

Schedule XLV-Form No. 134

Name of work - Fadhua Chandani Pashar
Uttar Chamardeh Pani Tola Pashmik Vidyalaya

Ex. Eng. R.W.D. works DIVISION

Sumit Con.

Fadhua SUB-DIVISION

MB No 7609

MEASUREMENT BOOK

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 & first year Main					
- Terance of Road from					
Fateha Chandari Path					
Se Uthar Chamarokeh					
Parsi Tola Bahmnik vid-					
- 4th year work 3054 m ²					
Agency - M/s. S. K. Singh Contractors & Engineers Pvt. Ltd. West					
Ganeshi Maidan, Jahanabad,					
Dist. Jahanabad - 804408					
Agreement no. 34/MOD/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 - old - etc					
$2 \times 10 \times 30.00 \times 1.00 = 600.00 \text{ m}^2$					
$2 \times 8 \times 30.00 \times 1.00 = 480.00 \text{ m}^2$					
Continuation of 1020.00 m ²					

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
					$Bf = 1000.00 m^2$
Item ① Contd (clearing & grubbing)					
					$2 \times 1 \times 10.00 \times 1.00 = 20.00 "$
					$1100.00 m^2$
					$\therefore \text{Hect} = 1100.00 m^2 / 10000 = 0.11 \text{ Hect.}$

Item ② Construction of embankment with approved material obtained from borrow pits with a low

					up to 1000.00 m - 1000
					$2 \times 12 \times 30.00 \times 1.50 \times 0.375 (AV) = 272.50 m^3$
					$2 \times 8 \times 30.00 \times 1.50 \times 0.375 (AV) = 274.00 "$
					$2 \times 1 \times 10.00 \times 1.50 \times 0.375 (AV) = 9.75 "$
					$536.25 m^3$

Item ③ Construction of sub-grade & earthen slope under - RD - etc.

					$2 \times 10 \times 30.00 \times 1.125 \times 0.365 (AV) = 246.375 m^3$
					$2 \times 8 \times 30.00 \times 1.125 \times 0.365 (AV) = 197.10 "$
					$2 \times 1 \times 10.00 \times 1.125 \times 0.365 (AV) = 8.373 "$
					$451.698 m^3$

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Item (4) Construction of Sub- -grade by Prov. well graded ma- terial 4x1 - do - etc.					
1x 9.00 x 2.00 x 0.150 =					2.70 m ³
1x 8.00 x 2.30 x 0.150 =					2.76 "
1x 7.00 x 2.10 x 0.150 =					2.21 "
1x 5.00 x 1.70 x 0.150 =					1.26 "
1x 7.00 x 2.30 x 0.150 =					2.42 "
1x 9.00 x 1.70 x 0.150 =					2.30 "
1x 5.00 x 2.20 x 0.150 =					1.65 "
1x 7.00 x 2.30 x 0.150 =					2.42 "
1x 8.00 x 1.80 x 0.150 =					2.16 "
1x 9.00 x 2.00 x 0.150 =					2.70 "
1x 7.00 x 2.10 x 0.150 =					2.21 "
1x 8.00 x 2.20 x 0.150 =					2.64 "
1x 7.00 x 2.00 x 0.150 =					2.10 "
1x 9.00 x 1.60 x 0.150 =					2.16 "
1x 8.00 x 2.00 x 0.100 =					1.60 "
1x 10.00 x 2.20 x 0.100 =					2.20 "
1x 6.00 x 2.10 x 0.150 =					1.89 "
1x 8.00 x 2.10 x 0.150 =					2.52 "
1x 6.00 x 1.40 x 0.150 =					1.26 "
1x 7.00 x 1.30 x 0.150 =					1.37 "
1x 9.00 x 1.00 x 0.150 =					1.35 "
1x 10.00 x 1.10 x 0.150 =					1.65 "

Continuation

40 45.55 m³

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
				BF =	45.55 m ³
Item (4) Contd (45.13 gr. 2)					
1 x 8.00 x 1.50 x 0.100 =					1.20 m ³
1 x 12.00 x 1.60 x 0.100 =					1.92 "
1 x 5.00 x 1.40 x 0.150 =					1.05 "
1 x 6.00 x 1.70 x 0.150 =					1.53 "
1 x 9.00 x 1.80 x 0.150 =					2.43 "
1 x 11.00 x 2.00 x 0.150 =					3.30 "
1 x 10.00 x 2.20 x 0.150 =					3.30 "
1 x 7.00 x 2.10 x 0.150 =					2.21 "
1 x 6.00 x 1.90 x 0.150 =					1.71 "
1 x 7.00 x 1.30 x 0.150 =					1.37 "

1 x 9.00 x 1.00 x 0.150 =	1.35 "
1 x 5.00 x 1.40 x 0.150 =	1.05 "
1 x 0.90 x 0.75 x 0.150 =	0.10 "
1 x 5.60 x 1.25 x 0.150 =	1.05 "
	69.12 m ³

Item (5) Road laying, spreading	
& compacting stone ag.	
- preparation of subgrade	
to 12.00 m gr. in etc.	
1 x 9.00 x 2.20 x 0.075 =	1.49 m ³
1 x 8.00 x 2.50 x 0.075 =	1.50 "
Continuation	40 2.99 m ³

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
					$af = 2.99 m^3$
Item (5) Contd (1317 sq ft)					
1x 7.00x2.30x0.075=					1.21 "
1x 5.00x1.90x0.075=					0.71 "
1x 7.00x2.50x0.075=					1.31 "
1x 7.00x1.90x0.075=					1.28 "
1x 5.00x2.40x0.075=					0.90 "
1x 7.00x2.50x0.075=					1.31 "
1x 8.00x2.00x0.075=					1.20 "
1x 4.00x2.20x0.075=					1.49 "
1x 7.00x2.20x0.075=					1.31 "
1x 8.00x2.40x0.075=					1.44 "
1x 7.00x2.20x0.075=					1.16 "
1x 9.00x1.80x0.075=					1.22 "
1x 8.00x2.20x0.075=					1.38 "
1x 10.00x2.40x0.075=					1.80 "
1x 6.00x2.30x0.075=					1.04 "
1x 8.00x2.30x0.075=					1.38 "
1x 6.00x1.60x0.075=					0.72 "
1x 7.00x1.50x0.075=					0.79 "
1x 9.00x1.20x0.075=					0.81 "
1x 10.00x1.30x0.075=					0.98 "
1x 8.00x1.70x0.075=					1.02 "
1x 12.00x1.80x0.075=					1.62 "
1x 5.00x1.60x0.075=					0.60 "
1x 6.00x1.90x0.075=					0.86 "

Continuation $40 =$

Certified that this is

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Form (5) Contd. (containing 11)					
1x 9.00 x 2.00 x 0.075 =					1.35 "
1x 11.00 x 2.20 x 0.075 =					1.82 "
1x 10.00 x 2.40 x 0.075 =					1.80 "
1x 7.00 x 2.30 x 0.075 =					1.21 "
1x 6.00 x 2.10 x 0.075 =					0.95 "
1x 5.00 x 1.40 x 0.075 =					0.53 "
1x 6.00 x 1.00 x 0.075 =					0.45 "
1x 7.00 x 1.00 x 0.075 =					0.53 "
1x 8.00 x 1.30 x 0.075 =					0.78 "
1x 3.00 x 0.80 x 0.075 =					0.18 "
1x 5.00 x 1.00 x 0.075 =					0.38 "
1x 2.00 x 1.20 x 0.075 =					0.18 "
1x 4.00 x 1.10 x 0.075 =					0.33 "
1x 5.00 x 1.40 x 0.075 =					0.53 "
1x 8.00 x 1.30 x 0.075 =					0.78 "
1x 6.00 x 1.10 x 0.075 =					0.50 "
1x 11.00 x 1.20 x 0.075 =					0.99 "
1x 9.00 x 1.40 x 0.075 =					0.95 "
1x 10.00 x 1.60 x 0.075 =					1.20 "
1x 6.00 x 1.20 x 0.075 =					0.54 "
1x 8.00 x 1.90 x 0.075 =					1.14 "
1x 7.00 x 1.00 x 0.075 =					0.53 "
1x 9.00 x 1.40 x 0.075 =					0.95 "
1x 7.00 x 1.20 x 0.075 =					0.63 "
1x 8.00 x 1.20 x 0.075 =					0.72 "

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
21/05/2020 Contd (W.B. Ag. II)					
1x 9.00		1.90		0.075	1.28 "
1x 12.00		1.80		0.075	1.62 "
1x 11.00		1.30		0.075	1.07 "
1x 8.00		1.50		0.075	0.90 "
1x 7.00		1.40		0.075	0.74 "
1x 10.00		1.50		0.075	1.13 "
1x 9.00		1.70		0.075	1.15 "
1x 11.00		1.90		0.075	1.57 "
1x 7.00		1.60		0.075	0.84 "
1x 5.00		1.60		0.075	0.60 "
1x 5.00		1.70		0.075	0.64 "

61.91 m³

Item (6) Prov. & applying binder
coat with bitumen em-
ulsion (55-1) .. do etc

1x 30.00		5.00		3.75	131.25 m ²
6x 30.00		3.75			675.00 "
1x 30.00		3.75		4.00	116.25 "
1x 30.00		4.00		3.75	116.25 "
5x 30.00		3.75			562.50 "
1x 30.00		3.75		4.00	116.25 "
1x 30.00		4.00		3.75	116.25 "

Continuation

401833.75 m²

PTD

No.	L.	B.	D.	of area
Step (9) From applying tank coat with bitumen emulsion (RS-1) - do etc.				
1	30.00	5.00	3.75	131.25 m ²
6	30.00	3.75		675.00 "
1	30.00	3.75	4.00	116.25 "
1	30.00	4.00	3.75	116.25 "
5	30.00	3.75		562.50 "
1	30.00	3.75	4.00	116.25 "
1	30.00	4.00	3.75	116.25 "
1	30.00	3.75		112.50 "
1	10.00	3.75		37.50 "

1	30.00	3.75	4.25	120.00 "
				2103.75 m ²

Step (10) From laying SDBC

with 100-120 TPH

batch type HMP

... do - do - etc.

Area same as Item (9)

$$= 2103.75 \text{ m}^2$$

$$\text{Qty} = 2103.75 \text{ m}^2 \times 0.025 = 52.59 \text{ m}^3$$

Continuation

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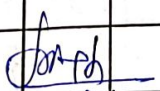
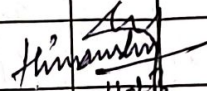
Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Item (11) R.C.C. 15 grade					
km. stone - do - etc.					
(i) km stone					2.00 nos.
(ii) 200M stone					2.00 nos.
Item (12) Direction & Place identification signs with					
size more than 0.90					
Sqm. sign board etc					
2 x 1.20 x 0.80 =					1.92 m ²
Item (13) Prov. & fixing of retro					
reflectorised cautionary					
mandatory & informative					
sign - do - do - etc.					
(i) 600 mm eq. & triangle					4.00 nos.
(ii) 600 mm circular					2.00 nos.
(iii) 600 x 450 mm rectangular					4.00 nos.
Item (14) R.C.C. 15 grade					
boundary pillar - do etc					
					Qty = 16.00 nos.

Continuation

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Item (15) Printing new letter & figures - do - etc. $4 \times 7 \times 4.00 = 16.00$ per sheet					
Item (16) Book binding of typi- cal memory informa- tory sign board etc Information signs & Maintenance work - 3.00 Mts.					
Item (17) Proc. & laying of hot applied thermoplastic compound - do - etc. $2 \times 10 \times 30.00 \times 0.100 = 60.00 m^2$ $2 \times 8 \times 30.00 \times 0.100 = 48.00 "$ $2 \times 1 \times 10.00 \times 0.100 = 2.00 "$ $110.00 m^2$ <i>(Signature)</i> 18/11/2018 J.E. <i>(Signature)</i> 10/11/2018 AE					

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
<u>ABSTRACT OF COST</u>					
<u>material statement</u>					
(i) Earth —					487.938 m ³
(ii) 53 mm to 9.5 mm S/Agg —					41.472 m ³
(iii) 9.5 mm to 2.36 mm S/Agg —					16.589 m ³
(iv) 2.36 mm below —					24.883 m ³
(v) 53 mm to 22.4 mm S/Agg —					74.911 m ³
(vi) Screening material —					14.358 m ³
(vii) 47 mm crushed Agg —					56.801 m ³
(viii) 9.5-4.75 mm Aggregate —					43.807 m ³
(ix) 4.75 & below —					31.57 m ³
(x) Emulsion (SS-1) —					1.788 m ³
(xi) Emulsion (RS-1) —					1.157 m ³
(xii) Portland cement (S-90) —					10.066 m ³
 10/11/23 J.E.  10/11/23 HE					

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
ABSTRACT OF COST					
(1) Clearing & grubbing road land - do - etc.					
0.11 Met. wide Tm mtl - (11)					
el. 75573 = 34/ Met - 12					8,313.00
(2) Construction of embankment with approved material obtained from borrow pits - do - etc.					
536.95 m ³ wide Tm mtl - (14)					
el. 959 = 19/ m ³ - 12					13,899.00
(3) Construction of sub grade & earthen shoulder - do - do - do - etc.					
451.688 m ³ wide Tm mtl - (14)					
el. 271 = 54/ m ³ - 12					12,265.00
(4) Construction of C&G by prov. well graded material - do - etc.					
69.12 m ³ wide Tm mtl - (14)					
el. 339 = 46/ m ³ - 12					2,34,902.00
(5) Prov. laying, spreading & compacting stone aggregates of specific sizes to 13 m gr. - do - etc.					
					el. 5,44,857.00

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Item ⑤ Gate (w/men 10)					Rs 514857.00
61.91 m ³ wide T.M.P. (15)					
Rs 5086 = 61/m ³ —				Rs 314912.00	
⑥ Prov. & applying primer coat with bitumen emulsion (SS-1) etc					
403.75 m ² wide T.M.P. (15)					
Rs 59 = 40/m ² —				Rs 124963.00	
⑦ Prov. laying & rolling of close graded granular surfacing material 75mm thick etc					
403.75 m ² wide T.M.P. (15)					
Rs 262 = 34/m ² —				Rs 551898.00	
⑧ Prov. & applying 1st coat with bitumen emul. - 80mm (RS-1) - etc etc					
407.50 m ² wide T.M.P. (15)					
Rs 20 = 94/m ² —				Rs 85160.00	
⑨ Prov. laying of 5.0 B.C. hot applied thin mo - plastic compound etc					
2.59 m ³ wide T.M.P. large (15)					
Rs 13333 = 78/m ³ —				Rs 701223.00	
					Rs 2283013.00

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
					13/12 2283013=00
(10)	R.C.C.M-15 g m ²				
	km. stone - do - etc.				
(11)	km. stone				
	2.00 m ² vide T m m ² (16)				
	el 2964 = 7/each - 16				5929=00
(12)	200 M stone				
	2.00 m ² vide T m m ² (16)				
	el 832 = 66/each - 16				1665=00
(11)	Direction & Place Identi- fication signs with time more than 0.90 gm --- do --- do --- etc.				
	1.92 m ² vide T m m ² (16)				
	el 14085 = 37/m ² - 16				26929=00
(12)	Prov. & fixing of retro reflectorised caution- ary, mandatory & in- formatory signs - do - etc.				
	(1) 600 mm sq & to angle				
	4.00 m ² vide T m m ² (16)				
	el 6074 = 74/each - 16				16299=00
(11)	600 mm circular				
	2.00 m ² vide T m m ² (16)				
	el 5510 = 24/each - 16				11020=00
					el 2344855=00

Continuation

PTD

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
					Rate 2344.855/-
(ii) 600 x 450 mm metal rods					
4.00 nos. side Tmrl - (17)					
el 5363 = 30/each - 15					21453.00
(13) R.C.C. m. 15 grade					
Boundary by 1st do etc					
16.00 nos. side Tmrl - (17)					
el 675 = 98/each - 15					10816.00
(14) Printing new letter					
& figures - do - etc					
16.00 nos. side Tmrl - (17)					
el 0 = 75/each - 15					12.00

(15) Planting of trees by					
the road side - do - etc					
28.00 nos. side Tmrl - (20)					
el 1203 = 77/each - 15					36506.250
(16) Prov. & laying of hot					
applied thermoplastic					
compound - do - etc					
110.00 m ² side Tmrl - (17)					
el 886 = 46/m ² - 15					97511.00
(17) Prov. & fixing of physical					
information board - do etc					
3.00 nos. side Tmrl - (17)					
el 11075 = 27/each - 15					33922.50
Continuation					2344.855/-

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12 86,899,500
1
25/11/2003
J.E.
Himanshu
25-11-23
A.E.
CPL
24/12/03