

Schedule XLV-Form No. 134

Katauli - Raghunathpur Patli to Rampur under MMGSY

Executive Engineer R. W. D. Leons DIVISION -

Telamabadd

A. E. R. W. D. Work. SUB-DIVISION -

HULASGAJI

MEASUREMENT BOOK

NO-2697

Executive Engineer R.W.D. DIVISION -
Jehanabad

A.E. R.W.D. work - SUB-DIVISION -
HULAS Ganj

Measurement Book

No. 2697

Name of Officer _____

Date of first entry _____

Date of last entry _____

प्रमाणित किया जाता है कि इस मापी पुस्तक में
मशीन मंडीर कुल 100 (एक सौ) पृष्ठ हैं, जिसे
श्री सुखदेव प्रसाद सहायक अभियंता द्वारा
डॉ निर्माण किया जाता है

Schedule PLV-Form No. 134

REFERENCE TO P. W. A. CODE, CHPI, VII
Para 30 & 31

कार्यपालक अभियन्ता

1. In recording detailed measurements the following general instructions should be carefully observed:-
 - (a) Subject to such subsidiary orders as may be laid down by the Local Government detailed measurements should be recorded only by Executive or Assistant Engineers or by Executive subordinates in-charges of work to whom measurement books have been supplied by the Executive Engineer for the purpose.
 - (b) All measurements should be bear taken down in a measurement book Form 23, issued for the purpose, no where else.
 - (c) Each set of measurement should commence with entries stating—
 - (i) In the case of bills for work done :-
 - (a) Full name of work as given in estimate
 - (b) Situation of work
 - (c) Name of contractor.
 - (d) Number and date of his agreement and
 - (e) Date of measurement
 - (ii) In case of bills for supply for materials :-
 - (a) Name of Supplier
 - (b) Number and date of his agreement for order,
 - (c) Purpose of supply in one of the following forms applicable of the case—
 - (i) "Stock" (for all supply for stock purpose)
 - (ii) "Purchase" for direct issue to the work (full name of work as given in estimate may be mentioned)
 - (ii) "Purchase" for (full name of work as given in estimate) issued to contractor

- (d) Date of measurements and should end with the Paid initials of the officer marking the measurement, see also paragraph 25)

A suitable abstract should than be prepared which / should collect in the case of measurement for work done, the total quantities of each distinct item of work relating to each sanctioned sub-head.

- (e) As all payments for work supplies are based on the quantities recorded in the measurement books it is incumbent upon the person taking the measurement to record the quantities clearly and accurately. If the measurements are taken in connection with a running contract account on which work has been previously measured he is further responsible (1) that reference to the last set of measurements is recorded and (2) that if the entire job or contract has been completed the fact is recorded prominently just above his initials.
- (f) Entries should be recorded continuously in the measurement book. No blank pages may be left and no page be turned. Any page left inadvertently must be cancelled by diagonal lines. The cancellation being attested. See also paragraph 335 of the Public Work Department Code.
- (g) No entry may be erased, if a mistake is made it should be corrected (and dated) by the responsible officer in the manner prescribed in paragraph 335 of the Public Work Department Code. When any measurements are cancelled, the cancellation, must be supported by dated initials of the officer ordering the cancellation or reference to his orders installed by the officer who made the measurements in either case the reason for cancellation should be recorded.

Each measurement book should be provided with

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.	
Name of work: → Construction of Road from, Kachali - Baglora Khur path to Rampur under Kachali District, Jalandhar (Punjab).					
Name of contractor: → Sri Abhishek Kumar Bhatnagar, Plot No. 404, Panneshwar, Akashdeep Phase-1, Bhoat Noh Road Patna,					
Agreement No: → 38 / SBD/20-21.					

Date of start as per agg →	09/01/21.
Date of completion →	
Actual Date of start →	09/01/21.
Actual Date of completion →	Work is in progress
Date of Entry →	16/01/21.

Item No				
(1/1)	Providing and fixing of working bench - mark - pillars -			
	do do			
	1 x 1			1 nos.

Item No				
(2/2)	Providing & fixing of working bench mark - pillars of No. per			
	1 x 1			No. of reference pillars.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
— do —	do	—	—	—	—
	1 Nos	—	—	—	1 Nos
Item No (3/3) Cleaning and grading					
Road Land - do - do					
$2 \times 11 \times 30.00 \times 0.625$					$412.50 m^2$
$2 \times 1 \times 20.00 \times 0.625$					$25.00 m^2$
				Total =	$437.50 m^2$
					$\approx 0.04 Hec$
Item No (4/22) providing and fixing of					
red - reflected caution					
Item No (5/6) Construction of embankment					
with material obtained from					
barrow pits with a lift up to					
1.5m - do - do					
$2 \times 20.00 \times \frac{(6.50 + 7.50)}{2} \times 1.00$					$280.00 m^3$
and sides					
$2 \times 10 \times 30.00 \times 0.625 \times 0.300$					$112.50 m^3$
at corner of Haul:					
$1 \times 17.00 \times 2.00 \times 1.50$					$51.00 m^3$
				Total =	$443.50 m^3$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item No	Earthwork in excavation				
(6/23)	for structures as per drawing				
—	do	do	—	—	
for H.P.C	1	—	2 nos.	—	
—	—	—	—	—	
Head wall					
2x2x3.900x1.150x1.500					26.91m ³
Below the pipe					—
2x2x3.350x1.130x0.365					4.41m ³
					—
					Total = 31.32m ³
Item No	providing M-15-P.C.C				
(7/24)	as landing course in foundation				
—	do	do	—	—	
Head wall					
2x2x3.940x1.150x0.150					2.69m ³
Below the pipe					—
2x5.30x1.130x0.250					2.99m ³
					—
					Total = 5.68m ³
Q					
16/01/21	16.01.21				
J.C					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
F9 Date of entry 20/01/21					
Item no 2001A being R.C.C. No-3					
(1/25) for culverts on 1st H. class					
bedding of P.C.C. M-10 material					
— do — do —					
2 x 3 x 2.50					15.00 M ³
Item no					
providing M-15 D.C.C.					
(2/24) (1:2.5:2.5) as levelling course					
— do — do —					
providing					
2 x 2 x 3.900 x 0.700 x 2.180					23.81 m ³
PP. 2 x 2 x 3.900 x 0.400 x 1.200					3.75 m ³
				2	7.45 m ³
less for bit					
2 x 2 x 0.785 x 0.830 x 0.930					1.15 m ³
					Total 28.41 m ³
Item no Cable duct across the					
(2/88) Road (For irrigation					
purpose) — do — do —					
2 x 2 x 2.50					10.00 M ³
Item no					
Granular sub-base with					
(3/8) coarse graded material					
— do — do —					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Carton portion</u>					
$2 \times 20.00 \times 3.750 \times 0.100$					$15.00 m^3$
<u>In profile correction</u>					—
$1 \times 10.00 \times 2.00 \times 0.100$					$2.00 m^3$
<u>C.D.P.T</u> $2 \times 3.75 \times 1.50 \times 0.100$					$1.12 m^3$
					<u>Total =</u> $18.12 m^3$
There is no excavation in soil (4/4) using hydraulic excavator and tipper with Gupwal upto 1000m distance					
<u>Kharanga portion (equilateral)</u>					
<u>One side</u>					
$2 \times 30.00 \times 0.500 \times 0.100$					$3.00 m^3$
$1 \times 20.00 \times 0.375 \times 0.100$					$0.75 m^3$
<u>Other side (P.C.C)</u>					—
$3 \times 30.00 \times 0.500 \times 0.100$					$4.50 m^3$
$1 \times 15.00 \times 0.375 \times 0.100$					$0.56 m^3$
<u>Last P.T of</u>					
<u>Verloze -</u>					
<u>Other side</u> $1 \times 20.00 \times 0.375 \times 0.100$					$0.75 m^3$
					<u>Total =</u> $12.56 m^3$
<u>CR</u>					
<u>20/01/21</u>					
<u>2.5</u>					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Date of Contn. → 28/01/21					
Item No excavation for road					
(1/4) work in field, with hydraulic excavator — do — do —					
Using H — — — —					
P.C.C P.T (complex) (other work)					
— x — — — —					
2x3x30.00x0.375x0.100					6.75m ³
1x2x30.00x0.500x0.100					9.00m ³
Total					9.75m ³ .

Item No construction of embankment
(2/5) with material obtained from
Roadway cutting do — do —
Roadway cutting 94
$$= 12.56 + 9.75$$
$$= 22.31 \text{ m}^3$$
$$60\% \text{ of } 22.31 = 13.40 \text{ m}^3$$

Item No Granular sub base mix
(3/8) coarse graded material
(for grading 1 material) -
— d — d —

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Klaxan Road (widening PT)					
2x 30.00 x 0.500 x 0.100				0.100	3.00 m ³
1x 20.00 x 0.375 x 0.100				0.100	0.75 m ³
P.C.C P.T					—
3x 30.00 x 0.500 x 0.100					4.50 m ³
1x 15.00 x 0.375 x 0.100					0.56 m ³
L.T of village					—
2x 30.00 x 0.500 x 0.100					3.00 m ³
1x 20.00 x 0.375 x 0.100					0.75 m ³
Both sides P.C.C P.T					—
2x 3x 30.00 x 0.375 x 0.100					6.75 m ³
1x 2x 30.00 x 0.500 x 0.100					3.00 m ³
Profile correction of damaged					
P.C.C portion					
1x 10.00 x 2.00 x 0.100					2.00 m ³
1x 2.00 x 1.40 x 0.100					0.28 m ³
1x 8.00 x 1.10 x 0.100					0.88 m ³
Total = 25.47 m ³					
28/1/21					
2 E					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Date of Entry → 09/02/21.					
Item no Providing, bring, spreading (1/3) and compacting stone aggregate of specified size - do - do -					
Earth portion					
— x — x —					
Ck - 0 to 40 m ⁴					
2 x 20.00 x 3.75 x 0.075					11.25 m ³
Baric Joling p. 7					
— x — x —					
2 x 30.00 x 3.75 x 0.075					16.88 m ³
1 x 25.00 x 3.75 x 0.075					7.03 m ³
P.C.C portion (Dargah p. 7)					
1 x 10.00 x 2.00 x 0.075					1.50 m ³
1 x 2.00 x 1.40 x 0.075					0.21 m ³
1 x 8.00 x 1.10 x 0.075					0.66 m ³
1 x 20.00 x 0.800 x 0.075					1.20 m ³
G.O. portion					
2 x 3.75 x 1.50 x 0.075					0.84 m ³
Village Last End portion:-					
Damaged part of P.C.C					
— x — x —					
1 x 3.00 x 2.00 x 0.075					0.45 m ³
1 x 8.00 x 1.10 x 0.075					0.66 m ³
2 x 4.00 x 2.00 x 0.075					1.20 m ³
1 x 12.80 x 2.40 x 0.075					2.30 m ³

Continuation

09/02/21					
0.5					

Item No	Concrete pavement		
1/10)	M-30 grade - 150		

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$1 \times 9.00 \times 3.20 \times 0.160$					4.61 m^2
CL - 206 to 212					—
$1 \times 6.00 \times \left(\frac{3.20 + 3.00}{2} \right) \times 0.160$					2.98 m^2
CL - 212 to 225 Mt					—
$1 \times 13.00 \times 3.00 \times 0.160$					6.24 m^2
CL - 225 to 236					—
$1 \times 11.00 \times \left(\frac{3.00 + 2.81}{2} \right) \times 0.160$					5.11 m^2
CL - 236 to 239 249					—
$1 \times 13.00 \times \left(\frac{2.81 + 2.90}{2} \right) \times 0.160$					5.94 m^2
CL - 249 to 254					—
$1 \times 5.00 \times \left(\frac{2.90 + 3.20}{2} \right) \times 0.160$					2.44 m^2
(Side of House)					—
$1 \times 6.6 \times 1.78 \times 0.100$					11.75 m^2
$1 \times 9.30 \times 2.28 \times 0.100$					2.12 m^2
CL - 254 to 264 Mt					—
— x — x —					—
$1 \times 10.00 \times \left(\frac{3.20 + 4.08}{2} \right) \times 0.160$					5.82 m^2
CL - 264 to 280					—
$1 \times 16.00 \times \left(\frac{4.08 + 3.80}{2} \right) \times 0.160$					10.08 m^2
CL - 280 to 303 Mt					—
$1 \times 23.00 \times \left(\frac{3.80 + 3.40}{2} \right) \times 0.160$					13.25 m^2

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
CL- 303 to 314 M+					
$1 \times 11.00 \times \left(\frac{3.40 + 3.96}{2} \right) \times 0.160$					6.48 m ³
		2			—
CL- 314 to 327					—
$1 \times 13.00 \times \left(\frac{3.96 + 3.80}{2} \right) \times 0.160$					7.86 m ³
		2			—
CL- 327 to 338					—
$1 \times 11.00 \times \left(\frac{3.60 + 3.81}{2} \right) \times 0.160$					6.52 m ³
		2			—
CL- 338 to 356 M+					—
$1 \times 18.00 \times \left(\frac{3.81 + 3.60}{2} \right) \times 0.160$					10.67 m ³
		2			—
					<u>220.61 m³</u>

20/02/21
 0-6
 3/20/02/21
 A-6

Abstract of cost

Name of work: → Construction of
 Road from Katauli, Ragunath-
 pur Patk to Rampur under
 MMMSY, District, Jehanabad (Bihar).
 Name of contractor: → Sri Abhishek
 Kumar Ranjan, At Plot No- 404,
 Ramchandrapur, Abhaipur, Patna-1.

Particulars	Details of measurement				Contents of area
	No.	L.	B.	D.	
Blood Nall Road, Patna.					
Agreement No. → 28/SRD/20-21.					
Date of start of work → 09/01/21.					
Date of completion →					
Actual date of start → 09/01/21.					
Actual date of completion → work is in progress.					
Date of Entry → 08/03/21.					
Item no					
(1/1) Prov'n & fixing of					
working bench mark pillars					
— do — do —					

V. T. M. B. P. No - 01
1.00
1.00/km @ Rs 3614.01/km Rs- 3614.00

Item no
(2/2) Prov'n & fixing
working bench mark
pillars - do - do -

V. T. M. B. P. No - 02
1.00
1.00/km @ Rs 1640.72/km Rs. 1641.00

Item no
(3/3) clearing and grubbing
Road land - do -
— do —

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
V.T.M.B. P.No. - 02,					
			0.04 Hec.		
@ Rs 52970.33/Hec - Rs-					2119.200.
Item no					
(4/4) Excavation in soil					
Using Hydraulic excavator					
— do — do —					
V.T.M.B. P.No. - 05806					
			12.56 m ³		
			9.75 m ²		
			Total = 22.31 m ³		
@ Rs 74-10/m ³ — Rs-					1653200.
Item no					
(5/5) embankment with material					
obtained from Road-cutting					
cluttering - do - do —					
V.T.M.B. P.No. - 06.					
			13.40 m ³		
@ Rs 56.15/m ³ — Rs-					752200.
Item no					
(6/6) Construction of embankment					
with material obtained					
from borrow pit - do - do —					
V.T.M.B. P.No. - 02,					
			443.50 m ³		

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
@ Rs 190.35/m ³ — Rs — 80420.200					
Item no					
(7/8) Circular sub base					
by well graded material — for grading — 1 —					
— do — do —					
V.T.M.B. P.No. — 05107					
		18.12 m ³			
		25.47 m ³			
Total = 43.59 m ³					
@ Rs 1768.21/m ³ — Rs — 77076.200					
Item no					
(18/9) CURB grading					
— 3 — do —					
— do —					
V.T.M.B. P.No. — 081					
		45.27 m ³			
@ Rs 2307.43/m ³ — Rs — 104457.200					
Item no					
Cement concrete pavement					
(19/10) M-30 grade —					
— do — do —					
V.T.M.B. P.No. — 111					
		220.61 m ³			
@ Rs 4970.27/m ³ — Rs 10,96,491.20					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Item no					
(10/18)	cable duct across				
	the road - do -				
	do -				
V. T. M. B. P. No.:-	04				
	10.00 M+				
@ Rs 921.12 / M+	—				Rs- 9211.20
Item no					
(11/22)	Door & Fixing of				
	typical M.M.S.S. Board				
	do - do -				
V. T. M. B. P. No.:-	02				
	2 Nos,				
@ Rs 9398.42 / No	—				Rs 28195.20
Item no					
(12/20)	Box work in masonry				
	for structure as per				
	drawing - do - do -				
V. T. M. B. P. No.:-	03,				
	31.32 m ³				
@ Rs 305.42 / m ³	—				Rs- 9566.00
Item no					
(13/24)	p.c.c (1:2:5) as				
	levelling course in foundation - do -				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
— d — d —					
V.T.M.B. P.NO.1 - 04,					
			26.41	m ³	
P.NO-03 -			5.68	m ³	
Total			32.09	m ³	
@ Rs 305.42/m ³ —					Rs - 9801 = 00
Item no					
(14/25)					
provisions laying R.C.C					
Dike no-3 for					
culverts on first class beddn					
— d — d —					
V.T.M.B. P.NO.1 - 04,					
			15.00	M	
@ Rs 2036.18/M —					Rs 30452 = 00
Total Rs 1459448 = 00					
Add 1% labour etc =					14594 = 00
Add 12% G.S.T =					175134 = 00
100 100 100 10.3.2021					
Total Rs 16,49,176 = 00					
Less 15% as per agg = (-) Rs 2,47,376 = 00					
Total Rs = 14,01,800 = 00					

08/03/21

3 08.3 21
AE

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AE Continuation