

To, To Sonawam P. Pathi

(MIR)

Shedule XLV Form No. 134.

Ajay Engineering

Bhabua

DIVISION

Rampur

SUB-DIVISION

16/12

Measurement Book

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2nd R/A Bill					
(Final Bill of Materials)					
Nile work:- MIR to Road					
From TOI To Sonawan					
P. Pathi Length 1.911km					
in Rampur Block					
PKG NO:- MR-N/2022-2023					
Bhabhua/25					
Tender ID 124452					
There are two roads in					
this Package including					
Two Road)					

Name of Contractor:- Ajay Engicon					
Pvt Limited					
B.O - S/O - Mathura Prasad Singh					
Kshatriya Nagar					
Aurangabad (Bihar)					
Bid id (540008)					
Agreement NO- MB D-04/2023-24					
Date of Agreement → 10-07-2023					
Date of Start → 23-06-2023					
Date of Completion (As per Agt) → 22/07/24					
[A] Agreement Value of this Package:-					
(Two Road)					
(i) Construction Amount of 1578501/-					
(ii) Five Years maintenance of 4888823/-					
Total ₹ 20673834/-					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
[B] Agreement Amount of this Road:-					
(i) Construction Amount					₹ 61,16,159 =
(ii) Five years Maintenance					₹ 19,26,377 =
Total					₹ 80,53,036 =
Accepted Rate @ 10.0% Below B.O.B.					
[C] A.A. Amount:- (131.911 Km)					
(i) Cost of initial rectification with surface renewal					₹ 59,08,000
(ii) Cost of five years Maintenance					₹ 21,60,300
(iii) Cost of Emergency Repare (10.0%)					₹ 5,90,000
Total					₹ 86,51,100
विदे पत्रिक मुद्रा-4 (मुद्रा)-3054-01-2 फोर 1796/ पत्रिका दिनांक- 20-03-2023					
[D] T.S. Details:-					
(i) Construction Amount					₹ 67,923
(ii) Five years Maintenance					₹ 21,516
Total					₹ 89,479
विदे T.S. NO-112 Dt-15-4-2023 CE-01 R. and B. in hand. P. and B.					

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>CONTRACTOR'S DETAILS:-</u>					
PAN →	AADCA2509E				
G.S.T. →	10 AADCA2509E1ZK				
REGISTRATION NO:-	216618				
CLASS, R.L.D. BIHAR					
<u>Date of Actual Completion:-</u>					
(Physically) →	22/3/2024				
<u>[E] Work to be done as per agreement:-</u>					

(i) SDBC →	1561.0m
	⊕ 300.0m
Total →	1861.0m.
(ii) PCC Pavement →	50.0m
Total L →	1.911 km
(iii) HFC - 2 Nos (1x600mm d NP ₃)	
<u>Work Done:-</u>	
[F] SDBE:-	
(i) Form Ch →	0.0m to 1160.0m
	⇒ 1160.0m
(ii) Form Ch →	1210.0m to 1800.0m
	⇒ 590.0m
In Lion Road (8m x 15m) Near School	
Ch → 0.0 to 104.0m	⇒ 104.0m
SDBE Total	1854.0m
Continuation	
(iii) PCC Form Ch →	1160.0m to 1210.0m
	⇒ 50.0m
Total L →	1904.0m

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(iv) H.P.C. (1x600mm) (NP ₂)					
(i) at Ch → 428.0 m					
(ii) at Ch → 1714.0 m					
Date of measurements - 16 th 2024					
To 19/4/2024					
Date of Entry → 19/4/2024					
Measurements					
Steno (i) Clearing and					
2.2. Graveling the road					
Land at do egg					
(i) Further measurements					
including Link Road (In Link Road)					
90.0 m ² [3x30.0 m] x 2.00 m					
					= 360.0 m ²
14.0 m ² [1x14.0 m] x 2.00 m ⇒ 56.0 m ²					
Total (L) (i) ⇒ 104.0 m ⇒ 416.0 m ²					
					10520
					⇒ 0.0416 Hect
(ii) Add Qty of					
T.M.B. P/2 item (i)					
L → 1450.0 m					
					Qty ⊕ 0.580 Hect
Total (L) 1554.0 m (Qty) ⇒ 0.6216 Hect					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item No (2) Providing and					
47.3A Laying 1:2:4 concrete					
do do as per Bill					
Further measurement					
(i)	5	4.95	0.98	0.075	
					$= 1.82 m^3$
(ii)					
Area $\Rightarrow$					$\frac{1.82 m^3}{0.075 m} \Rightarrow 24.26 m^2$
Add Qty vide T.M.B.					
P/S item No (8) (i)					75.19 m ³
Total L.B.M (1-3) $\Rightarrow$					$(1.82 m^3 + 75.19 m^3)$
					$\Rightarrow 77.01 m^3$
Item No (3) Providing and					
S.I. applying primer					
Coat (SS) do do Bill					
(i) Q.V.T.M.B P/21					
item No (5) (ii) "xx" marked					24.26 m ²
(ii) Add Q.V.T.M.B					
P/6 item No (6)					$\oplus 1002.53 m^2$
(iii) Total $\Rightarrow$					1026.79 m ²

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item No (7) Providing and S.G. applying Tack-coat (RSI) below (mss) do do es					
Q.v.T.M.B P/2:1 item No (7)					
(ii) 'xx' marked					
					$\Rightarrow 24.26 m^2$
Item No (8) Providing Laying S.II and Rolling mss do do es					
(i) Q.v.T.M.B P/S Item No (8)					$2349.30 m^2$
(ii) Q.v.T.M.B P/2:1 item No (8) (ii) 'xx' marked					$\Rightarrow 24.26 m^2$
(iii) Total mss					$\Rightarrow 2373.56 m^2$
Item No (5/7) Providing and S.G. applying Tack-coat (RSI) with Bitumen Emulsion (RSI) Below S.D.R do do es per direction of Engineer					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Tack Coret (R.S.) Below SDBC					
Further Measurement					
in Link (Starts from 1508.0m in					
Measurement):					
(i) Starts from 'x' marked					
4.0m length (Ahead)					
$16.0m [(1 \times 16.0m)] \times (5.4 + 3.75)$					
					$\Rightarrow 70.0m^2$
$60.0m [(2 \times 30.0m)] \times 3.75m$					
					$= 225.0m^2$
$24.0 [(1 \times 24.0m)] \times 3.75m$					
					$= 90.0m^2$
(i) Total Tack Coret	1				
Below SDBC (L) 100.0m					$\Rightarrow 88.0m^2$
(ii) Add Qty side					
T.M.B.P. / 2 item (4) $\oplus$ 24.26m ²					
(Below MSS)					
(iii) Total					$409.26m^2$
(iv) Add Qty side					
T.M.B.P. / 9-10 item (10) $\oplus$ 899.410					
(Below MSS & Below SDBE (L) $\Rightarrow$ 1754.0m)					
(v) Total Tack Coret					
(Below MSS & Below SDBE (L) $\Rightarrow$ 1854.0m)					$\Rightarrow 9403.86m^2$

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Steno (89) Providing and					
SIT. Laying semi dense					
Bituminous Concrete					
(SDBC) at do as					
as per direction of E.D.					
Q.1 further measurement					
in Link Road (starts from					
Ch → 1508.0 m (near school) in					
road after 4.10 m length xx					
marked width 11					
16.10 m [(11 x 16.0 m)] x (5.10 + 3.75) m x 0.025 m					
					= 1.175 m ³

$$60.0 \text{ m} [(3 \times 20.0 \text{ m})] \times 3.75 \text{ m} \times 0.025 \text{ m} = 5.625 \text{ m}^3$$

$$24.0 \text{ m} [(1 \times 24.0 \text{ m})] \times 3.75 \text{ m} \times 0.025 \text{ m} = 2.25 \text{ m}^3$$

$$(i) \text{ Total SDBC } L \rightarrow 100.0 \text{ m } Q \rightarrow 9.625 \text{ m}^3$$

(ii) Add Qty wide T.M.B

P.NO (11) Item NO (119)

$$L \rightarrow 1754.0 \text{ m} \Rightarrow \oplus 166.12 \text{ m}^3$$

$$\text{Total (L)} \{(i) + (ii)\} \rightarrow 1854.0 \text{ m}$$

$$Q \rightarrow 175.745 \text{ m}^3$$

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item No (10/10) Construction of G.I.					
Day lean concrete					
DLC d to do as					
Redirection of egg					
$1.4 \times 1.4 \times 1.4 \times 0.10 = 1.40 \text{ m}^3$					
$1 \times 1.30 \times 1.40 \times 0.10 = 0.13 \text{ m}^3$					
Total $\Rightarrow 1.53 \text{ m}^3$					
Item No (10/11) Construction of G.I.					
PCC Pavement d to do					
M30 d to do egg					
(i) From Ch $\Rightarrow 1160.0 \text{ m}$ to					
1210.0 m					
(a) in length cross (undulated portion)					
$15 \times 1.4 \times 0.80 \times 0.075 \text{ m}$					
$= 0.90 \text{ m}^3$					
$5 \times 1.20 \text{ m} \times 0.50 \text{ m} \times 0.075 \text{ m}$					
$= 0.225 \text{ m}^3$					
(a) Total Qty $\Rightarrow 1.125 \text{ m}^3$					
(b) PCC in Full width					
$50.0 \text{ m} [(2 \times 250 \text{ m})] \times 3.75 \text{ m} \times 0.10 \text{ m}$					
$= 18.75 \text{ m}^3$					
Total Qty of PCC					
(a + b) undulated portion					
& Full width 50.0 m					
$\Rightarrow 19.875 \text{ m}^3$					

Continuation

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item No (14/3) Construction of					
8.1.4 Subgrade and					
earthen shoulder					
do do as per spec					
Q.R as per Graph					
attached					$\Rightarrow 541.04 m^3$
Item No (15/12) RCC M15 Grade					
10.1					
in do do (i) ordinary					
KM Stone do do spec					
					8 NO
Item No (16/13) RCC M15 Grade					
10.1					
do do (i) 200mm Stone					
precast do do spec					
					8 NO
Item No (17/14) Providing and					
10.2					
fixing retro-reflectised					
Cautionary do do spec					
(i) 60cm Equilateral Triangle					
					6 NOS
Item No (18/15) Providing and					
10.2					
fixing retro-reflective					
(i) 60cm (150mm x 150mm)					
					4 NO
Item No (19/16) Providing and					
10.2					
fixing retro-reflect - (iii)					
650mm x 450mm rectangular spec					

Continuation

8 NO

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item No (20/20) Guard Stone					
Boundary Stone do do					88 Nos
Item No (21/17) Providing and					
10.8. Laying hot applied					
thermoplastic do do					
on					
BT surface					
146.0 2 [38 x 30.0m] x 0.10m					= 228.0m ²
20.0m 2 [1 x 20.0m] x 0.10m					= 4.0m ²
570.0m 2 [15 x 30.0m] x 0.10m					= 114.0m ²
20.0m 2 [1 x 20.0m] x 0.10m					= 4.0m ²
In Link					
104.0m [3 x 30.0m] + [1 x 14.0m] x 0.10m					= 20.80m ²
Total (1) = 1854.0m Qty = 870.80m ²					
Item No (22/18) Providing and applied					
10.8. Thermoplastic do do (i.e.					
Posters) do do					
50.0m 2 [2 x 5.0m] x 0.10 = 10.0m ²					
Item No (23/21) Planting Tree					
11.9. do do as per					
direction of					
					120 Nos

Continuation

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[illegible]

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Material Statement (update):-					
(1) Earthwork:-					564.10 m ³
(2) Stone-metrel:-					93.45 m ³
(3) Screening materials:-					18.50 m ³
(4) Stone chips:-					392.85 m ³
(5) Coarse Sand:-					37.40 m ³
(6) Bricks:-					1015.00 Nos
(7) Bitumen Emulsion (SS1)					:- 0.873 MT
(8) Bitumen Emulsion (RS1)					:- 2.586 MT
(9) Bitumen V-G-10:-					24.79 MT
19/4/2024 JE					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2nd R/A Bilal					
(Final of Construction Level)					
DOAC → (Physically) →					22/8/2024
Date of Entry →					13/4/2024
All City side T.M.B.					
Item No (1) Clearing and					
2.2. Grabbing the road					
Land & do as					
per direction of					
P/20 item No (1)					
0.62 Hect					
@ ₹ 72697.86/Hect					
					₹ 45072 = w

Item No (2) Control Subgrade					
3.14. and earthen shoulders					
do do					
P/27 item No (14) 541.04 m ³					
@ ₹ 282.86/m ³					₹ 142758 =
Item No (3) Providing Laying					
47.3A and spreading 100 mm					
do do as per					
P/21 item No (2) 77.01 m ³					
@ ₹ 5416.88/m ³					₹ 417153 = w
Item No (4) Providing and					
S.I. applying primer coat					
(SS1) do do					
P/21 item No (8) (iii) 1026.75 m ²					
@ ₹ 60.64/m ²					₹ 62264 = w

Continuation ₹ 667,247 = w

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.F ₹ 667,247=0
Item No (9/7) Providing and					
S.G. applying Tar-coat					
(RSI) d-d do ell					
P/22-item No (9/7)(v)					
9403.36 m ²					
@ ₹ 20.85/m ²					₹ 1,96,060=0
Item No (9/8) Providing laying					
S.11. Rolling mass d-d do					
as per direction of ell					
P/22 item No (9/8)(iii)					
2373.56 m ² @ ₹ 248.29/m ²					₹ 5,77,463=0
Item No (9/9) Providing and					
S.7. Laying S.D.B.C. d-d do					
as per ell					
P/24 item No (9/9) 175.745 m ³					
@ ₹ 14820.99/m ³					₹ 25,16,842=0
Item No (9/10) Construction of					
G.1. Dry lean Concrete d-d do ell					
P/25 item No (9/10) 1.53 m ³					
@ ₹ 4956.56/m ³					₹ 75,83=0
Item No (9/11) Const of P.C.C. m ³					
G.4. Pavement d-d do ell					
P/25 item No (10/11) 19.1875 m ³					
@ ₹ 8926.59/m ³					
					₹ 17,74,16=0
					₹ 4,42,61=0

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.F. ₹ 41,426.11 = 20
Item No (10/12) RCC MIS Grade					
10.1. in (i) 800mm x 100mm					
Stone do do E/D					
P/27 item No (15/12) (i) 8 Nos					
@ ₹ 2915.49/ea @ ₹ 8746 = 4					
Item No (11/12) RCC MIS Grade					
10.1 (ii) 200mm Stone E/D					
P/27 item No (16/12) (ii)					
8 Nos @ ₹ 820.55/ea @					
₹ 6564 = 20					
Item No (12/14) Providing and					
10.2. fixing motor reflectorises					
do do (i) 60cm Equilateral					
Triangle do do E/D					
P/27 item No (17/14) (i) 6 No					
₹ 4366.76/ea @ ₹ 26,200 = 20					
Item No (13/15) Providing & fixing do do					
10.2 (ii) 60cm Circular E/D					
P/27 item No (18/15) (ii) 4 No					
@ ₹ 4220.97/ea @ ₹ 16,883 = 20					
Item No (14/16) Providing and					
10.2. fixing do do do					
(iii) 600mm x 450mm rectangular					
E/D P/27 item No (19/16) (iii)					
8 Nos @ ₹ 4081.25/ea @ ₹ 32650 = 20					

Continuation ₹ 42,33,654 = 40

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.F. ₹ 42,33,654=0
Item No (15/17) Providing d					
10.8. Laying hgt applied					
(BT) do do ell					
P/28 item No (21/17)					
370.80 m ²					
@ ₹ 886.39 / m ²					₹ 328,673=0
Item No (16/18) Providing laying					
10.8. hgt applied (CC Section)					
do do ell					
P/28 item No (22/18)					
10.0 m ² @ ₹ 1004.15 / m ²					
					₹ 10,041=0
Item No (17/19) Providing and					
10.6. Fixing typical					
mm GSY information					
sign Board do do ell					
P/29 item No (24/19) 2 Nos					
@ ₹ 10911.77 / ea					₹ 21,823=0
Item No (18/20) Guard Stone /					
15.13 RCD Boundary stone do do					
ell					
P/28 item No (25/20) 88 Nos					
@ ₹ 692.52 / ea					₹ 60,941=0
Item No (19/21) Planting Trees					
11.9. RCD do do ell					
P/28 item No (23/21) 120 Nos					
@ ₹ 1254.41 / ea					₹ 150,529=0
					₹ 48,05,661=0

Continuation

Sch. XLV-Form No. 134 B.F. ₹ 48,05,66/-

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.F. ₹ 1,50,529/-
Item No (20/22) Plastering					
(230) A with CM (1:4)					
on B.I. one door					
P/26 item No (12/22)					
14.85 m ²					
@ ₹ 196.71/m ²					₹ 2921/-
Item No (21/23) B.I. in CM (1:3)					
13.9					
direction of B.I.					
P/26 item No (12/23) 2.025 m ³					
@ ₹ 6881.35/m ³					₹ 13,883/-
Item No (22/24) Paving top					
10.5					
coats of 10 as per					
P/26 item No (13/24) 95.49 m ²					
@ ₹ 135.23/m ²					₹ 12,913/-
Item No (23/25) Excavation					
9.1/11.1 of 10 as per					
P/3 item No (7/25) 38.43 m ³					
@ ₹ 38.43 m ³					@ ₹ 388.28/m ³
					₹ 14729/-
Item No (24/26) Providing PCC 10/15					
11.4 (11) Grade in 10 as per					
P/3 item No (8/26) 6.655 m ³					
@ ₹ 6865.33/m ³					₹ 45,688/-
Item No (25/27) PCC 20 with 10					
12.5 (12) P/4 item No (4/27) 36.42 m ³					
@ ₹ 7884.58/m ³					₹ 287,156/-
Continuation					
					₹ 51,82,901/-

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B. F ₹ 51,82,901=0
Item No (26/28) Providing					
9.8 (B) RCC NP 3 600mm					
dia HP. d/c/clo (1)					
P/14 Item No (28) 15.0m					
⑥ ₹ 3227.08/m ²					
					₹ 48,406=0
Total Amount A ₹ 52,31,307=0					
Item No (27/29) GST @ 18%					
of Amount A @					
					④ ₹ 9,41,635=0
Item No (28/30) LC @ 1%					
of Amount A d/c/clo (1)					
					④ ₹ 52,313=0
Item No (29/31) S.F @ 0.8276%					
of Amount A @					
					④ ₹ 43,294=0
					₹ 62,68,549=0
Less @ 10.0% Bdn					
at per Agt					① ₹ 6,26,855=0
					₹ 56,41,694=0
Less P.P. under T.M.B					
P/16					① ₹ 43,60,020=0
Pay B/O					₹ 12,81,674=0

Continuation

17/4/2024
JE