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To Srl.....Babbar Nam.....A.E. R.W.D
Work Sub-Div.....Kutamba.....

[Signature]
10/7/20
Executive Engineer
Rural Works Division, at
Works Division, Aurangabad
[Signature]
10/7/20

Schedule XLV - Form No. 134.

E.E. Aurangabad DIVISION

A.E. Kutamba SUB-DIVISION

21740
MEASUREMENT BOOK.

231342

Name of officer

Sri Babbar Nam A.E.
Kutamba

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 area
	No.	L.	B.	D.	
Name of Work -					
Agency -					
Agreement No -					
Agreement No -					
Date of Start -					
Date of Completion -					
Rate -					

Measurement

① clearing and grubbing
the road land - d-245

$$2 \times 15 \times 30 \times 3.5 \text{ m} = 3330.00 \text{ m}^2$$

$$2 \times 15 \times 30 \times 4 \text{ m} = 3600.00 "$$

$$2 \times 3 \times 30 \times 3.5 \text{ m} = 630.00 "$$

$$2 \times 1 \times 10 \times 3.50 = 70.00 "$$

$$2 \times 10 \times 30 \times 3.50 \text{ m} = 2100 "$$

$$2 \times 1 \times 30 \times 3.5 \text{ m} = 210.00 ;$$

$$9940.00 \text{ m}^2$$

$$= 0.99 \text{ hectare}$$

② Excavation for road way

- d- (Box Culvert) Be

Side of B.E.S - d- 1245

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
2x	18x	30m	0.523m	0.1m	$= 56.70m^2$
2x	1x	20m	0.523m	0.10m	$= 2.10m^2$
					<u>$58.80m^2$</u>

③) / ~~Constructing~~ ~~from~~ ~~bank~~
~~at~~ ~~side~~ ~~at~~ ~~BT~~
 Qty same like T.M. B.R. = $58.80m^2$
 $58.80m^2 \times 6 \text{ ft.} = 35.28m^2$

~~20~~ ~~10~~ ~~10~~ ~~20~~
 02/01/2021
 J.G.

Constructing Home like Culvert

①) 600mm dia

①) B.R. EX culvert from road

of structure - at - BT

2x 2x 3.90m x 1.15m x 1.5m = $26.9m^3$

Below
Pit 2x 1x 5.35m x 1.13m x 0.36m = $4.41m^3$
 $31.32m^3$

②/32 finding R.C.C.M

(1:2:5:5) - at - culvert

Course in foundation - at - BT

2x 2x 3.90m x 1.15m x 0.15m = $2.69m^3$

Below
like 2x 1x 5.31m x 1.13m x 0.250 = $3.00m^3$
 $5.69m^3$

Continuation

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

②/37 Primary Plains and

Conanite - in Salt State

— dan dr — 24 —

$$2 \times 2 \times 3.6 \text{ m} \times 0.78 \text{ m} \times 2.78 \text{ m} = 28.02 \text{ m}^3$$

Paraphrase

$$2 \times 2 \times 3.60 \text{ m} \times 0.40 \text{ m} \times 0.60 \text{ m} = 3.456 \text{ m}^3$$

$$31.478 \text{ m}^2$$

less the 112

$$2 \times 2 \times 0.7857 \times (0.83)^2 \times 0.53 = 1.148 \text{ m}^3$$

30.33 m³

④/34 Indoary and Aryans

Rice like NH_3 form

Calculus → de-vel

$$2 \times 3 \times 2.50 \text{ m} = 15.00 \text{ m}$$

1000 mm dia H.F. column

⑤) 136 Earthquake for

Caution for you when

of solution $\rightarrow d-312$

4x20	6.45m	1.40m	1.50m	108.36m ³
				<u>154.18m³</u>

~~54.1843~~

Belva

Belva
Pipe - $4 \times 1 \times 4.85 \text{ m} \times 1.53 \text{ m} \times 0.345 \text{ m} = 10.83 \text{ m}^3$

$$\underline{119.19 \text{ m}^3}$$

⑤/37 Shirley P. e Mly -

$$(1:2:5:5) \rightarrow d-129 \quad \overline{\quad}$$

$$2 \times 2 \times 6.45 \text{ m} \times 1.4 \text{ m} \times 0.15 \text{ m} = 10.836 \text{ m}^3$$

$$4 \times 4 \times 4.931 \times 1.53 \times 0.25 \text{ m} = 7.544 \text{ m}^3$$

$$18.38 \text{ m}^3$$

⑦/38 Sidney Blair Court

Common - in leaf structure

— 20 — Continuation [21]

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
4x2x	6.15	20.825	3.18		$= 129.076 \text{ m}^3$
4x2x	6.15	20.40	0.60		$= 11.808 \text{ m}^3$
					140.884 m^3
less than Pit - 4x2x	0.785	$7 \times (1.23)^2 \times 0.622$			$= 5.912$
					134.972 m^3
					$= 134.98 \text{ m}^3$

⑧ / 39 *Indragyany*

Rice Pit - N.P. - 3

Culvert - d - d - 151

4x3x2.50m = 30.00m

⑨ / Construction of embankment

- d - Material - d - obtained

from borrow pits - d - 121

Qty of fill is 245 Cubic meter - 100m

S.N.	Chainage in M	Fill area	Mean area	Distance	Fill volume
1.	0	1.448			
2	50	1.689	1.589	50	78.425 m^3
3	100	0.555	1.122	50	56.100
4	150	1.034	0.795	50	39.725
5	200	1.606	1.320	50	66.00
6	250	0.965	1.286	50	64.325
7	300	0.568	0.767	50	38.325
8	350	0.514	0.514	50	27.050
9	400	0.293	0.504	50	25.175
10	450	1.055	0.774	50	38.700
11	500	1.876	0.965	50	48.20
12	550	1.016	0.945	50	47.225
13	600	0.514	0.765	50	38.250

Continuation

567.50m³

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area	
	No.	L	B	D		
S.M.	Cham in M	Fill area	Man Area		Dist	Fill Volume
					B.F	567.50 m ³
14	650	0.532	0.523		50	26.150 ³
15	700	0.712	0.622		50	31.10 "
16	750	0.795	0.754		50	37.675 m ³
17	800	0.885	0.840		50	42.00 "
18	850	0.116	1.001		50	50.023
19	900	1.166	1.141		50	57.05
20	950	1.105	1.136		50	52.775
21	1000	1.642	1.325		50	68.675
22	1050	0.623	1.133		50	56.625
23	1100	0.658	0.641		50	32.025
24	1150	0.534	0.596		50	29.80 "
25	1200	0.590	0.582		50	28.100
26	1240	0.533	0.582		40	22.4600 ³
						1105.910 m ³

(10) Construction Subgrade
and other shoulder d-BL2
for New Constn (B.T. Road.

$$2 \times 18 \times 30 \times 7.276 \text{ m (W)} \times 0.30 \text{ m} = 1200.54 \text{ m}^3$$

(11) Construction of Granular

Sub-base (G.S.B g-l-1) -

→ d → d RT

In widening part

$$2 \times 18 \times 30 \text{ m} \times 0.525 \text{ m} \times 0.10 = 56.70 \text{ m}^3$$

$$2 \times 1 \times 20 \text{ m} \times 0.525 \times 0.10 = 2.10 \text{ m}^3$$

$$\textcircled{A} 58.80 \text{ m}^3$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
12 Profile Corners					
1x 12.10m x 2.47m					= 29.8822
1x 8.15m x 2.36					= 19.2342
3x 5.0m x 2.0m					= 30.00m ²
1x 10.56m x 2.76m					= 29.14m ²
2x 8.0m x 2.50m					= 40.00m ²
1x 14.20m x 2.90m					= 41.18 "
2x 7.10m x 2.0m					= 28.00 "
1x 5.72m x 2.54m					= 14.52 "
2x 4.0m x 2.0m					= 16.0
1x 6.82m x 2.47m					= 16.84m ²
					<u>264.79m²</u>

$$\text{Volume} = 264.79 \text{ m}^2 \times 0.10 \text{ m (av)} = 26.479 \text{ m}^3$$

(B)

In Earth

$$\text{Barrow 1x } 18 \times 30 \text{ m} \times 4.05 \text{ m} \times 0.20 \text{ m} = 437.40 \text{ m}^3$$

$$1 \times 1 \times 10 \text{ m} \times 4.05 \text{ m} \times 0.20 \text{ m} = 8.10 "$$

In Widening Part
over Lay

$$1 \times 18 \times 30 \text{ m} \times 4.05 \text{ m} \times 0.10 \text{ m} = 218.70 "$$

$$1 \times 1 \times 20 \text{ m} \times 4.05 \text{ m} \times 0.10 \text{ m} = 8.10 "$$

$$\text{Paved Area} = 1 \times 7 \times 30 \text{ m} \times 3.75 \times 0.10 = 78.75 \text{ m}^3$$

$$\text{Total Work done of G.S BGLT} = 751.05 \text{ m}^3$$

$$= \textcircled{A} + \textcircled{B} + \textcircled{C} = 757.88 \text{ m}^3$$

$$836.63 \text{ m}^3$$

2024

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>Mohammud</u>					
①/ Excavation for boundary and compaction of WBM Gully. B					
— d — d — d — B.I					
1x 20x30m x 3.75m x 0.075m =					
1x 15x30m x 3.75m x 0.075m = 168.75M ³					
/ Excavation for foundation of Eastern Shoulah					
— d — d — B.I					
B.T.P.R.					
G.S.B -					
2x 30x30m x 1.39m x 0.20m = 500.40M ³					
2x 7x30m x 1.39m x 0.20m = 116.76M ³					
② 617.16M ³					
2x 7x30m x 0.375 x 0.175m = 27.56M ³					
2x 10x30m x 1.182 x 0.075 = 53.19M ³					
2x 20x30m x 1.182 x 0.075 = 160.38M ³					
2x 5x30m x 1.182 x 0.075 = 26.59M ³					
884.88M ³					
<u>Done</u>					
11/01/2021					
J.E					
<u>11-1-21</u>					
V.E					
1st on the Bell.					
Abstract of Cost					
Excavation for Gully through road — d — B.I					
Qty of T.M.B.R. ① = 0.99 ha					
② 51133.76 ha — R-50622					

Continuation

B 50622

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
			B.P.	R-50	62220
③ Excavation for sand filling					
- d- Boxally - d- 21 I					
Qty side T.M.B Pr No ②					
= 58.80 M ³					
@ 74 = 16/M ³ - R-					436120
④ Filling construction					
5 embankment - d-					
Materials deposited of					
Side - d- 21 I					
Qty side T.M.B Pr No ②					
= 35.28 M ³					
@ 26 = 11/M ³ - R-					92120

⑤ Construction embankment					
6 - d- Material deposited					
Obtained - d- borrow pits					
- d- d- 21 I					
Qty side T.M.B Pr No ⑤					
= 1105.90 M ³					
@ 131 = 03/M ³ - R-					14495620

⑥ ⑦					
9 Construction of Subgrade					
and on the shoulder					
- d- d- 21 I					
Qty side T.M.B Pr ⑦ = 1200.54 M ³					
= 8844					
@ 141 = 17/M ³ - R-					16947820

⑧ Construction of the Shoulder					
Continuation					
Qty side T.M.B Pr ⑧ = 617.16 M ³					
Un No ③ (P) @ 176.58/M ³ - R-					10897820

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(1a) Lumber (G.S.B 8(1)) → d d 21 I					
Qty nile T.M.B.P.N. (2)					
836.63 m ²					R. 2271409:
② 2714.95 m ²					R. 2271492

(11) Lumber laying & binding

oiled carpeting of wcm 813

Qty nile T.M.B.P.N. (2)

= 235.30 m²

② 3851.98/m² - R. 1137490 =

(12/31) Lumber excavation for

founder of stanchion - d

→ d d 21 I

Qty nile T.M.B.P.N. (2)

= 31.32 m²

② 269.32/m² - R. 843520

(13) Lumber P.C.C. M15 mix

32 (1:2:5:5) as leveling

crush - d 21 I

Qty nile T.M.B.P.N. (2)

= 5.69 m²

② 5083.47/m² - R. 2892600

(14) Lumber P.C.C. in

substructure - d 21 I

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Qty. of T.M.B					
$P_8 N_8 \text{ (B)} = 30.33 \text{ M}^2$					
@ 5880.05 / M ² - B					178342 =
(15)					
34 Lining R.C.C. N.P.					
Like subgrade					
Laying - d B.I					
Qty. of T.M.B (B)					
= 15.00 M					
@ 1038.67 / M ² - R					15580 =
1000 under					
(16) 38 E/W in excavation					
for foundation of					
Structure - d B.I					
Qty. of T.M.B P ₈ N ₈ (B)					
= 119.19 M ²					
@ 269.32 / M ² - R					3210030 =
17					
37 Lining R.C.C. N.P.					
Normal mix of 1:2:5					
in foundation - d B.I					
Qty. of T.M.B P ₈ N ₈ (B)					
= 18.38 M ²					
@ 5083.62 / M ² - R					93437 =
(18) Lining & lean concrete					
38 in subgrade - d B.I					
Qty. of T.M.B P ₈ N ₈ (B) = 134.97 M ²					
@ 5880.05 / M ² - R					793630 =

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(15) kg Rice and legumy					
Rice 81 kg 1000 ml					
— d d BLS					
Atyule T.M. B.R. No (4)					
= 30 M					
(16) 3807 = 39/m R 11422220					
Total R 2990636					
Add Lahan Cals - 17					(A) R - 389953 = 0
G.S.T 127					R - 3389589 = 0
Less 1st Ashu Agumy					(C) R - 338959 = 0
					Net R 3050630 = 0
Add Lahan Cals 17					Total B - 5152834 = 0
G.S.T 127					+ R 669868 = 0
					Total B - 5822702 = 0
Less 1st Ashu Agreement					GR 582270 = 0
					Net B - 5240432 = 0

Dr.
11/01/2021
J.C.

3 km
11-1-21
H2

C.P.
J.K. Shrestha
27/1/21

Material Statement

(1) Stoucheys - 650.74 M³

(2) Stone Metal - 357.31 M³

(3) bed soil - 334.65 M³

(4) Crushed Soil - 74.38 M³

(5) Cement - 900 bags

Dr.
11/01/2021
J.C.

3 km
11-1-21
H2