

अनु. म.र.३०५४ अर्थात् अनु. १/८६३.० अर्थात्
Schedule XLY-Form No. 134
अनु. १३१३-२१८५ / Package No. MR-N/2019-20
Balsand/05

(Agreement No. 23 MBD/2021-22)
DIVISION

Executive Engineer

R. W. D. Works Division

Balsand

SUB-DIVISION

475

MEASUREMENT BOOK

Smt. Swati Devi.

Block-Balsand

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 measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
N/w -	Maintene	Dr	road from		
	D what	to	Jaingar tale		
	under MR -	3054			
Receipt No -	MR -	19-20	Belsand/05		
Agency -	Smt	Sunita Devi			
Agreement No -	23	MBD	/2021-22		
Date of start.	13.	9.21			
Date of end (agmt)	12.	6.22			

			leave done	
dt -			28/4/23	
①	P/V and fixing Logo	Dr		
	Maintene board -			2 NO
②	clearing and grubbing	Dr		
	do all complete job			
	$2 \times 20 \times 30 \times 1.0 =$			$1200.0 m^2$
	$2 \times 20 \times 30 \times 1.2 =$			$1440.0 m^2$
	$2 \times 10 \times 30 \times 1.0 =$			$600.0 m^2$
	$2 \times 15 \times 30 \times 0.80 =$			$720.0 m^2$
	$2 \times 10 \times 30 \times 1.0 =$			$600.0 m^2$
	$2 \times 20 \times 30 \times 1.20 =$			$1440.0 m^2$
	$2 \times 15 \times 30 \times 0.80 =$			$720.0 m^2$
	$2 \times 12 \times 30 \times 0.90 =$			$648.0 m^2$
				$7368 m^2$

= 0.73 Hec

Continuation

28/4/23
1

28/04/23
A.E.

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
dt.	18	5.23			
① PIV and long co. B.M. g.D.					
do do cell bed int.					
1 x 20.5 x 2.5			x 0.075		= 3.84 m ³
2 x 21.0 x 3.0			x 0.075		= 9.45 m ³
1 x 7.5 x 2.7			x 0.075		= 1.52 m ³
2 x 10.0 x 2.5			x 0.075		= 3.75 m ³
4 x 6.8 x 2.8			x 0.075		= 5.71 m ³
1 x 6.5 x 2.4			x 0.075		= 1.17 m ³
2 x 8.0 x 2.4			x 0.075		= 2.88 m ³
4 x 8.5 x 2.6			x 0.075		= 6.63 m ³
2 x 3.8 x 2.8			x 0.075		= 1.60 m ³
1 x 3.0 x 3.5			x 0.075		= 0.87 m ³
3 x 6.8 x 3.0			x 0.075		= 4.59 m ³
1 x 16.5 x 3.0			x 0.075		= 3.71 m ³
3 x 8.0 x 2.5			x 0.075		= 4.5 m ³
2 x 5.8 x 2.9			x 0.075		= 2.52 m ³
1 x 12.5 x 2.5			x 0.075		= 2.34 m ³
1 x 8.9 x 2.8			x 0.075		= 1.87 m ³
1 x 13.0 x 2.8			x 0.075		= 2.73 m ³
1 x 13.8 x 2.8			x 0.075		= 2.90 m ³
2 x 8.5 x 2.2			x 0.075		= 2.81 m ³
1 x 25.0 x 2.5			x 0.075		= 4.68 m ³
1 x 18.6 x 2.2			x 0.075		= 3.07 m ³
3 x 9.5 x 1.6			x 0.075		= 3.42 m ³
2 x 10.5 x 2.2			x 0.075		= 3.46 m ³
					87.02 m ³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2x6.5 x	1.8 x	0.075			0.98 m ² ✓
1x16.0 x	2.2 x	0.075			2.64 m ² ✓
2x9.5 x	1.6 x	0.075			2.28 m ² ✓
1x12.5 x	2.2 x	0.075			2.06 m ² ✓
2x8.5 x	2.45 x	0.075			3.12 m ² ✓
1x25 x	2.5 x	0.075			4.68 m ² ✓
2x10.9 x	2.4 x	0.075			3.92 m ² ✓
					106.7 m ² ✓
18/5/23 2 18/05/23 A.E.					

dt.

30.5.23

① PIV co. B.M S/m gutter do
do ad by get.

1x21.0 x	3.0 x	0.075			4.72 m ² ✓
2x21.5 x	3.5 x	0.075			11.29 m ² ✓
1x7.8 x	2.9 x	0.075			1.70 m ² ✓
2x10.5 x	2.7 x	0.075			4.25 m ² ✓
4x7.0 x	3.0 x	0.075			6.3 m ² ✓
1x6.8 x	2.6 x	0.075			1.32 m ² ✓
2x8.5 x	2.8 x	0.075			3.57 m ² ✓
4x9.0 x	2.9 x	0.075			7.83 m ² ✓
2x3.9 x	3.0 x	0.075			1.35 m ² ✓
1x30.5 x	3.8 x	0.075			8.69 m ² ✓

56.42 m² ✓

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3 X 7.0 X 3.5 X 0.075 =					5.51 m ²
1 X 17.0 X 3.4 X 0.075 =					4.33 m ²
3 X 8.5 X 2.7 X 0.075 =					5.16 m ²
2 X 6.2 X 3.0 X 0.075 =					2.79 m ²
1 X 12.8 X 2.8 X 0.075 =					2.69 m ²
1 X 9.2 X 3.2 X 0.075 =					2.21 m ²
1 X 13.5 X 3.0 X 0.075 =					3.03 m ²
1 X 14.2 X 3.0 X 0.075 =					3.19 m ²
2 X 9.0 X 2.5 X 0.075 =					3.37 m ²
1 X 25.6 X 2.8 X 0.075 =					5.38 m ²
1 X 18.9 X 2.5 X 0.075 =					3.54 m ²
3 X 10.0 X 1.9 X 0.075 =					4.27 m ²
2 X 11.2 X 2.5 X 0.075 =					4.2 m ²
2 X 6.8 X 2.2 X 0.075 =					2.24 m ²
1 X 16.6 X 2.6 X 0.075 =					3.23 m ²
2 X 9.8 X 1.9 X 0.075 =					2.79 m ²
1 X 12.6 X 2.6 X 0.075 =					2.45 m ²
2 X 8.8 X 2.8 X 0.075 =					3.70 m ²
1 X 26.0 X 2.8 X 0.075 =					5.46 m ²
2 X 11.5 X 2.6 X 0.075 =					4.48 m ²
1 X 19.6 X 2.4 X 0.075 =					3.53 m ²
2 X 12.5 X 2.2 X 0.075 =					4.12 m ²
2 X 11.6 X 2.8 X 0.075 =					4.87 m ²
1 X 25.0 X 2.5 X 0.075 =					4.68 m ²
2 X 12.5 X 2.8 X 0.075 =					5.25 m ²

Continuation

147.89 m²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2x 16.6 x 2.4 x 0.075					5.98 m ²
1x 22.5 x 2.6 x 0.075					4.38 m ²
2x 15.5 x 2.90 x 0.075					6.74 m ²
2x 10.4 x 3.2 x 0.075					4.97 m ²
					<u>169.98 m²</u>

(Signature)
30.5.23

(Signature)
30/05/23
A.E.

Lt. 7.6.23

① Properly measure call
double cell call
Area under abutment

as on W.B.M gr III

$$169.98 \div 0.075 = 2266.4 \text{ m}^2$$

② PIV tower call
double cell
Area as above
2266.4 m²

③ PIV Mm seal surface
double cell
Area as above
2266.4 m²

(Signature)
7.6.23

(Signature)
06/06/23
A.E.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
dt.	11.	6.23			
① PIV tank coat d.b.					
cell	Cell 21				
0-30	30	$14.55 + 3.75$			274.5 m^2
30-990	32	30×3.75			3600.0 m^2
990-1000	10	3.75			37.5 m^2
1000-1025	25	$3.75 + 6.45 + 3.75$			116.25 m^2
1025-2100	35	30×8.75			3937.5 m^2
	1	25×3.75			93.75 m^2
					8059.5 m^2
② PIV 25 mm thick Semi					
dense bituminous Coat					
do do cell 61 m					
area about					
					$8059.5 \times 0.025 = 201.48 \text{ m}^2$
dt.	14.	6.23			
① PIV tank coat d.b.					
cell	cell 21				
2100-3660	52	30×3.75			5850.0 m^2
3660-3670	10	$3.75 + 8.35$			60.5 m^2
total					5910.5 m^2

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
② PIV 825 mm thick Semi dense Bitumens Coated to all at job.					
Area as actual - 5910.5 m ²					
quantity, $5910.5 \times 0.025 = 147.76$					

14/6/23

16/06/23
A.E.

dt - 17.6.23

① PIV Road masonry with
hot applied thermoplastic
Compound to all
at Complete job

$$2 \times 122 \times 30 \times 0.10 = 732.0 \text{ m}^2$$

$$2 \times 10 \times 0.10 = 2.0 \text{ m}^2$$

$$734.0 \text{ m}^2$$

② PIV and fixing km
to 200 m store at
at all out

(i) km store - 5 No

(ii) 200 m store - 14 No

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(3) PIV $\leftarrow$ fine Retro reflection Drafter Sign board do do cell Cell in					
(i) 60 mm regular paper -					4 No
(ii) 60 mm Circle -					2 No
(iii) 60 x 450 mm rect -					2 No
(4) Plantation of trees do do cell Cell in					
					134 No
(5) PIV $\leftarrow$ fine Bandre diller do					128 No
(6) Construction of embankment do do cell Cell in					
$2 \times 10 \times 30 \times 0.90 \times 0.30 = 162.0 m^3$					
$2 \times 10 \times 30 \times 1.0 \times 0.30 = 180.0 m^3$					
$2 \times 20 \times 30 \times 0.80 \times 0.30 = 288.0 m^3$					
$2 \times 20 \times 30 \times 0.80 \times 0.25 = 240.0 m^3$					
$2 \times 15 \times 30 \times 1.0 \times 0.30 = 270.0 m^3$					
$2 \times 4 \times 30 \times 1.2 \times 0.40 = 115.2$					
$2 \times 10 \times 30 \times 0.90 \times 0.30 = 162.0 m^3$					
$2 \times 8 \times 30 \times 0.85 \times 0.30 = 122.4 m^3$					
					1539.6 m ³
 17.6.23 9		 17/06/23 A.E.			

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>ABSTRACT OF COST</u>					
① clearing and grubbing do. do.					
TMA page 1					
0.73 Hec @ 49496.70/Hec					36133~
② Construction of earthen shoulder					
TMA page - 9					
1539.6 m ³ @ 176.75/m ³					272124~
③ PIV to SB with S/M gr II do					
TMA page 2					
120.44 m ³ @ 2204.90/m ³					265558~
④ PIV to A.M S/M gr II do					
TMA page 3-4					
106.7 m ³ linked to					
105.97 m ³ @ 3999.28/m ³					423802~
⑤ PIV to A.M S/M gr IV do					
TMA page 4-6					
169.98 m ³ linked to					
169.31 m ³ @ 3686.75/m ³					624204~
⑥ PIV to main canal do					
TMA page 6					
2266.4 m ² linked to					
2257.47 m ² @ 41.43/m ²					93527~
⑦ PIV to main canal do					
2266.4 m ² TMA page 6					
8059.5 m ² TMA page 7					
5410.5 m ² TMA page 7					
16236.4 m ²					1715348~
linked to Continuation					
16019.97 m ²					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
16019.97 m ² off					
(7) PIV face coal do					
TMS P-6					
2266.4 m ² cut do					
2257.47 m ² at 14.05/m ² off					31217 = 31317
(8) PIV 20mm min Seal off					
Gravel do do cell cell					
TMS P-6					
2266.4 m ² cut do					
2257.47 m ² at 208.66/m ² off					471044
(9) PIV face coal do					
cell cell					
8059.5 m ² TMS P-7					
5910.5 m ² TMS P-7					
13970.0 m ² cut do					
to 13762.5 m ² at 11.78/m ² off					162122
(10) PIV 25mm then S.D. B.C					
do do cell cell					
201.48 m ² TMS P-7					
147.76 m ² TMS P-7					
349.24 m ² cut do					
344.06 m ² at 10456.64/m ² off					3597712
(11) PIV and try KM stand do					
TMS P-8					
12km then 5 No at 2487.60/ +					12438
(12) 200m then 14 No at 663.82/ +					9293

Continuation

~~5999274 =~~
 5999674 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(12) PIV ad Jy Bepu deflct					
Traffic Sign board					
Tms pge - 9					
(i) 600 mm circle height					
4 No @ 3749.65 / $\rightarrow$					14999.2
(ii) 600 mm Circle -					
2 No @ 3849.04 / $\rightarrow$					7698.2
(iii) 600 x 450 mm rectangle					
2 No @ 3719.92 / $\rightarrow$					7440.2
(13) PIV plantation of trees					
Tms pge - 9					
134 No @ 800.36 / $\rightarrow$					107240.2
(14) PIV Road Marking do					
do cell cell do.					
Tms pge 8					
734.0 m ² @ 735.46 / m ² $\rightarrow$					539784.2
(15) PIV & Jy Logo of Bepu					
Project do					
Tms p-1					
2 No @ 9527.70 / $\rightarrow$					19055.2
(16) PIV ad Jy Boundary pillar					
do do cell cell					
Tms pge 9					
128 No @ 520.04 / $\rightarrow$					66565.2

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					6762455 = 2 6762035 = "
Add'd 6-574/6-5		13%	+		879017 = 878113 = 2
					7641100 = 7641576 = 2
Less S. 91% As per agw			-		451589 = 2 451617 = 2
					7189511 = 7189957 = 2
(Q) 18/6/23					
(M) 10/6/23 A.E.					
Machels					
(a) earth -					1539.6 m ³ ② 25.01/m ³ → 53901 = 0
(b) s/metal -					424.61 m ³ ① 8861.37 68.82 m ³ ② 424.21 29194
(c) Screening -					55.9.83 n ³ ③ 424.11
(d) s/chips -					61.42 m ³ 237485 = ④ 494.01 m ³
e) Sand -					30341 = 0
f) Bitumen emuls					
Emuls S-S-1 -					1.919 MT
Emul R-S-1 -					4.406 MT
Bitumin -					43.994 MT
Bitumin available					
I.O.C					
Tax Invoice					
BHSS 20022853		10.5.23	-		22.38 m ³
BHSS 20022852		10.5.23	-		0.939 =
WB SS 29064928		8.6.23	-		21.61 =
Cement 50807					44.929 m ³
Machels 157989 = 0					
Continuation					
4607					
213403 = 0					
S.P.M 115397 = 0					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
M/W -	Maintenance of road				
	from D ghāt to Srīnagar				
	tala under MR-3054				
Pce Hc -	MR-N / 19-20 Beldand-/05				
Agency -	Smt Sumita Devi				
Agreement No-	23 MBD / 2021-22				
Date of start-	13- 9.21				
Date of Comp (agreed) -	12-06-22				
	work done				
date of completion -	13.7.23				

① p/v B/w in graph let

paraphrase was de b.

$$2 \times 6.0 \times 0.40 \times 0.60 = 2.88 \text{ m}$$

for 6 m	17.28 m ³
---------	----------------------

② PIV Const. pleber d. d.

cell	Cel	zel
------	-----	-----

$$27 \times 6.0 \times 1.6 = 19.2 \text{ m}$$

$$4 \times 0.40 \times 0.60 = 0.96$$

$$\underline{20.16 \text{ m}^2}$$

for 6 Mo

$$120.96 \text{ m}^2$$

(3) PIV Party two Carl & Bob

all Col re

Area of circle

$$120.96 \text{ m}^2$$

R.C.C.	247.5x	1.6
--------	--------	-----

4x	0.60	x 0.40
----	------	--------

$$2 \times 2 \times 3.0 \times 10.20 =$$

$$47 \quad 0.6070.40$$

Continuation

161.28 m²

17.04.23
A.E.

13.7.23
18

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>ABSTRACT OF COST</u>					
1. <u>clear and grully bed</u>					
TMA p-10					
0.73 Hec @ 49486.70/Hec R					36133 =
2. <u>Construction of earthen shoulder</u>					
TMA p-10					
1539.6 m ³ at 176.75/m ³ +					272124 =
3. <u>PIV 6.00 m width 8/m gully bed</u>					
TMA p-10					
120.44 m ³ at 2204.90/m ³ +					265518 =
4. <u>PIV 6.00 m width 8/m gully bed</u>					
TMA p-10					
105.97 m ³ at 3999.26/m ³ +					423802 =
5. <u>PIV 6.00 m width 8/m gully bed</u>					
TMA p-10					
169.31 m ³ at 3686.75/m ³ +					624204 =
6. <u>PIV prime coat bed</u>					
TMA p-10					
2257.47 m ² at 41.43/m ² +					93527 =
7. <u>PIV tack coat bed</u>					
TMA p-11					
2257.47 m ² at 14.05/m ² -					31717 =
8. <u>PIV 20 mm mass. bed</u>					
TMA p-11					
2257.47 m ² at 208.66/m ²					471044 =

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
9. PIV to are cool are					
TMA P-11					
13762.5 m ² of 11.78/m ² of					162122
10. PIV 25 mm thick S.P.B.C					
done					
TMA P-11					
344.06 m ³ of 10456.64/m ³ of					3597712
11. PIV & fixing KM Stone					
TMA P-11					
(i) km stone - 5 No					
of 2487.60/					12438
(ii) 200 mm stone					
14 No of 663.82/					9273
(12) PIV and fixing Reto					
15+16+17 Retective Pgr bond					
TMA P-12					
(i) 600 mm Benguler					
4 No of 3749.69/					14999
(ii) 600 mm Circular					
2 No of 3849.04/					7698
(iii) 600 x 450 mm Rectyck					
2 No of 3717.92/					7440
13) PIV Plantation of trees					
20 TMA P-12					
134 No of 800.30/					107240
14) PIV Boundary Pillar					
18 TMA P-12					
128 No of 520.04/					66565

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15) PIV Road mainly done 21	Tmp p - 12				
734.0m ² at 735.40/-					539784.20
(16) PIV and fring Logo de Mont-Bred. 22	Tmp p - 12				
2 No at 9527.70					19055.20
(17) PIV B/wir cul 1.4 m dia 23	Tmp p - 15				
17.28m ² at 5266.93/m ²					91013.20
(18) PIV Cement plaster in ch (11) 24	Tmp p - 15				
120.96m ² at 196.76/m ²					23800.00
(19) PIV partly two cnd 25	Tmp p - 15				
161.28m ² at 95.63/m ²					15423.00
					6892691.20
Addd GST + L.Cur 13% +					896050.20
					7788741.20
Less 5.91% As per agreement (-)					460315.20
					7328426.20
Less Preliminary Payment - (-)					7189957.20
					138469.00
					15.7.23
					26
Materials:					
(a) Brick - 8640 No					45274.00
					45 = 0
G.S. 24 / No -					822.20
(b) Sndr. - 7.04 m					868.20
C @ 116.85/m ²					917.20
Continuation					917.20
					1785.20
					179.5F

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
We Certified that work has been completed as per specification and Site Condition on 13.7.23. Material at door 14.7.23.					
 15.7.23 78				 14.07.23 A.E.	
H.M. 42109					
Hydrant dot					
V8 No - 02/dt					

Memo at end of Final bill					
S.D @ 8%					11078 = 2
I.T @ 12%					1385 = 2
CHST @ 12%					1385 = 2
SLST @ 12%					1385 = 2
LC @ 12%					1385 = 2
ROY					917 = 2
S.F @ 10%					4701 = 2 179 = 2
TIME EXT @ 10%					13847 = 2
138469					
Total Deduction					31561 = 2 36083 = 2
by CFMS					106908 = 2 102 386 = 2
Total bill Amt					138469 = 2
Passed for Rs - 1,38,469 = 2 (over & above that)					
Eight thousand four hundred and sixty nine only.					

(Signature)
22.07.2023

Continuation
Executive Engineer
R.W.D. Works Division
Belsand

2307203749

25/07/2023

Belsand

(Signature)
25/7/23