					30.790 m ³
Item (22)	Prov. Laying Rec				
	pipe 1/3 100mm dia				
	for culvert - do - etc				
	3	2.50			7.50 m
Item (23)	Painting two coats in				
	cluding primer with				
	synthetic enamel paint				
	do - do - etc				
Top	2	6.150	0.400		4.92 m ²
Side	4	6.150	0.600		14.76 "
Front	4	0.400	0.600		0.96 "
					20.64 m ²

Continuation

PTD

Material statement		
(i) Earth	—	595.725 m ³
(ii) Agg (20-5 to 9-5 mm)	—	19.99 m ³
(iii) Agg (9-5 to 2.36 mm)	—	13.78 m ³
(iv) Local sand	—	22.05 m ³
(v) Agg (63.0 to 45.0 mm)	—	50.16 m ³
(vi) Agg (150 to 22.4 mm)	—	73.99 m ³
(vii) Stone Screening	—	96.74 m ³
(viii) Binding material	—	3.32 m ³
(ix) Crushed Stone and sea Agg	—	20.32 m ³
(x) Coarse Sand	—	130.60 m ³
(xi) Agg - 40 mm	—	13.99 m ³
(xii) Agg - 20 mm	—	135.31 m ³

Scanned with CamScanner

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					OF Rs 3749831-00
(26) Prov. Laying S.D.B.C.					
with 100-120 TPH batch					
type H.M.P. - do - etc					
57.66 m ³ vide Tm B Page (27)					
at 13089 = 561 m ³ - Rs 7,54744-00					
(27) R.C.C.M. 15 grade					
km. Stone - do - etc					
(ii) km. Stone					
3.00 nos. vide Tm B Page (30)					
at 2872079/each - Rs 8,618-00					
(iii) 200 M. Stone					
5.00 nos. vide Tm B Page (30)					
at 806-39/each - Rs 4,032-00					
(28) Prov. Erecting & direction & place identification					
Sign retro reflectorized					
Sign - do - do - etc					
1.92 m ² vide Tm B Page (30)					
at 13747-63/m ² - Rs 26,395-00					
(29) Prov. String of retro reflectorized cautionary					
mandatory & for safety					
Sign - do - do - etc					
(i) 600 mm sq. & triangle					
20.00 nos. vide Tm B Page (31)					
at 3990-31/each - Rs 79806-00					
at Rs 4623,426-00					

Continuation

Continuation

Scanned with CamScanner

Continuation