

~~MM~~ BAR D. / 18 SBD 2021-22

Dharambani to Kshuhtigat via Dharmad  
Angada chauray 8.00 km (Eng comb. work)

Total const. cost → 38225800 7.10 - 102898

# Measurement Book

Schedule XLV-Form No. 134

Rate - 0.05%  
below

ISTen ALCBILL → Rs. 16121679 vide P.N. - 13

IInd OH ALCBILL → Rs. 5974997 vide P.N. - 32

3 days

IIIrd OH ALCBILL → Rs. 34,41996 vide P.N. - 50

DIVISION

Baise

SUB-DIVISION

1445

Agency →

Prabhakar Const. Company.

This is to certify that this MB contains 100 computerized printed pages that has been issued to Asst. Eng RWD (W) Subdman Baisi.

  
02/07/21

02-07-21  
Executive Engineer  
Rural Works Department  
Works Division Baisi

Sch, XLV-Form No. 134

Baysi DIVISION

Baysa SUB-DIVISION

## Measurement Book

No. 1445

Name of Officer \_\_\_\_\_

Date of first entry \_\_\_\_\_

Date of last entry \_\_\_\_\_

1st RA/c Bill.

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:- Dharambari to Khuti Ghat via Dhulmal Angadh Chainage 8.00 KM (Bridge Construction work)					
Name of Agency:- Prabhakar Construction Company					
Prop. Surbhi Kumari Prabhakar at new Capital Rajohar Ahijapur myzrahpur (Bihar)					
Agreement No - 18 SBA/2021-22					
Agreement Value:-					
Const. Cost Rs. 38295,620=00					
Maint. Cost Rs. 354604=00					
Total Cost Rs. 38580,294=00					
Date of Agreement:- 01.07.2021					
Date of Completion:- 01.07.2021					
<u>Record measurement.</u>					
① P/v and Fixing 'Logo' of project Informatory Sign board with logo.					
				1.0 N.	

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>5th RA/c. Bed</u>					
Name of work: Dharambore to Khuti Ghat via Dhyamal Angash. Chainage:- 8.00 K.M. (Bridge Construction work.)					
Name of Agency: Prabhakar Construction Company. Prop. Surbhi Kumari Prabhakar, A-2 New Capital, Raghopur. Ahilyapur, Muzaffarpur (Bihar)					
Agreement No.:- 18880/2011-12					
Agreement Value:-					
Const. Cost Rs. 28,215,620.00					
Maint. Cost Rs. 254,600.00					
Total Cost Rs. 28,580,224.00					
Date of Agreement:- 01.07.2011					
Date of Completion:- 01.07.2011					
<u>Record of measurement:</u>					
Barth Work chart M. L. R. C. C. Bridge					
S.N.	Chainage	Distance	Fill Area	Fill Area	Fill Area
			M <sup>2</sup>	M <sup>2</sup>	Qty.
1	0.0	0.0	2.892	0.0	0.00
2	15.0	15.0	11.684	7.188	109.320
3	30.0	15.0	28.617	15.151	227.258
4	45.0	15.0	32.216	15.417	281.248
5	60.0	15.0	26.747	11.482	442.213
6	75.0	15.0	44.171	35.459	531.885
7	90.0	15.0	64.564	54.268	815.513

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
S.N. Chainage	Distance	Full Area	Full Area	Full Area	Full Area
8	100.0	10.0	74.967	67.766	697.65
Gap for H.C. Bridge with Approach					
9	161.2	0.0	94.789	84.878	0.000
10	175.0	12.8	72.939	84.264	1164.42
11	190.0	15.0	63.968	68.954	1034.20
12	205.0	15.0	51.98	57.974	869.61
13	220.0	15.0	33.35	42.665	639.92
14	235.0	15.0	18.44	25.895	388.42
15	250.0	15.0	10.074	14.257	213.25
16	261.2	11.2	2.284	6.179	69.20
					7584.70 m <sup>2</sup>

less for W.B.M. Grd-III (BYE) 59.58 m<sup>2</sup>  
 less for G.S.B. (BYE) 170.86 m<sup>2</sup>  
 less for Subgrade (BYE) 629.26 m<sup>2</sup>  
 6725.00 m<sup>2</sup>

① Consists of embankment  
 with material lead  
 up to 1000m.

$$= 6725.00 \text{ m}^2$$

② Construction of  
 Subgrade and earthen  
 shoulders with approved  
 material lead up  
 to 1000m.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
South side.					
Adj.					
100.00	2	7.25 + 8.45		0.3000	235.50m <sup>3</sup>
Adjustment to NBM G.V. - III					
100.00	2	1.175		0.075	19.13m <sup>3</sup>
Adjustment to G.S.B.					
100.00	2	1.500		0.200	60.00m <sup>3</sup>
North side.					
100.00	2	7.25 + 8.45		0.3000	235.50m <sup>3</sup>
Adjustment to NBM G.V. - III					
100.00	2	1.175		0.075	19.13m <sup>3</sup>
Adjustment to G.S.B.					
100.00	2	1.500		0.200	60.00m <sup>3</sup>
1					
629.26m <sup>3</sup>					
1					
③ Const. of Granular.					
Sub-base by providing					
Well graded material					
South side.					
100.00	2	7.07	4.05	0.2000	16.58m <sup>3</sup>
100.00	2	4.05		0.2000	48.60m <sup>3</sup>
100.00	2	4.05		0.2000	40.15m <sup>3</sup>
North side.					
100.00	2	7.07	4.05	0.2000	16.58m <sup>3</sup>
100.00	2	4.05		0.2000	48.60m <sup>3</sup>
100.00	2	4.05		0.2000	40.15m <sup>3</sup>
170.86m <sup>3</sup>					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
④	Fin laying spreading and compacting of WBM Grd. III material				
	South side				
	1	15.0	6.70	$\frac{3.75}{2} \times 0.075$	5.88 m <sup>2</sup>
	2	30.0	3.75	0.075	16.88 m <sup>2</sup>
	1	25.0	3.75	0.075	7.03 m <sup>2</sup>
	North side				
	1	15.0	6.70	$\frac{3.75}{2} \times 0.075$	5.88 m <sup>2</sup>
	2	30.0	3.75	0.075	16.88 m <sup>2</sup>
	1	25.0	3.75	0.075	7.03 m <sup>2</sup>
					1
					1
					59.58 m <sup>2</sup>
					12/08/2022
					J.S
⑤	Fin and applying primer coat with bitumen emulsion				
	South side				
	1	15.0	6.70	$\frac{3.75}{2}$	78.38 m <sup>2</sup>
	2	30.0	3.75		225.00 m <sup>2</sup>
	1	25.0	3.75		93.75 m <sup>2</sup>
	North side				
	1	15.0	6.70	$\frac{3.75}{2}$	78.38 m <sup>2</sup>
	2	30.0	3.75		225.00 m <sup>2</sup>
	1	25.0	3.75		93.75 m <sup>2</sup>
					Continuation
					794.26 m <sup>2</sup>

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑥	P.V. and applying tack coat with bitumen emulsion Same measurement by side Item No. ⑤ $= 794.26 \text{ m}^2$				
⑦	P.V. laying and rolling of close-graded premix surfacing material Same measurement by side Item No. ⑤ $= 794.26 \text{ m}^2$				
⑧	P.V. and laying filter material for do-all Comp. job. 1/2 of South side. $\frac{23.80 + 17.40 + 11.50}{3} \times \frac{6.50 + 8.50 + 8.20}{3}$ $= 20.14 \text{ m}^2$				
⑨	P.V. and laying boulder pitching do-do-all Comp. job. 1/2 of South side. Approx. $45.60 \times 1.50 \times 0.600 = 23.04 \text{ m}^2$				



Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Abstract of Cost 5th RA/C Bd.</u>					
① 49	P/W and Fixing of Informatory sign board, with logo.				
	2.00 m wide TMBP — 62/1				
	@ Rs. 8828 = 39/2 per nos.				
					Rs. 17645200
② 37	Cost of embankment with material obtained from borrow pits.				
	840.0 m <sup>3</sup> wide TMBP — 62/2				
	@ Rs. 190 = 26/2 per m <sup>3</sup>				
					Rs. 15990200
③ 39	P/W and laying reinforced cement concrete pipe.				
	30.0 m wide TMBP — 62/3				
	@ Rs. 3667 = 10/2 per m.				
					Rs. 110013200
④ 38	Cost of Granular Sub-base by providing well graded material.				
	58.50 m <sup>3</sup> wide TMBP — 62/4				
	@ Rs. 3586 = 70/2 per m <sup>3</sup>				
					Rs. 18830200
					Rs. 47586200

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					D.P.R. 47586200
⑤ Dismantling of existing structure like Culvert bridge and other structure					
(i) 54 Rail Post/Boundary pillars 20.0m <sup>3</sup> wide TMBP - 63/5①					
					Chs. 1219210/2 per m <sup>3</sup>
					Rs. 2438200
(ii) Top slab.					
56 36.0m <sup>3</sup> wide TMBP - 63/5②					
					Chs. 1219210/2 per m <sup>3</sup>
					Rs. 43888200
(iii) Prov.					
55 37.50m <sup>3</sup> wide TMBP - 63/5③					
					Chs. 1219210/2 per m <sup>3</sup>
					Rs. 45716200
⑥ Dismantling of existing structure					
(i) Abutment.					
58 20.63m <sup>3</sup> wide TMBP - 63/6①					
					Chs. 246263/2 per m <sup>3</sup>
					Rs. 5088200
(ii) Wing Wall.					
59 15.0m <sup>3</sup> wide TMBP - 64/6②					
					Chs. 246263/2 per m <sup>3</sup>
					Rs. 3699200
					Rs. 598635200

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					R. 598635200
⑦ Earth work excavation for structure do-do-all comp job.					
663.13 m <sup>3</sup> vide TMBP — 64/7					
Ch. 205 = 4 1/2 per m <sup>3</sup>					
					R. 202533200
⑧ P/V and Constructing temporary earth island, do-do-all comp job.					
2104. vide TMBP — 64/8					
Ch. 56141 = 80 1/2 per m <sup>3</sup>					
					R. 49284200
⑨ P/V and Constructing temporary service head do-do-all comp					
49.50 m <sup>3</sup> vide TMBP — 64/9					
Ch. 2670 = 87 1/2 per m <sup>3</sup>					
					R. 181708200
⑩ Hy SD bar reinforcement work on foundation.					
8877 m <sup>2</sup> vide TMBP — 64/10					
Ch. 54230231 per m <sup>2</sup>					
					R. 4814085200
					R. 5909185200

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					D.A. Rs 5909,185200
⑪ 7					P/W steel liner 10mm thick for Curb do-do-all Comp. job.
					7.81 tone vide TMBP - 65/11 @ Rs. 67381258/2 per mt Rs. 526250200
⑫ 3					Board Cast in S24 M35 grade R.C.C pile do- do-all Comp job.
					584.0m vide TMBP - 65/12 @ Rs. 16200237/2 per m Rs. 946101600
⑬ 3					P/W and laying of R.C.C. M15 leveling course.
					25.00 m <sup>2</sup> vide TMBP - 65/13 @ Rs. 6969 = 50/2 per m <sup>3</sup> Rs. 243933200
⑭ 16					M/S D bar Reinfor cement in sub- structure
					30.40 m vide TMBP - 65/14 @ Rs. 54390 = 07/2 per mt Rs. 1653458200
					Rs. 1779384200

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑮ 10 Initial load test on pile test go - go - all Comp. job. 1.0 M. wide TMBP — 66/15 Chs. 150,000 200 / per Nos. Rs. 150,000 200					Rs. 177,938 4 200
⑯ 11 Routine pile load test on pile go - go - all Comp. job. 1.0 M. wide TMBP — 66/16 Chs. 185,000 200 / per Nos. Rs. 185,000 200					
⑰ 12 Horizontal pile load test go - all Comp. job. 1.0 M. wide TMBP — 66/17 Chs. 1,00,000 200 / per Nos. Rs. 1,00,000 200					
⑱ 4 R.C.M-30 grade in pile Cap. go - go - all Comp. job. 385.55 m <sup>2</sup> wide TMBP — 66/18 Chs. 7725 = 62 / per m <sup>2</sup> Rs. 2989468 200 Rs. 81,51,210 200					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.F.R. 21151310200
14 R.C.C. Crade M-30 in substructure do do all Comp. Job. 192.28 m <sup>3</sup> wide TMBP — 67/19 CRS 8011 = 64/4 per m <sup>3</sup>					Rs. 1540478200
15 R.C.C. Crade M-35 in substructure do do all Comp. Job 14.28 m <sup>3</sup> wide TMBP — 67/20 CRS 8194 = 23/2 per m <sup>3</sup>					Rs. 117014200
17 Supplying, fitting and fixing in position true to line and level at PT&B bearing 18.0 m wide TMBP — 67/21 CRS 44279 = 34/2 per No. Rs. 797028200					
18 Supplying fitting and fixing in position. true to line and level elastomeric bearing 197212.50 cc wide TMBP — 67/22 CRS 0.78/2 per cc Rs. 152826200 Rs. 23759656200					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.P.R. Rs. 23759,656.20
29 Supplying, fitting and placing Hysol bar reinforcement in superstructure					
30.83 m wide T.M.B.P. - 68/23					
Chs. 55623 = 99/2 per mt					Rs. 1714888.20
29 h.c.c. grade M-30 in superstructure					
do - do - all comp. job.					
29.69 m <sup>3</sup> wide T.M.B.P. - 68/24					
Chs. 8877 = 69/2 per m <sup>3</sup>					
					Rs. 1861563.20
27 Drainage bouts.					
do - do - all comp.					
24.04 m wide T.M.B.P. - 68/25					
Chs. 660 = 26/2 per nos.					Rs. 15849.20
26 Strip Seal Expen- sion joints do - do - all comp. job.					
22.80 m wide T.M.B.P. - 69/26					
Chs. 10380 = 91/2 per m					Rs. 250875.20
					Rs. 27702831.20

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					D.P.R. 47702831200
27 P.V and Fixing down thick Comp. resilient fibre board.					
33.80 m wide T.M.B.P — 69/27					
@ Rs. 306 = 87/2 per m.					
					Rs 10379200
28 P.V and Fixing in position to m.m.					
thick pre moulded joint filler in expansion joint					
33.80 m wide T.M.B.P — 69/28					
@ Rs. 355 = 16/2 per m.					
					Rs. 12004200
29 R.C.C M-30 grade including reinforce ments in wearing course					
29.14 m <sup>3</sup> wide T.M.B.P — 69/29					
@ Rs 14153 = 50/2 per m <sup>3</sup>					
					Rs. 412433200
30 P.V and laying filter material with granular crushed aggregates.					
88.65 m <sup>2</sup> wide T.M.B.P — 70/30					
@ Rs 3919 = 94/2 per m <sup>2</sup>					
					Rs 383983200
					Rs 846162300

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.P. Rs. 28461623200
31 20					Backfilling behind, abutment and, R/Wall, 90-90-all, Comp. job. 165.41 m <sup>3</sup> wide TMBP — 70/31 Chs. 809 = 299/2 per m <sup>3</sup> Rs. 133153200
32 28					R.C.C. M15 over/ingry grade leveling course below approach slab. 8.87 m <sup>3</sup> wide TMBP — 70/32 Chs. 6419 = 87/2 per m <sup>3</sup> Rs. 56,94420
33 29					R.C.C. M-30 grade approach slab incl- ding Reinforcement 90-90-all Comp. job. 20.53 m <sup>3</sup> wide TMBP — 70/33 Chs. 11576 = 311/2 per m <sup>3</sup> Rs. 237662200
34 26					Const. of R.C.C hauling of M25 grade 90-90-all Comp. job. 117.78 m <sup>3</sup> wide TMBP — 71/34 Chs. 3185 = 63/2 per m. Rs. 275204200 Rs. 292645862

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.F. Rs. 2926458620
(35) 19					<p>DN Weepholes in abutments and R/wall of 0-0-0-0.</p> <p>All Comp. job.</p> <p>40.00m<sup>3</sup> vide TMAP — 71/35</p> <p>@ Rs. 122 = 95/2 per Met.</p> <p>Rs. 491820</p>
(36) 49					<p>DN and Fixing of Informatory Sign.</p>
(36) 72					<p>Const. of embankment with material. Lead up to 1000m.</p>
					<p>6725.00m<sup>3</sup> vide TMAP — 75/1</p> <p>@ Rs. 190 = 26/2 per m<sup>3</sup></p> <p>Rs. 1280171200</p>
(37) 43					<p>Construction of Subgrade and earth shoulders with approved material. Lead up to 1000m.</p> <p>629.26m<sup>3</sup> vide TMAP — 76/2</p> <p>629.25m<sup>3</sup> concrete</p> <p>@ Rs. 192 = 04/2 per m<sup>3</sup></p> <p>Rs. 120841200</p>
					Rs. 30670516200

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.F. Rs. 20.6 705/6200
(38) 44	Const. of Granular Sub-base by providing Well graded material				
					170.86 m <sup>3</sup> vide T.M.B.P. — 76/3
					165.89 m <sup>3</sup> Limit
					@ Rs. 3586 = 70/2 per m <sup>3</sup>
					Rs. 59,2666200
(39) 45	P.V. Laying Spreading and Compacting of W.B.M. Grd. III material				
					59.58 m <sup>3</sup> vide T.M.B.P. — 77/4
					57.28 m <sup>3</sup> Limit
					@ Rs. 4321 = 29/2 per m <sup>3</sup>
					Rs. 2,47,956200
(40) 46	P.V. and applying Primer Coat with bitumen emulsion.				
					794.26 m <sup>2</sup> vide T.M.B.P. — 77/5
					765.00 m <sup>2</sup> Limit
					@ Rs. 42275/2 per m <sup>2</sup>
					Rs. 32,704200
(41) 47	P.V. and applying Tack Coat with bitumen emulsion				
					794.26 m <sup>2</sup> vide T.M.B.P. — 78/6
					765.00 m <sup>2</sup> Limit
					@ Rs. 14274/2 per m <sup>2</sup>
					Rs. 11,276200

Rs. 31,55,118200

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.P.Rs. 2,55,518.00
(42) 48					<p>Plv laying and rolling &amp; close grade &amp; premix surfacing material.</p> <p>794.26 m<sup>2</sup> wide TRBP - 78/7 765.00 m<sup>2</sup> cement.</p> <p>Chs. 248/2 per m<sup>2</sup></p> <p>Rs. 16,25,472.00</p>
(43) 35					<p>Plv and laying filter material do-do - all comp. job.</p>
					<p>20.14 m<sup>3</sup> wide TRBP - 78/8 20.14 m<sup>3</sup> wide TRBP - 78/10 40.28 m<sup>3</sup></p> <p>Chs. 4259 2/3 per m<sup>3</sup></p> <p>Rs. 1,71,558.00</p>
(44) 34					<p>Plv and laying boulder pitching on slopes. do-do. all comp. job.</p> <p>63.32 m<sup>3</sup> wide TRBP - 79/9 63.32 m<sup>3</sup> wide TRBP - 79/11 126.64 m<sup>3</sup></p> <p>Chs. 3833 = 25/2 per m<sup>3</sup></p> <p>Rs. 48,54,422.00</p> <p>Rs. 3,23,74,666.00</p>

