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To Sri. Yashwendra Yadav A.E.-R.W.D.
Work Sub-Div. Nadunpur

Yashwendra Yadav
10/7/20
Executive Engineer
Rural Works Division, at
Nadunpur

Schedule XLV - Form No. 134.

D.E. Aboi DIVISION.

A.E. Nadunpur SUB-DIVISION.

MEASUREMENT BOOK

No. 211172

2807

Name of officer

Sri. Yashwendra Yadav A.E.

Nadunpur

Date of first entry

Date of last entry

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 idhara
	No.	L	B	D	
Name - Construction of Road					
From Madanpur Road to					
Pharadihi under Ministry					
Agency - Ramnandan Singh,					
Shree House, 1 Kola Pihor					
Durgamabad.					
Agreement - 1252 RD / 2020-21					
(100% work)					
Agreement Value @ 121.726 Rs					
(12.661 Rs)					

Total - 125.386 Rs

Date of work start - 07/09/2020

Date of completion - 06/09/2021.

Record entry

94m ① 2m 2 ft 2 in
 2m 2 ft 2 in forming
 8m 50cm - done
 can hold 1000/1000 per

3/2021 ✓

1/2021

1/2021

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Item ① Area of existing drains mark - do - end					
Item ② Reference Piles - 8 nos					
Item ③ Clearing & Grubbing road level - do -					
					$2 \times 6.8 \times 3000 \times 2.50m = 14280m^2$
					$2 \times 4m \times 3.50m = 28m^2$
					$2 \times 21m \times 3.50m = 147m^2$
					$2 \times (30+20) \times 3.50m = 350m^2$
					$14805m^2$
					$\Rightarrow 1.48 \text{ Hect.}$
Item ④ Dismantling of existing structure - do -					
concrete under -					$0.24m^3$
⑤ Concrete work -					$2.62m^3$
⑥ Concrete work -					$9.9m^3$
11/07/20					11/07/20

Sub. No. 134

Particulars

1. 1/2 x 1/2 x 1/2
2. 1/2 x 1/2 x 1/2
3. 1/2 x 1/2 x 1/2
4. 1/2 x 1/2 x 1/2
5. 1/2 x 1/2 x 1/2

1/2 x 1/2 x 1/2

1/2 x 1/2 x 1/2

1/2 x 1/2 x 1/2

3. 1/2 x 1/2 x 1/2
on foundation
- do - on concrete

1/2 x 1/2 x 1/2

1/2 x 1/2 x 1/2
2 x 6.45 m x 1.40 x 1.80 = 27.00 m³

Below bed -

1 x 4.9 m x 1.5 m x 0.30 m = 2.20 m³
29.20 m³

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

300 57) Pw 2 Gring

Reckels 18

4.10.71 - 00 - 000

Example - dissd

has one fan.

3 x 2.100 = 7.500 m²

4/1/20
16

11/1/20

Box Culvert

300 58) Earth work in

excavation in

foundation -

- do - do Culvert -

for 15 m length

Box Culvert

$$1 \times 6.00 \times 3.50 \times 1.65 = 3.450 \text{ m}^3$$

Height work -

$$2 \times 3.50 \times 1.50 \times 1.80 = 16.350 \text{ m}^3$$

Return wall -

$$4 \times 3.32 \times 3.42 \times 1.80 = 81.650 \text{ m}^3$$

$$111.710 \text{ m}^3$$

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

glen (40) Pile Plan Cement

Concrete foundation

do do concrete pile

For SS 1850000

$$4 \times 6.04 \times 2.50 \times 0.10 = 1.5013$$

$$4 \times 3.32 \times 2.42 \times 0.20 = 6.4208$$

$$\underline{7.9221}$$

20/12/20
JA

20/12/20

glen (41) Pile Plan reinforcement

Placement concrete

foundation do do

concrete - For SS 1850000

Return 6911 -

$$4 \times 2.92 \times 2.07 \times 0.20 = 4.713$$

$$4 \times 2.92 \times 1.91 \times 0.20 = 4.483$$

$$4 \times 2.92 \times 1.81 \times 0.20 = 4.243$$

$$4 \times 2.92 \times 1.71 \times 0.20 = 4.013$$

$$4 \times 2.92 \times 1.61 \times 0.20 = 3.783$$

$$4 \times 2.92 \times 1.51 \times 0.20 = 3.543$$

$$4 \times 2.92 \times 1.41 \times 0.20 = 3.313$$

$$4 \times 2.92 \times 1.31 \times 0.20 = 3.083$$

$$\underline{31.153}$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Earth work Calculation					
Stn.	Area	Area	Distance	Volume	
sq	sq	sq	m	m ³	
0+0					
50	0.765	—	—	—	
100	0.865	0.815	50	40.75 ^{m³}	
150	1.367	1.116	50	55.80 ^{m³}	
200	1.712	1.539	50	76.95 ^{m³}	
250	1.583	1.647	50	82.35 ^{m³}	
300	1.742	1.662	50	83.10 ^{m³}	
350	1.596	1.649	50	83.45 ^{m³}	
400	1.739	1.667	50	83.35 ^{m³}	
450	1.842	1.816	50	92.30 ^{m³}	
500	1.823	1.857	50	92.85 ^{m³}	
550	1.743	1.783	50	89.15 ^{m³}	
600	1.958	1.851	50	92.55 ^{m³}	
650	1.873	1.915	50	95.75	
700	1.829	1.881	50	92.55	
750	1.959	1.894	50	94.70	
800	1.870	1.914	50	95.70	
850	1.834	1.852	50	92.60	
900	1.929	1.881	50	94.05	
950	1.632	1.781	50	89.05	
1000	1.544	1.588	50	79.40	
1050	2.154	1.849	50	77.45	
1100	1.686	1.920	50	96.00	
1150	1.638	1.662	50	83.10	
1200	2.135	1.896	50	94.80	
1250	2.057	2.106	50	105.30	

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
1300	2.141	2.149	50		107.45
1350	1.930	2.061	50		103.05
1400	1.601	1.765	50		98.250
1450	2.132	1.866	50		93.30
1500	0.848	1.490	50		74.50
1550	1.977	1.413	50		70.65
1600	0.883	1.432	50		71.60
1650	0.877	0.883	50		44.15
1700	0.900	0.889	50		44.45
1750	0.88	0.859	50		42.95
1800	0.971	0.895	50		44.75
1850	0.971	0.971	50		48.55
1900	0.500	0.751	50		37.55

1950	0.718	0.624	50		31.20
2000					<u>2963.950</u>

20/12/20
 JF
 ML 20/12/20

Item (4) Construction of
 - measurement with
 abstracted method
 - do - on Confield

for 50% slope
 location - ~~2871.16~~

for 100% E.P. Calculation
 0.50 x 2963.95 = 2971.16

20/12/20
 JF
 ML 20/12/20

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

345 ⑤ Construction of

retention wall

approved quality

— do —

1 end 1000m

$$2963.95 - 23 \times 1.6 = 592.79 \text{ m}^3$$

20/12/2020
JF

346 ⑥ Construction of

single level cartan

Shedles — do —

Complete — JF

1000 m

$$10 \times 300 \times 7.30 \times 0.30 = 657 \text{ m}^3$$

$$10 \times 300 \times 7.30 \times 0.30 = 657 \text{ m}^3$$

$$10 \times 300 \times 7.30 \times 0.30 = 657 \text{ m}^3$$

$$10 \times 300 \times 7.30 \times 0.30 = 657 \text{ m}^3$$

$$(30 + 15 \text{ m}) \times 7.30 \times 0.30 = 98.55 \text{ m}^3$$

$$(8 \times 300 + 15 \text{ m}) \times 7.30 \times 0.30 = 558.45 \text{ m}^3$$

$$3281.3 \text{ m}^3$$

$$0.30 \times 3281.3 = 985.50 \text{ m}^3$$

347 ⑦ Construction of

$$0.2 \times 3281.3 = 656.26 \text{ m}^3$$

20/12/2020
JF

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

g eq. ⑤ Constructing
granular surface
by providing surface
approved by - owner
complete for 96
persons.

$$10 \times 2000 \times 4.05 \times 0.20 = 24300^3$$

$$10 \times 2000 \times 4.05 \times 0.20 = 24300^3$$

$$10 \times 2000 \times 4.05 \times 0.20 = 24300^3$$

$$10 \times 2000 \times 4.05 \times 0.20 = 24300^3$$

$$(30 \times 1500 \times 4.05 \times 0.20 = 36450^3)$$

$$(8 \times 2000 + 1500) \times 4.05 \times 0.20 = 206550^3$$

$$2100 \times \frac{7.15 + 3.75}{2} \times 0.20 = 11450^3$$

$$(5 \times 2000 + 1500) \times 3.75 \times 0.10 = 61875^3$$

$$(10 \times 2000 + 1500) \times 3.75 \times 0.10 = 118125^3$$

$$1406400^3$$

15/01/2021

15/01/2021

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Item (5) 60mm 15 - Cast concrete					
Plu, Loring, & Loring					
2 (concrete) & 100					
Aggregates to					
Water (concrete) & 100					
- etc -					

$$10 \times 200 \times 3.75 \times 0.075 = 84.375 \text{ m}^3$$

$$10 \times 300 \times 3.75 \times 0.075 = 84.375 \text{ m}^3$$

$$10 \times 300 \times 3.75 \times 0.075 = 84.375 \text{ m}^3$$

$$10 \times 300 \times 3.75 \times 0.075 = 84.375 \text{ m}^3$$

$$(30 \text{ m} + 10 \text{ m}) \times 3.75 \times 0.075 = 12.66 \text{ m}^3$$

$$10 \times 300 \times 3.75 \times 0.075 = 84.375 \text{ m}^3$$

$$20 \text{ m} \times \frac{7.15 + 3.75}{2} \times 0.075 = 8.58 \text{ m}^3$$

$$(5 \times 300 + 10 \text{ m}) \times 3.75 \times 0.075 = 46.41 \text{ m}^3$$

$$(10 \times 200 + 1500) \times 3.75 \times 0.075 = 80.59 \text{ m}^3$$

$$565.46 \text{ m}^3$$

24/02/22

22/02/22

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

Material statement

Earth - 6248.753^3

Steel - 506.326^3

stone aggregate - $\frac{1950^3}{200} = 780^3$

stone screening material - 135.713^3

29/12/21
JS

M 2407121

Abstract of Cost -

Item Allocation -

① Clearing & grubbing work
and reference pile -

vide table ① 3rd

Qty 3945.50 cu ft 11857 = w

② Reference pile -

vide table ② 3rd

Qty 1784.81 cu ft 14278 = w

③ Clearing & grubbing work
and reference pile -

vide table -

vide table ② 1st & 2nd

Qty 5113.76 cu ft 75678 = w

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
① Construction of embankment with approved material — do — 1000m					
Volume of (1) $2371.16 m^3$					
of $131.03/30 \times 310693 = 4$					
② Construction of embankment with approved material — do — 1000m					
Volume of (1) $592.79 m^3$					
of $174.94/30 \times 103703 = 20$					
③ Construction of drainage 2 center shoulders — do — 1000m					
Volume of (1) $3285.3 m^3$					
of $0.30 = 95.50 m^3$					
of $126.55/30 \times 174019 = 20$					
④ Construction of drainage center shoulders — do — complete 1000m					
Volume of (1) $2299.50 m^3$					
of $141.17/30 \times 324620 = 20$					

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(8) 4.30. Comp breaking of gravel drainage by hand & machine. spreading - do - under slab (11) 1406.45 m ² of 2197.50 m ² by 309067 m ²					
(9) 1400 m ² - 1/2, 1/4, 1/8, 1/16 drainage & concrete stone aggregate water supply & drainage - do - under slab (12) 565.40 m ² of 2197.50 m ² by 1400 m ²					
(10) 1/2 floor & living floor on front & back side board - do - do complete 100% per sq. ft. under slab (13) 340 m ² of 9196.75 m ² by 27560 m ² concrete floor					
11/2 - Elevation & excavation for foundation - do - - do - under slab 100% 100% per sq. ft. under slab (14) 15.64 m ² of 269.32 m ² by 4218 m ²					

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
12/30 - Pile Piling - 9/10/12/30					
Complete in foundation					
- do -					
waterproof @ 2.55 m ³					
Qty 453.50 m ³ to					129.77 = 50
12/31 - Pile Piling - 9/10/12/31					
Complete in foundation					
Hardcore - do - 100					
Complete in foundation					
waterproof @ 15.17 m ³					
Qty 1273.40 m ³ to					3000/20
14/22 - Pile and casting RCC					
waterproof to casting					
- do -					
waterproof @ 7.50 m ³ to					
Qty 954.84 m ³ to					71.61 = 20
15/34 - Pile and casting RCC					
waterproof to casting					
- do -					
waterproof @ 24.50 m ³ to					
Qty 269.22 m ³ to					5026 = 20

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
16/35 - Pile long 9.14 m					
Concrete in foundation					
- do - see sample					
Jus 8.8 per m ³ for					
width 0.85 m					
vol 4.553 m ³					20 946 = 0
17/36 - Pile plain least					
Concrete in head					
width - do - see sample					
Jus 8.8 per m ³ for					
width 0.85 m					
vol 33.74 m ³					
vol 527.6 m ³					177 938 = 0
18/37 - Pile end Raging Rec.					
M 3 per m ³					
Concrete - do - see					
sample Jus 8.8					
per m ³ for					
width 0.85 m					
vol 35.97 m ³					26 985 = 0
Base (1.4 x 0.4)					
19/39 - Pile end Raging Rec.					
foundation - do -					
width 0.85 m					
vol 26.9 m ³					30 086 = 0

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
20/40 - P.W. Plain Cement Concrete open open foundation do - do continue for 50/50 fee. wide top (7.92m) of 4 553.50/15 ³ 36064 = 0					
21/41 - P.W. Plain Cement Concrete open foundation do - wide top (21.15m) of 50 = 2.50/15 ³ 153253 = 0					
22/54 - Discontinuity of existing structure do - concrete - wide top (0.24m) of 454.74/15 ³ 116 = 0					
23/11 - Reinforced Cement Concrete - wide top (2.68m) of 10 93.44/15 ³ 2930 = 0					
24/12 - Discontinuity of existing structure do - wide top (7.9m) of 221.77/15 ³ 22945 = 0 Co. Rs 6369706 = 0					

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				B.F.B	6369706 = 0
Adding 12% GST				R ₅	764365 = 00
1% Labourless					6369720
				R ₅	7197768 = 00
Deduction of 18% discount					
(10% below)				R ₅	719777 = 00
				R ₅	6477991 = 00

22/02/2021
25/02/21

22/02/21
25/02/21

CSP
25/2/21