

Schedule XLV-Form No. 134

Name of Road - Four lane N.H 36 to Budhdevchak

Car. Engo. R. W. D. Works **DIVISION**

Summary Cont. Eng

Fadhua **SUB-DIVISION**

MB No - 7686

MEASUREMENT BOOK

Confidential that this m.B

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 an A/L Bill

Name of work: - Repair & five years
maintenance of road
from four lane NH-30
to Badhdev Chak under
3054 MR

Agency - M/S Sunny Contractors and
Engineers Pvt. Ltd. West
Ghaziabad, Jalandhar

- Badh, Dist. Jalandhar-304408

Agreement no- 34/MBD/23-24

Rate Approved - 1.50% below.

Date of commencement - 26/08/2023.

Date of completion - 25/05/2024.

Date of measurement - 10/11/23.

work done

Item ① clearing & grubbing
road land - do - etc

$$2 \times 10 \times 30.00 \times 2.00 = 1200.00 \text{ m}^2$$

$$2 \times 10 \times 30.00 \times 2.00 = 1200.00 \text{ m}^2$$

$$2 \times 10 \times 30.00 \times 2.00 = 1200.00 \text{ m}^2$$

$$2 \times 10 \times 30.00 \times 2.00 = 1200.00 \text{ m}^2$$

Continuation of 4800.00 m²

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
					af = 4800.00 m ²
Item ① Land clearing & grubbing					
					2 x 10 x 30.00 x 2.00 = 1200.00 "
					2 x 10 x 30.00 x 2.00 = 1200.00 "
					2 x 2 x 30.00 x 2.00 = 240.00 "
					2 x 1 x 10.00 x 2.00 = 40.00 "
					7480.00 m ²
∴ area = 7480.00 m ² / 10,000 = 0.748 Hect.					
					say = 0.75 Hect.
Item ② Scarifying the area					

- 4 in OT Road Sur					
- face - do - do - etc					
					4 x 30.00 x 3.75 = 450.00 m ²
					1 x 5.00 x 3.75 = 18.75 "
					468.75 m ²
Item ③ Construction of embankment with material obtained from borrow pits with a lead up to 1000.0 m - do - etc					
					2 x 10 x 30.00 x 1.125 (H) x 0.600 (D) = 405.00 m ³

Continuation

405.00 m³

P.T.O

Certified that this m.B

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
					18F = 405.00 m ³
Item ③ Contd. (contn) of m.					
- Bankment					
2x10x30.00x1.125x0.600 (H)					405.00 "
2x10x30.00x1.125x0.600 (H)					405.00 "
2x10x30.00x1.125x0.600 (H)					405.00 "
2x1x30.00x1.125x0.600 (H)					40.50 "
2x1x90.00x1.125x0.600 (H)					97.00 "
					1687.50 m ³

Item ④ Construction of sub-

grade weather shed
- 100x - - - - -

Rec Portion:-

$$2 \times 10 \times 30.00 \times 0.600 \times 0.300 = 112.50 \text{ m}^3$$

$$2 \times 10 \times 30.00 \times 0.600 \times 0.300 = 112.50 \text{ m}^3$$

$$2 \times 1 \times 90.00 \times 0.600 \times 0.300 = 7.50 \text{ m}^3$$

B.T. Portion:-

$$2 \times 10 \times 30.00 \times 1.125 \times 0.300 = 202.50 \text{ m}^3$$

$$2 \times 10 \times 30.00 \times 1.125 \times 0.300 = 202.50 \text{ m}^3$$

$$2 \times 10 \times 30.00 \times 1.125 \times 0.300 = 202.50 \text{ m}^3$$

$$2 \times 10 \times 30.00 \times 1.125 \times 0.300 = 202.50 \text{ m}^3$$

$$2 \times 1 \times 90.00 \times 1.125 \times 0.300 = 90.75 \text{ m}^3$$

$$2 \times 1 \times 90.00 \times 1.125 \times 0.300 = 13.50 \text{ m}^3$$

Continuation

1076.25 m³

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Ham ⑤ Construction of S/S/D					
G.R. with well graded					
material - do - do etc					
1x 6.00 x 2.20 x 0.150 =					1.98 m ³
1x 5.00 x 2.50 x 0.150 =					1.88 "
1x 4.00 x 2.30 x 0.150 =					1.38 "
1x 7.00 x 1.90 x 0.150 =					2.00 "
1x 4.00 x 2.50 x 0.150 =					1.50 "
1x 6.00 x 1.90 x 0.150 =					1.71 "
1x 7.00 x 2.40 x 0.150 =					2.52 "
1x 6.00 x 2.50 x 0.150 =					2.25 "
1x 7.00 x 2.00 x 0.150 =					2.10 "
1x 8.00 x 2.20 x 0.150 =					2.64 "

1x 6.00 x 2.30 x 0.150 =	2.07 "
1x 8.00 x 2.40 x 0.150 =	2.88 "
1x 7.00 x 2.20 x 0.150 =	2.31 "
1x 9.00 x 1.80 x 0.150 =	2.43 "
1x 8.00 x 2.20 x 0.150 =	2.64 "
1x 10.00 x 2.40 x 0.150 =	3.60 "
1x 6.00 x 2.30 x 0.150 =	2.07 "
1x 8.00 x 2.30 x 0.150 =	2.76 "
1x 4.00 x 1.60 x 0.150 =	0.96 "
1x 5.00 x 1.50 x 0.150 =	1.13 "
1x 7.00 x 1.20 x 0.150 =	1.26 "
1x 8.00 x 1.30 x 0.150 =	1.56 "
1x 6.00 x 1.70 x 0.150 =	1.53 "

Continuation

PTD

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
<u>Item (5) Contd (B.S.D 4r-1)</u>					
1x	10.00	1.90	0.150		2.70 m ³
1x	3.00	1.60	0.150		0.72 "
1x	4.00	1.90	0.150		1.14 "
1x	7.00	2.00	0.150		2.10 "
1x	9.00	2.20	0.150		2.97 "
1x	8.00	2.10	0.150		2.52 "
1x	5.00	2.00	0.150		1.50 "
1x	4.00	1.80	0.150		1.08 "
1x	7.00	2.10	0.150		2.21 "
1x	6.00	1.70	0.150		1.53 "
1x	8.00	1.60	0.150		1.92 "
1x	4.00	1.90	0.150		1.14 "
1x	5.00	2.10	0.150		1.58 "
1x	5.00	2.20	0.150		1.65 "
1x	8.00	2.30	0.150		2.76 "
					74.66 m ³
<u>Item (6) Prov. laying, spreading</u>					
x Compacting stoneagg-					
- regular of specific sizes					
to 10mm & 20mm etc					
1x	6.00	2.40	0.075		1.08 m ³
1x	5.00	2.70	0.075		1.01 m ³

Continuation

PTD

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
<u>Item (6) Contd (WBM Gr. II)</u>					
1 x 4.00 x 2.50 x 0.075 =					0.75 m ³
1 x 7.00 x 2.10 x 0.075 =					1.10 "
1 x 4.00 x 2.70 x 0.075 =					0.81 "
1 x 6.00 x 2.10 x 0.075 =					0.95 "
1 x 7.00 x 2.60 x 0.075 =					1.37 "
1 x 6.00 x 2.70 x 0.075 =					1.22 "
1 x 7.00 x 2.20 x 0.075 =					1.16 "
1 x 8.00 x 2.40 x 0.075 =					1.44 "
1 x 6.00 x 2.50 x 0.075 =					1.13 "
1 x 8.00 x 2.60 x 0.075 =					1.56 "
1 x 7.00 x 2.40 x 0.075 =					1.26 "

1 x 9.00 x 2.00 x 0.075 =	1.35 "
1 x 8.00 x 2.40 x 0.075 =	1.44 "
1 x 10.00 x 2.60 x 0.075 =	1.95 "
1 x 6.00 x 2.50 x 0.075 =	1.13 "
1 x 8.00 x 2.50 x 0.075 =	1.50 "
1 x 4.00 x 1.80 x 0.075 =	0.54 "
1 x 5.00 x 1.70 x 0.075 =	0.64 "
1 x 7.00 x 1.40 x 0.075 =	0.74 "
1 x 8.00 x 1.50 x 0.075 =	0.90 "
1 x 6.00 x 1.90 x 0.075 =	0.86 "
1 x 10.00 x 2.00 x 0.075 =	1.50 "
1 x 3.00 x 1.80 x 0.075 =	0.41 "
1 x 4.00 x 2.10 x 0.075 =	0.63 "
1 x 7.00 x 2.20 x 0.075 =	1.16 "

Continuation

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
<u>Hand Contd (work in II)</u>					
$1 \times 9.00 \times 2.40 \times 0.075 = 1.52 \text{ m}^3$					
$1 \times 8.00 \times 2.30 \times 0.075 = 1.38 \text{ ''}$					
$1 \times 5.00 \times 2.20 \times 0.075 = 0.83 \text{ ''}$					
$1 \times 4.00 \times 2.00 \times 0.075 = 0.60 \text{ ''}$					
$1 \times 7.00 \times 2.30 \times 0.075 = 1.21 \text{ ''}$					
$1 \times 6.00 \times 1.90 \times 0.075 = 0.86 \text{ ''}$					
$1 \times 8.00 \times 1.80 \times 0.075 = 1.08 \text{ ''}$					
$1 \times 4.00 \times 2.10 \times 0.075 = 0.63 \text{ ''}$					
$1 \times 5.00 \times 2.30 \times 0.075 = 0.86 \text{ ''}$					
$1 \times 5.00 \times 2.40 \times 0.075 = 0.90 \text{ ''}$					
$1 \times 8.00 \times 2.50 \times 0.075 = 1.50 \text{ ''}$					

1x	7.00	x 2.20	x 0.075 =	1.16"	
1x	8.00	x 1.40	x 0.075 =	0.84"	
1x	9.00	x 1.90	x 0.075 =	1.28"	
1x	10.00	x 2.20	x 0.075 =	1.65"	
1x	5.00	x 2.10	x 0.075 =	0.79"	
1x	9.00	x 2.30	x 0.075 =	1.55"	
1x	4.00	x 2.00	x 0.075 =	0.60"	
1x	6.00	x 2.30	x 0.075 =	1.04"	
1x	7.00	x 2.60	x 0.075 =	1.37"	
1x	5.00	x 2.10	x 0.075 =	0.79"	
					52.06 m ³

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Item ⑦ Prov. laying spreading & compacting of stone aggregates of spec. fin. class to 13 mm ϕ					
--- do --- etc					
1x 6.00 x 2.50 x 0.075					1.13 m ³
1x 5.00 x 2.80 x 0.075					1.05 "
1x 4.00 x 2.60 x 0.075					0.78 "
1x 7.00 x 2.90 x 0.075					1.16 "
1x 4.00 x 2.80 x 0.075					0.84 "
1x 6.00 x 2.90 x 0.075					0.99 "
1x 7.00 x 2.70 x 0.075					1.42 "
1x 6.00 x 2.80 x 0.075					1.26 "
1x 7.00 x 2.30 x 0.075					1.21 "
1x 8.00 x 2.50 x 0.075					1.50 "
1x 6.00 x 2.60 x 0.075					1.17 "
1x 8.00 x 2.70 x 0.075					1.62 "
1x 7.00 x 2.50 x 0.075					1.31 "
1x 9.00 x 2.10 x 0.075					1.42 "
1x 8.00 x 2.50 x 0.075					1.50 "
1x 10.00 x 2.70 x 0.075					2.03 "
1x 6.00 x 2.60 x 0.075					1.17 "
1x 8.00 x 2.60 x 0.075					1.56 "
1x 4.00 x 1.90 x 0.075					0.57 "
1x 5.00 x 1.80 x 0.075					0.68 "
1x 7.00 x 1.50 x 0.075					0.79 "

Continuation

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Item (7) Cont (under gr-m)					
					$1 \times 3.00 \times 1.60 \times 0.075 = 0.96 \text{ m}^3$
					$1 \times 4.00 \times 2.00 \times 0.075 = 0.90 \text{ m}^3$
					$1 \times 10.00 \times 2.10 \times 0.075 = 1.58 \text{ m}^3$
					$1 \times 3.00 \times 1.90 \times 0.075 = 0.43 \text{ m}^3$
					$1 \times 4.00 \times 2.20 \times 0.075 = 0.66 \text{ m}^3$
					$1 \times 7.00 \times 2.30 \times 0.075 = 1.21 \text{ m}^3$
					$1 \times 9.00 \times 2.50 \times 0.075 = 1.69 \text{ m}^3$
					$1 \times 8.00 \times 2.40 \times 0.075 = 1.44 \text{ m}^3$
					$1 \times 5.00 \times 2.30 \times 0.075 = 0.86 \text{ m}^3$
					$1 \times 4.00 \times 2.10 \times 0.075 = 0.63 \text{ m}^3$
					$1 \times 7.00 \times 2.40 \times 0.075 = 1.26 \text{ m}^3$
					$1 \times 6.00 \times 2.00 \times 0.075 = 0.90 \text{ m}^3$
					$1 \times 8.00 \times 1.90 \times 0.075 = 1.14 \text{ m}^3$
					$1 \times 4.00 \times 2.20 \times 0.075 = 0.66 \text{ m}^3$
					$1 \times 5.00 \times 2.40 \times 0.075 = 0.90 \text{ m}^3$
					$1 \times 5.00 \times 2.50 \times 0.075 = 0.94 \text{ m}^3$
					$1 \times 8.00 \times 2.60 \times 0.075 = 1.56 \text{ m}^3$
					$1 \times 7.00 \times 2.30 \times 0.075 = 1.21 \text{ m}^3$
					$1 \times 8.00 \times 1.50 \times 0.075 = 0.90 \text{ m}^3$
					$1 \times 9.00 \times 2.00 \times 0.075 = 1.35 \text{ m}^3$
					$1 \times 10.00 \times 2.30 \times 0.075 = 1.73 \text{ m}^3$
					$1 \times 5.00 \times 2.20 \times 0.075 = 0.83 \text{ m}^3$
					$1 \times 9.00 \times 2.40 \times 0.075 = 1.62 \text{ m}^3$
					$1 \times 4.00 \times 2.10 \times 0.075 = 0.63 \text{ m}^3$
					$1 \times 6.00 \times 2.40 \times 0.075 = 1.08 \text{ m}^3$

Continuation

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Sch.XLV-Form No. 134					Contents of area
Particulars	Details of actual measure				
	No.	L.	B.	D.	
Elem (7) Contd (from 98-TV)					
1x 7.00x2.70x0.075=					1.42 m ³
1x 5.00x2.20x0.075=					0.83 "
1x 8.00x2.50x0.075=					1.50 "
1x 7.00x2.40x0.075=					1.26 "
1x 8.00x2.60x0.075=					1.56 "
1x 5.00x2.00x0.075=					0.75 "
1x 7.00x2.50x0.075=					1.31 "
1x 8.00x2.60x0.075=					1.56 "
1x 6.00x2.10x0.075=					0.95 "
1x 7.00x2.30x0.075=					1.21 "
1x 8.00x2.40x0.075=					1.44 "

1x 6.00x2.50x0.075					1.13 "
1x 4.00x2.30x0.075					0.69 "
1x 6.00x1.90x0.075					0.86 "
1x 8.00x2.30x0.075					1.38 "
1x 7.00x2.50x0.075					1.31 "
1x 9.00x2.40x0.075					1.62 "
1x 5.00x2.40x0.075					0.90 "
1x 7.00x2.90x0.075					1.16 "
1x 5.00x2.10x0.075					0.79 "
1x 6.00x1.80x0.075					0.81 "
1x 8.00x1.90x0.075					1.14 "
1x 9.00x2.30x0.075					1.55 "
1x 7.00x2.40x0.075					1.26 "
1x 11.00x2.20x0.075					1.82 "

Continuation

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Item (1) Contd. from p. 10					
1 x 4.00 x 2.00 x 0.075 =					0.60 m ³
1 x 6.00 x 2.10 x 0.075 =					0.95 "
1 x 6.00 x 2.10 x 0.075 =					0.95 "
					84.85 m ³
Item (8) Prov. & applying binder					
Cost with binder and					
- 1.00 m (SS-1) - do - etc					
Qty side 11m (7)					
84.85 m ³ / 0.075 =					1131.33 m ²
Item (9) Prov. & applying tack					
coat with binder and					
binder (SS-1) - do - etc					
Qty same side 11m (8) as					
Primer coat =					1131.33 m ²
Item (10) Prov. & applying & rolling of					
close graded brown Gm					
Leaving material 1000 mm					
Thick - do - do - etc.					
Continuation					
Qty same side 11m (9) as					
Tack coat → 1131.33 m ²					

Continued from this m.B

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Item (11) Prov. & supplying back coat with bitumen emulsion (Rs-1) - do - etc					
From four lane					
	1	15.00	9.00	3.75	$= 95.63 m^2$
	10	30.00		3.75	$= 1195.00 "$
	9	30.00		3.75	$= 990.00 "$
	1	5.00		3.75	$= 18.75 "$
Near Tirah	1	15.00	3.75	7.00	$= 80.63 "$
	1	15.00	5.00	3.75	$= 65.63 "$
Towards	10	30.00		3.75	$= 1195.00 "$
Bughader chak 44	2	30.00		3.75	$= 295.00 "$
	1	15.00		3.75	$= 56.25 "$
	1	10.00		3.75	$= 51.25 "$
	1	5.00	6.50	3.75	$= 15.63 "$
	9	30.00		3.75	$= 1012.50 "$
					$4781.27 m^2$
Item (12) Prov. & laying S.D.B.C with 100-120 TPH better type M.M.P. - do - etc					
Area same as item 11					
(11) as per coat $= 4781.27 m^2$					
Qty $= 4781.27 m^2 \times 0.025 = 119.53 m^3$					

Continuation

PTD

Continuation

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Seigniorage					10%
(1) Earth		2763.75m ³			
10% of 2763.75 = 276.375					Rs 9742=00
(2) G.S.B.R.		74.66m ³			
10% of 74.66 = 7.466					Rs 4318=00
(3) W.B.M.		52.06m ³			
10% of 52.06 = 5.206					Rs 6915=00
(4) W.B.M.		84.85m ³			
10% of 84.85 = 8.485					Rs 12170=00
(5) M.S.		1131.22m ²			
10% of 1131.22 = 113.122					Rs 1313=00
(6) S.D.B.C.		119.53m ³			
10% of 119.53 = 11.953					Rs 7823=00

(7) D.L.C.		34.88m ³			
10% of 34.88 = 3.488					Rs 3194=00
(8) Faced concrete		308.15m ³			
10% of 308.15 = 30.815					Rs 34712=00

Rs 80,177=00

Signature
10/11/23
J.E.

Signature
10/11/23
A.E.

Continuation

Continuation