

MR - 347050 27/5/22 465 4' 81887 1240112 41607

Schedule XLV-Form No. 134
PWD GN 347050 27/5/22 465 4' 81887 1240112 41607

12405 81 01/41 - 34722 850424217

Agreement. No. 40/MBD/23-24 **DIVISION**

C - Cost 12452624

M - Cost 3620149

T - 16672793

SUB-DIVISION

Date of Start - 1 - 11/9/23 MBND-2944

Date of completion - 10/6/24

MEASUREMENT BOOK

प्रमाणित किया जाता है कि 26 मापी
 कुल में कुल 100 (एक सौ) प्लसममी
 द्वारा संचालित है जो सहायक अभियंता
 और अव (प्रबंधन जोडीर के नगर
 से निर्गत किया जाता है

[Signature]
 11/09/23
 Executive Engineer
 RWD Work Division
 Araria
[Signature]
 11/09/23

Sch. XLV-Form No. 134

DIVISION

SUB-DIVISION

Measurement Book

No. 2944

Name of officer

Date of first entry

Date of last entry

Quantity executed	Payment on the basis of actual measurements	Day	Month	Year
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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.	
Name of work :- Kakan Singan					
Mohini Puro Pul to Azhwa Cholak					
Haya DHAK Tola Tak.					
Name of Agency :- Abhay Construction					
Agreement No - 40/MBD/23-24					
Date of Starting :- 11/09/23					
Date of Completion - 10/06/2024					

Record Entry					
① clearing and grubbing road					
Road - to do - E/A					
	2	6	30	1.00	360 m ²
	2	5	30	1.05	315 m ²
	2	8	30	1.00	480 m ²
	2	3	30	1.05	189 m ²
	2	3	30	1.00	180 m ²
	2	3	30	0.90	162 m ²
					1686 m ²
					16200
					= 0.17 Ha

Continuation

2
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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
<u>2/3</u>					
Construction of granular					
Sub-base by providing					
Well graded Material					
(G.S.M) to do - E/L					
	4	4.20	1.38	0.100	2.31 m ³
	3	5.18	1.42	0.100	2.20 m ³
	2	2.71	1.46	0.100	0.79 m ³
	4	1.38	1.60	0.100	0.88 m ³
	2	1.72	1.44	0.100	0.49 m ³
	3	2.71	1.65	0.100	1.34 m ³
	4	2.88	1.50	0.100	1.72 m ³
	7	2.75	1.55	0.100	2.98 m ³
	4	1.38	1.60	0.100	0.88 m ³

	3	1.75	1.45	0.075	0.73 m ³
	2	2.70	1.75	0.100	0.94 m ³
	2	2.50	1.50	0.100	0.75 m ³
					<u>16.01 m³</u>
<u>3/4</u>					
Providing and Laying					
Spreading and Compa-					
cting Strong aggregates					
W.B.M to do - E/L					
	4	4.30	1.48	0.075	1.90 m ³
	3	5.28	1.52	0.075	1.80 m ³
	2	2.81	1.56	0.075	0.65 m ³
	4	1.48	1.70	0.075	0.76 m ³
	2	2.82	1.54	0.075	0.42 m ³
	3	2.80	1.75	0.075	1.10 m ³

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
	4X	2.98	1.60	$\times 0.075 =$	1.43 m ³
	7X	2.85	1.65	$\times 0.075 =$	2.46 m ³
	4X	1.48	1.70	$\times 0.075 =$	0.75 m ³
	3X	1.80	1.55	$\times 0.075 =$	0.62 m ³
	2X	2.80	1.85	$\times 0.075 =$	0.77 m ³
	2X	2.60	1.60	$\times 0.075 =$	0.62 m ³
	4X	2.50	1.55	$\times 0.075 =$	1.16 m ³
	2X	2.45	1.60	$\times 0.075 =$	0.58 m ³
	3X	2.75	1.65	$\times 0.075 =$	1.02 m ³
					16.03 m ³

4/8

Providing and laying spreading
and compacting base aggregates
(1.8m x 1.6m x 0.075m)

4X	4.80	2.98	$\times 0.075 =$	2.85 m ³
3X	5.48	1.72	$\times 0.075 =$	2.12 m ³
2X	3.01	1.76	$\times 0.075 =$	0.79 m ³
4X	1.68	1.90	$\times 0.075 =$	0.95 m ³
2X	2.02	1.74	$\times 0.075 =$	0.52 m ³
3X	3.00	1.75	$\times 0.075 =$	1.31 m ³
4X	3.18	1.80	$\times 0.075 =$	1.71 m ³
7X	3.05	1.85	$\times 0.075 =$	2.91 m ³
4X	1.68	1.90	$\times 0.075 =$	0.95 m ³
3X	2.00	1.75	$\times 0.075 =$	0.78 m ³
2X	3.00	2.05	$\times 0.075 =$	0.92 m ³
2X	2.80	1.80	$\times 0.075 =$	0.75 m ³
4X	2.70	1.75	$\times 0.075 =$	1.41 m ³
2X	2.65	1.80	$\times 0.075 =$	0.71 m ³

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
	8X	2.95	1.85	10.075	2.46 m ³ 4.22 m³
					<u>19.95 m³</u>
					21.19 m ³
5/6 Providing and applying					
Primer					
Tack coat with bitumen					
emulsion using -					
to do. - - - - -				Ek	
	4 X	4.80	X	2.98	= 38.01 m ²
	3 X	5.48	X	1.72	= 28.27 m ²
	2 X	3.01	X	1.76	= 10.57 m ²
	4 X	1.68	X	1.90	= 12.76 m ²
	2 X	2.02	X	1.79	= 7.02 m ²
	3 X	3.00	X	1.95	= 17.55 m ²
	4 X	3.18	X	1.80	= 22.89 m ²

	7 X	3.05	X	1.85	= 39.97 m ²
	4 X	1.68	X	1.90	= 12.76 m ²
	3 X	2.60	X	1.75	= 10.50 m ²
	2 X	3.00	X	2.05	= 12.30 m ²
	2 X	2.80	X	1.80	= 10.08 m ²
	4 X	2.70	X	1.75	= 18.9 m ²
	2 X	2.65	X	1.80	= 9.54 m ²
	8 X	2.95	X	1.85	= 32.74 16.37 m²
					<u>267.03 m²</u>
					283.40 m ²
6/ Providing and applying					
Tack coat with bitumen					
emulsion - to do. - - - - -				Ek	
Quantity same as					283.40
				Item No 8	= 267.03 m ²

Continuation

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
7/ Providing, laying and Rolling of close-graded Prime Surface Material of 20mm thickness - -					
to do - E/L					
Quantity same as Item No. - 283.40					
			(5)		267.03 m²
8/ Providing and applying tack coat with Bitumen emulsion (R-1) - -					
to do - E/L					
$1 \times 30.00 \times \frac{8.65 + 3.80}{2} = 186.75 \text{ m}^2$					
$4.30 \times \frac{4.60 + 2.40}{2} = 15.05 \text{ m}^2$					
$4 \times 31 \times 3.75 = 450 \text{ m}^2$					
$1 \times 30 \times 3.75 = 11.25 \text{ m}^2$					
$1 \times 9.00 \times \frac{3.90 + 9.60 + 3.50}{3} = 36 \text{ m}^2$					
$4 \times 30 \times \frac{3.50 + 3.45 + 3.65 + 3.90}{4} = 435.00 \text{ m}^2$					
$1 \times 4.5 \times \frac{6.00 + 3.90}{2} = 21.15 \text{ m}^2$					
$13 \times 30 \times 3.75 = 1496.90 \text{ m}^2$					
$1 \times 20 \times 3.75 = 75 \text{ m}^2$					
$1 \times 20 \times \frac{4.45 + 4.30 + 3.90}{3} = 89.33 \text{ m}^2$					
$2 \times 30 \times 3.75 = 225 \text{ m}^2$					
$1 \times 10 \times 3.75 = 37.50 \text{ m}^2$					

Continuation

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
	1 X	20 X	$\frac{9.20 + 9.95 + 3.75}{3}$		
					= 81.00 m ²
	1 X	30 X	3.75		112.50
					3179.93 m ²
9/ Providing and laying					
Remedial bituminous					
Concrete - to do 4/L					
	1 X	30.00 X	$\frac{8.65 + 3.80}{2}$		
				X 0.025 =	4.66 m ²
4 X 30					
	4.30 X		$\frac{4.60 + 2.90}{2}$	X 0.025 =	0.38 m ²
	4 X 30 X	3.75 X		0.025 =	11.25 m ²
	1 X 3 X	3.75 X		0.025 =	0.28 m ²

	1 X	9.00 X	$\frac{3.70 + 4.60 + 3.50}{3}$		
				X 0.025 =	0.98 m ²
	4 X	30 X	$\frac{3.50 + 3.45 + 3.65 + 3.70}{4}$		
				X 0.025 =	10.87 m ²
	1 X	4.5 X	$\frac{6.00 + 3.90}{2}$		
				X 0.025 =	0.53 m ²
	13 X	30 X	3.75 X	0.025 =	36.17 m ²
	1 X	20 X	3.75 X	0.025 =	1.87 m ²
			$\frac{4.45 + 4.20 + 3.90}{3}$		
	1 X	20 X			
				X 0.025 =	2.10 m ²
	2 X	30 X	3.75 X	0.025 =	5.62 m ²
	1 X	10 X	3.75 X	0.025 =	0.93 m ²

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
1 X 20 X		$\frac{1.20+1.25+3.70}{2}$		X 0.025	2.02 m ³
1 X 30 X		3.75		0.025	2.81 m ³
					80.39 m ³
10/ Construction of subgrade and canten shoulder with approved Material - 100% 8/12					
2 X 6 X 30.00 X		$\frac{1.15+1.11}{2}$		X 0.300	121.50 m ³
2 X 5 X 30.00 X		$\frac{1.01+1.20}{2}$		X 0.300	99.45 m ³
2 X 8 X 30.00 X		$\frac{1.15+1.10}{2}$		X 0.300	162.00 m ³
2 X 3 X 30.00 X		$\frac{1.01+0.99}{2}$		X 0.300	59.00 m ³
2 X 3 X 30.00 X		$\frac{1.15+1.10}{2}$		X 0.300	60.75 m ³

2 X 3 X 30.00 X		$\frac{1.01+1.20}{2}$		X 0.300	59.67 m ³
					557.37 m ³
11/ Km Stone - 100% 8/12					
				Quantity =	2 Nos
12/ 200mm Stone - - -					
				Quantity =	4 Nos
13/ Providing and fixing of auto reflectorised 600mm equilateral triangle - - -					
					1.00 Nos

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
<u>14</u>	600 mm	Circular	Qty =		1 Nos.
<u>15</u>	600 mm X 450 mm	rectangular			
	to do		Qty =		2 Nos.
<u>16</u>	Planting of tree by				
	road side - to do.		Qty =		45 Nos.
<u>17</u>	half Brick circular				
	to do		Qty =		45 Nos.

<u>18</u>	Providing and laying of Hot applied - to do. E/L				
	AT Edge For B.T				
	Portion $\Rightarrow$				
	2 X 840 X 0.100 =				168m ²
<u>19</u>	Providing and fixing "Logo Board"				
	Qty =				3.00 Nos
<u>20</u>	Maintenance Board				
	Qty =				1.00 Nos

Continuation

Shanmugam
10/04/24
J.E

Prasanna
11/4/24
M2

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[illegible]

Scanned with CamScanner

Abstract cost

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Name of work:- Kakan Singari					
Mohini PWD Rd to Arhua					
Chotuk Haya DHAR Teh Talu					
Name of Agency:- Abhay construction					
Agreement No- 40/MBD/23-24					
Date of starting:- 11/07/2023					
Date of completion:- 10/08/2024					

1/4 Clearing and grubbing
road - to do - E/L

Qty vide TMB Pg No (1)

0.17 Hac @ 72639.95/Hac = 12348.00

2/3 Construction of granular

Sub-base - to do - E/L

Qty vide TMB Pg No (2)

16.01 m³ @ 3377.58/m³ = 54075.00

3/4 Providing and laying

Spreading and compacting

- - - to do - - E/L

Qty vide TMB Pg No (3)

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
	16.03 ^{ms}	6520.65/m ³			106286.00
9/ Providing, laying spreading and compacting Stone/Granite					
— to do — E/L					
Qty vide TMB Pg No-④					
21.19 ^{ms}	1995m ³	6415.36/m ³			135941.00
4/6 Providing and applying Primer coat with —					
— to do —					
Qty vide TMB Pg No-④					
283.40 ^{ms}	267.03m ²	61.23/m ²			17352.00
6/7 Providing and applying tack coat — to do —					
Completed					
Qty vide TMB Pg No-④					
283.40 ^{ms}	267.03m ²	20.99/m ²			5605.00
⑦ Providing, laying and Rolling of close graded Prime Surface Material					
— to do — Completed					
Qty vide TMB Pg No-⑤					
283.40 ^{ms}	267.03m ²	304.00/m ²			81177.00

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
8/	Providing and applying				
	tack coat with Bitumens				
	to do completed				
	Qty vide TMB Pg No (6)				
	3179.93 m ² @ 17.83/m ² = 56698.00				
9/	Providing and laying				
	Semi-dense bituminous				
	to do E/L				
	Qty vide TMB Pg No (7)				
	80.89 m ³ @ 15234.34/m ³ = 1224688.00				
10	KM Stone to do Comp				
	Qty vide TMB Pg No (7)				
	2 Nos @ 3257.09/Nos = 6514.00				
11/13	200m Stone to do				
	Completed				
	Qty vide TMB Pg No (7)				
	4.00 Nos @ 875.55/Nos = 3502.00				
12/	Providing and fixing				
	of retro-reflective				
	600mm equilateral &				
	triangle to do E/L				
	Qty vide TMB Pg No (7)				

Continuation

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
14/	1.00 Nos @	1591.920			1591.00
	600mm Circular	-	-		
	to do - Completed				
	Qty vide TMB Pg No. (3)				
	1.00 Nos @	1460.69			1460.00
15/	600mm x 450mm rectangular				
	to do - Completed				
	Qty vide TMB Pg No. (3)				
	2 Nos @	4316.91			8634.00
16/	Planting of Tree by				
	road side to do G/L				
	Qty vide TMB Pg No. (3)				
	45 Nos @	1186.56			53395.00
17/	Half Brick circular				
	tree guard - to do G/L				
	Qty vide TMB Pg No. (3)				
	45 Nos @	1995.77			89809.00
18/	Providing and laying				
	of Hot applied tado				
	Completed				
	AT edge for B.T Portion				
	Qty vide TMB Pg No. (3)				
	168 m ² @	626.24			105211.00

Continuation

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Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
19/ Providing and fixing Logo Board - to do e/l Qty vide TMB Pg No. (8) 3 Nos @ 13149.14/Nos = 39447.00					
20/ Maintenance Board - to do e/l Qty vide TMB Pg No. (8) 1 Nos @ 13149.14/Nos = 13149.00					
					1885889.00
					2028152.00
Add G.S.T @ 18% (+)					365067.00
Add Labour @ 12% (+)					20281.00
Add Seigniorage Fee					7876.00
					2421376.00
21/ Construction of subgrade and earthen shoulders with approved material --- do --- do E/L Qty vide TMB Pg No. (7) 567.37 m ³ @ 250.85 = 139816.00 = 2167968.00					
Add G.S.T @ 18% (+)					390234.00
Add Labour @ 12% (+)					21679.00
Add Seigniorage Fee (+)					7876.00
					2587757.00

Continuation

Continuation

BTC FORM - 35

[See Rule 260]

Running Account Bill 'A'

(For Contractors : This form provides for advance payment as well as payments for measured work)

Major Head	Treasury Code
Sub Major Head	DDO Code
Minor Head	Bank Code
Sub Head	Bill Code

Cash Book Voucher no. —

Name of Contractor — *Abhay Construction*

Name of work — *Kakan Singh moli PWD Pul to Athna Chowk*

Serial no. of the Bill —

No. and date of his previous bill for this work —

Reference to Agreement — *40/MB.D/23-24* of20.....

Date of written order to commence work —

Date of actual completion of work —

I—Account of work executed.

Advance Payments for work not yet Measured			Items of work (grouped under "sub-heads" and "sub-works" of estimates).	Unit	Rate	Quantity executed up to date as per measurement book.	Payment on the basis of actual measurements				Remarks (with reasons for delay in adjusting payments shown in column 1)
Total as per previous bill	Since previous bill.	Total up to date					Up to date	Since previous bill.			
1	2	3	4	5	6	7	8	9	10		
Rs.	Rs.	Rs.			Rs.	P	Rs.	P	Rs.	P	
1/			clearing and grubbing road	Hee	72639.95		01.17		12348.50		
2/3			Construction of granular	m ³	3377.50		16.01		54075.00		
3/4			Providing and laying spreading	m ³	6520.65		16.03		106286.00		
4/			Providing laying spreading and	m ³	6415.26		21.19		135941.00		
5/6			Providing and applying Primer Co	m ²	61.23		283.40		17352.00		
6/7			Providing and applying fuel coat	m ²	20.99		283.40		5948.00		
7/			Providing laying and rolling	m ²	304.00		283.40		86154.00		

* Where there is an entry in column 9 on the basis of actual measurement, the whole of the amount previously paid without detailed measurement should be adjusted by minus entry in column 2 equivalent to the amount shown in column 1, so that "Total up to date" in column 3 may become 'Nil'.

** When there are two or more entries in column 9 relating to each sub-head of estimate they should, in the case of work the accounts of which are kept by sub-head, be totaled and total recorded in column 10 for posting in the works abstract.

Advance Payments for work not yet Measured			Items of work (grouped under "sub-heads" and "sub-works" of estimates).	Unit	Rate	Quantity executed up to date as per measurement book.	Payment on the basis of actual measurements		Remarks (with reasons for delay in adjusting payments shown in column 1)
Total as per previous bill	Since* previous bill.	Total up to date					Up to date	Since** previous bill.	
1	2	3	4	5	6	7	8	9	10
Rs.	Rs.	Rs.			Rs.	P	Rs.	P	
							216798. ^w		
							1390234. ^w		
							21679. ^w		
							7876. ^w		
							258775.^w		
							258775.^w		
							232890. ^w		
(D)	(B)		Total value of work done to date (A)						
Figure (D) in words - Rupees			Deduct value of work shown on previous bill						
			Net value of work since previous bill (F)						
			Figure (F) in words - Rupees						

II—Certificate and Signatures

1. The measurements on which are based the entries in columns 4 to 9 of Account I were made by Effat Naseem and are recorded at page 01/15 of Measurement Book no. 2944
2. *Certified that in addition to and quite apart from the quantities of work actually executed as shown in column 7 of Account 1, some work has actually been done in connection with several items, and the value of such works is, in no case, less than the advance payments as per column 3 of Account I, made or proposed to be made for the convenience of the contractor in anticipation of and subject to the results of detailed measurement, which will be made as soon as possible.

Dated signature of Contractor

Dated Signature of Officer preparing the bill

Rank 32nd
 Date 2/11/24

****Dated Signature of Officer authorising payment**

Rank

* This certificate must be signed by the Sub-divisional or Divisional Officer.
Signature is necessary only when the officer who prepares the bill is

* This certificate must be signed by the Sub-divisional or District Officer.
 ** This signature is necessary only when the officer who prepares the bill is not the officer who authorises the payment.