

Ranjeet Kumar Ranjan
Ag no - 10 S.B.D/2019-20

P.M.G.S.Y Path To Khanna (M.M.G.S.Y) S.C. ①

Measurement Book

Schedule XLV-Form No. 134

Khanna

DIVISION

Khanna

SUB-DIVISION

M.B.ND-1057

3rd and Construction Final Bill

12

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of Road:- RMGSY Path					
To Kharua (RMGSY)					
Agency:- Ramjeet Kumar Raniya					
At:- Kharua, Panshi, Kharua					
Agreement no:- 10580/2019-20					
Date of start:- 02.03.2020					
Date of completion:- 01.03.2021					
51) Clearing and grubbing road					
land (by manual means) includ-					
-ing uprooting mild vegetation					
	2x	23.6x	3.50		161.00m ²
					= 0.016 Hec.
52) Construction of granular sub-					
base by providing as per cd					
	6.0x	(4.60+10.20)/2x	0.20		8.88m ³
	5.0x	(10.20+6.00)/2x	0.20		8.10m ³
	5.0x	(6.0+4.70)/2x	0.20		5.35m ³
	5.0x	(4.70+4.05)/2x	0.20		4.38m ³
	1x	5.00x	4.05x	0.20	4.05m ³
	7.00x	(3.75+6.50)/2x	0.100		3.59m ³
	Total=				34.35m ³
Junction:-	5.10x	(14.70+8.70)/2x	0.20		11.93m ³
	Total=				46.28m ³
53) Providing laying & spreading					

Continuation

Continuation

Particulars	Details of actual measurement				Content of area
	No.	L.	B.	D.	
and compacting stone aggregate					
- 150mm or more dia per sqm					
					$6.00 \times (6.60 + 10.00) / 2 \times 0.075 = 3.24 \text{ m}^3$
					$5.00 \times (10.00 + 9.80) / 2 \times 0.075 = 2.96 \text{ m}^3$
					$5.00 \times (9.80 + 4.50) / 2 \times 0.075 = 1.93 \text{ m}^3$
					$5.00 \times (4.50 + 3.75) / 2 \times 0.075 = 1.55 \text{ m}^3$
					$16 \times 30.00 \times 3.75 \times 0.075 = 135.00 \text{ m}^3$
					$1 \times 25.00 \times 3.75 \times 0.075 = 7.03 \text{ m}^3$
					$7.00 \times (3.75 + 6.50) / 2 \times 0.075 = 2.69 \text{ m}^3$
Junction:-					$5.10 \times (14.50 + 8.50) / 2 \times 0.075 = 4.60 \text{ m}^3$
					Total = 158.80 m³

(4) Construction of up-catch					
- red plain cement concrete					
thickness as per design spec.					
					$10 \times 30.00 \times 3.75 \times 0.160 = 180.00 \text{ m}^3$
					$8 \times 30.00 \times 3.75 \times 0.160 = 144.00 \text{ m}^3$
					$1 \times 20.00 \times 3.75 \times 0.160 = 12.00 \text{ m}^3$
					$7.00 \times (3.75 + 6.50) / 2 \times 0.160 = 5.76 \text{ m}^3$
					Total = 341.76 m³

(5) Providing and applying for					
- inner coat with bitumen emulsion (SS-D) as per specification					
					$6.00 \times (9.40 + 10.0) / 2 = 43.20 \text{ m}^2$
					$5.00 \times (10.0 + 9.80) / 2 = 39.50 \text{ m}^2$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(9) Construction of Supergrade and earthen shoulder as per drawing and Section					
	$2 \times 26.0 \times (1.125 + 1.525) / 2 \times 0.20$				13.78 m ³
	$2 \times 27.0 \times (0.85 + 1.0) / 2 \times 0.100$				5.00 m ³
	$2 \times 18 \times 30.0 \times (1.10 + 1.20) / 2 \times 0.075$				62.10 m ³
	$2 \times 18 \times 30.0 \times (1.10 + 1.20) / 2 \times 0.075$				62.10 m ³
	$2 \times 1 \times 26.0 \times (1.10 + 1.20) / 2 \times 0.075$				4.49 m ³
	$2 \times 18 \times 30.0 \times (1.0 + 1.10) / 2 \times 0.075$				85.05 m ³
	$2 \times 1 \times 27.0 \times (1.0 + 1.10) / 2 \times 0.075$				4.25 m ³
	$2 \times 18 \times 30.0 \times (0.30 + 0.50) / 2 \times 0.15$				66.80 m ³
	$2 \times 1 \times 27.0 \times (0.30 + 0.50) / 2 \times 0.15$				3.24 m ³
	Total =				286.03 m ³

(10) Construction of embankment with material obtained from borrow pits with a/cft - 16					
Change Area measured Dist. cft.					
0.0	4.988	-	-	-	0.00
50	6.832	5.910	50.0	295.50	
100	6.798	6.815	50.0	340.75	
150	7.128	6.960	50.0	348.00	
200	6.768	6.965	50.0	347.25	
250	6.458	6.610	50.0	330.50	
300	7.231	6.848	50.0	342.10	
350	6.858	7.066	50.0	352.20	

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(i) Lead up to 100 mth =					2161.85 m ³
Less board & by vide MB, P-9 =					1125.80 m ³
Total =					1036.05 m ³
(ii) Lead up to 100 m =					
(3526.75 - 2161.85) =					1364.90 m ³
Less board & by vide MB, P-9 =					1347.10 m ³
Total =					17.80 m ³
(11) Reinforced cement concrete					
grade M-15 in Km. stone cap					
(i) Km. stone = 3 Nos.					
(ii) 200 m stone = 5 Nos.					
(12) Road marking with hot					
applied thermoplastic compound					
with as per drawing					
CC:-	2x	18x	30.0x	0.10 =	108.00 m ²
	2x	1x	27.0x	0.10 =	5.40 m ²
Total =					113.40 m ²
(13) Road marking with hot					
red thermoplastic compound					
with as per B.P. Part 207-00					
	2x	24x	30.0x	0.10 =	144.0 m ²
	2x	1x	26.0x	0.10 =	5.20 m ²
Continuation	2x	6.00x	0.50	=	6.00 m ²
Total =					155.20 m ²

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(14) Providing and fixing of water reflective coating as per mandatory and as per (i) 600 mm equilateral = 24 Nos.					
(15) 600 mm Circular = 8 Nos.					
(16) 600 x 450 mm rectangle = 2 Nos.					
(17) 900 mm side octagon = 4 Nos.					

(18) Providing and erecting
good place identification
as per technical specifica
= 1 Nos.

(19) Reinforced cement
concrete M/S. Boundary pillar
= 16 Nos.

(20) Planting of tree and ma-
intenance for one year on-
= 76 Nos.

(21) Providing and fixing 'gate'
of project margin as per
= 4 Nos.

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1
6

Continuation
20/01/2024
J.B.
Khagaria.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>ABSTRACT OF COST</u>					
(1) Providing and fixing of working benchmark as per					
1 Nos. vide TMB.P-09					
@ 3856.54/No. ₹ 3857.00					
(2) Clearing and grubbing and land by manual means as					
0.903 Hec. vide TMB.P-09					
+ 0.016 Hec. " " " P-12					
0.919 Hec. @ 49496.70/Hec. ₹ 45487.00					
(3) Construction of embankment lead up to 100 mtr as per					
1125.80 m ³ vide TMB.P-09					
+ 1036.05 m ³ " " " P-17					
2161.85 m ³ @ 150.21/m ³ ₹ 324721.00					
(4) Construction of embankment lead up to 1000 mtr as per					
1347.10 m ³ vide TMB.P-09					
+ 17.80 m ³ " " " P-17					
1364.90 m ³ @ 174.83/m ³ ₹ 238625.00					
(5) Construction of supergrade and earthen shoulders					
2122.38 m ³ vide TMB.P-09					
+ 286.03 m ³ " " " P-15					
2408.41 m ³ @ 176.47/m ³ ₹ 425012.00					
(6) Construction of formula					

Continuation

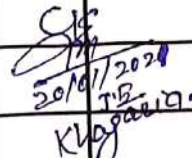
Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
512) 700 mm side octagon					
2 Nos. vide TMB.P-18					
@ 8855.74/Nos. ₹					35423.
516) Road marking with hot applied oil Bitumen surface					
135.20 m ² vide TMB.P-17					
@ 735.40/m ² ₹					114134.
517) Road marking with hot applied oil PCC surface - do					
118.40 m ² vide TMB.P-17					
Limit = 118.0 m ² @ 820.83/m ² ₹					91933.00

518) Direction and place in identification sign upto 0.9 sqm. size board as per P.Nos. vide TMB.P-18					
@ 2741.66/Nos. ₹					2742.00
519) Providing and fixing 'log' of Project - dimensions with material board as per ch. 6					
2 Nos. vide TMB.P-10					
+ 4 Nos. " " " P-18					
6 Nos. @ 8856.06/Nos. ₹					53124.00
520) Planting of trees by the road side in 0.6 m. dia hole 1.0 m. depth deep in the					

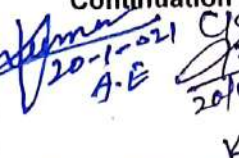
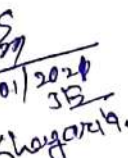
Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
ground. masonry the solid					
76 nos. 1000 mm x 100 mm x 100 mm					
					60823.00
					Total ₹ 74875.89
Add GST @ 12% = ₹					8985.06
Add L.C. @ 1% = ₹					7487.50
					Total ₹ 84609.39
LCSS m/pcr 1190.09% = ₹					761.50
					Total ₹ 84533.85
LCSS previous bill ₹ =					34124.60
					Net Bill ₹ 50409.25

 20-1-21
 A.V.
 20/01/2024
 K. Jagannath.

<u>Material Consumption</u>	
Earth work:-	1339.88 m ³
Stone:-	622.62 m ³
Screening:-	38.11 m ³
Sand:-	164.89 m ³
Emulsion (SS-D):-	2.471 MT
Emulsion (BS-X):-	0.799 MT
Bitumen:-	5.081 MT
Bricks:-	25927 Nos.
Local Sand:-	15.85 m ³

Continuation

 30.1.24
 A.E.
 20-1-21
 A.E.
 20/01/2024
 K. Jagannath.