

पर्याप्त करा जाएः— प्रभाग (SC) — प्रतिपादिता अंगी देला से पुस्तकालय
Punjab तथा पर्याप्त निर्माण जाहि.

Schedule XLV-Form No. 134

कार्यपालक अधिकारी

ग्रामीण कार्य विभाग, कार्य प्रमाणित
नारकटियांगज

DIVISION

प्रबोध.— प्रतिपादिता

SUB-DIVISION

M.B.H.— 1637 / 2022-23

MEASUREMENT BOOK

(भी राज्य कामाल संस्था)

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
name of works / construction of ground form					
chambalga fair tala-topurana					
Dim. in mm					
Agency: SSI Bureau Kharar Muttia					
Agency code: C4/2022-23					
Date of start: 20.12.21					
Date of work: 19.12.22					
Date end: 25.3.23					
(b) calculation for sand weight					
by manual measurement					
Basically: $2 \times 26 \times 0.4 \times 0.1 = 2.08 \text{ m}^3$					
$2 \times 2.9 \times 0.375 \times 0.1 = 2.17 \text{ m}^3$					
.					4.25 m^3
(b) calculation of total quantity					
material: sand					
Basically: $2 \times 26 \times 0.4 \times 0.1 = 2.08 \text{ m}^3$					
$2 \times 2.9 \times 0.375 \times 0.1 = 2.17 \text{ m}^3$					
possible correction					
$3 \times 2.1 \times 1.75 \times 0.1 = 3.3 \text{ m}^3$					
$4 \times 2.9 \times 1.6 \times 0.1 = 1.87 \text{ m}^3$					
over/less:					
$1 + 2.6 \times 3.3 + 3.45 \times 0.1 = 8.77$					
		2			18.17 m^3

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(3) Earth work excavation in foundation trenches — ds —					
Area = $4 \times 2 \times 6.45 \times 1.55 \times 1.375 = 133.36 \text{ m}^2$					
B.P. = $4 \times 1 \times 5.07 \times 1.53 \times 0.54 = 16.52 \text{ m}^3$					150.48 m^2
(4) Party board filling in foundation trenches — ds —					
Area = $4 \times 2 \times 6.45 \times 1.55 \times 1.1 = 8.0 \text{ m}^2$					
B.P. = $4 \times 1 \times 5.57 \times 1.53 \times 0.1 = 3.42 \text{ m}^3$					11.42 m^2
(5) Party board filling in foundation trenches — ds —					
Area = $4 \times 2 \times 6.45 \times 1.55 = 7.398 \text{ m}^2$					
B.P. = $4 \times 1 \times 5.65 \times 1.53 = 34.57 \text{ m}^3$					114.57 m^2
(6) Party board filling in foundation trenches — ds —					
Area = $4 \times 2 \times 6.3 \times 1.4 \times 0.15 = 10.56 \text{ m}^2$					
B.P. = $4 \times 1 \times 5.26 \times 1.53 \times 0.75 = 13.4 \text{ m}^3$					
Surf. Area = $4 \times 0.198 \times 0.7857 \times 1.23 \times 5.35 = 0.532$					20.66 m^2
D.Q. of earth = - 30.32					

Continuation

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
(2) Brk. masonry work in c.m.				
(1:4) in front wall				
W-Wall: $4 \times 2 \times 6.15 \times 1.23 + 0.4 = 12.45$				
				$= 150.04\text{m}^2$
Front: $4 \times 2 \times 6.15 \times 0.4 \times 0.6 = 11.80\text{m}^2$				
Ex-Labor: $4 \times 2 \times 0.7657 \times 1.23 + 0.62 = 15.82$				
				106.82m^2
(3) paving and laying 15mm thickness				
Brk. Wall H.P.				
$4 \times 3 \times 2.5 = 30\text{m}$				
(4) paving with cement mortar (1:4)				
on Brk. wall				
outer: $4 \times 2 \times 6.15 \times 1.83 = 90.62\text{m}^2$				
inner: $4 \times 2 \times 6.15 \times 0.60 = 29.52\text{m}^2$				
Tan: $4 \times 2 \times 6.15 \times 0.4 = 13.68\text{m}^2$				
Gradi: $4 \times 4 \times 0.612 \times 1.23 = 12.04\text{m}^2$				
Pav. H.P.: $4 \times 4 \times 0.4 \times 0.6 = 3.84\text{m}^2$				
				155.08m^2
(5) $4 \times 2 \times 0.7657 \times 1.23 = 19.48$				
				145.6m^2
(6) paving 15mm thick cement				
paving	—	ON	—	
Tan: $4 \times 2 \times 6.15 \times 0.4 = 19.68\text{m}^2$				

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Area :-	4-4	10-4	0-6	=	2-4 m ²
Width :-	9-2	6-15	0-6	=	2-7-52
					53-04 m ²

(11) Paddy Laying (Spring crop)					
Surrounding width 10-23 - do -					
14-0 x 4-2 + 3-75					
— — — — — x 0-075 = 4-17 m ²					
10-0 x 4-3 + 3-75					
— — — — — x 0-075 = 3-01					
16-0 x 3-75 + 3-45					
— — — — — x 0-075 = 6-63					
					13-81 m ²

(12) Paddy & Laying (Summer Rice)					
Surrounding width 10-23 - do -					
2-4 x 2-5 = 15-0 m ²					
2-4 x 2-5 = 15-0 m²					
10-23					
3-01					
Date of survey : 20.10.23					

(13) continuous measurement					
P.C.R. P.M.M.R. - do -					
14 x 4-2 + 3-75 x 0-16 = 8-9 m ²					
— — — — — x 0-16 = 6-44 m ²					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		$3.6 \times 3.75 + 3.05 \times 0.16 = 14.14 m^2$			
		$3 \times 3.75 + 3.05 \times 0.16 = 1.63$			
		$8 \times 30 \times 3.75 \times 0.16 = 192.00$			
		$1 \times 11 \times 3.75 \times 0.16 = 6.60$			
					$181.71 m^2$

(ii) Boundary & building traced

with error from 331 - 1m

$20 \times 30 \times 3.75 = 225.0 m^2$
$16 \times 30 \times 3.3 + 3.05 + 3.75$
$= 168.0 m^2$
$16.0 \times 3.8 + 3.2 = 49.60$
$3979.6 m^2$

Survey 22
20.10.23

Date of Survey - 31.10.23

(iii) Boundary & building traced

and with error from 331

g. with boundary - 14

b - 21 = 3979.6 m²

(iv) max and min boundary with

waste places - 1m -

g. with boundary

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
17) Paddy and Kharai Rice	115				
16-m-101	—	ds	—		
	200				
18) Paddy and Kharai Rice	115				
grade 2nd m psl	—	ds	—		
	6m				
19) Paddy and Kharai Rice	115				
grade 2nd m psl	—	ds	—		
	32m				
20) Paddy two land on Kharai					
Paddy out	—	ds	—		
	24.4 × 6.2 + 1.8 = 89.25 m ²				
21) Kharai and a kharai water bath					
Kharai Psl	—	ds	—		
	2.1 × 30 × 0.1 = 6.3 m ²				
	2.1 × 9 × 0.1 = 1.8				
	2.1 × 30 + 0.1 = 48.0				
	2.1 × 21 × 0.1 = 3.0				
	61.8 m ²				
22) Round mung with flat applic					
Thurms psl	—	ds	—		

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
		24.45	2.0	0.1	$= 0.486 \text{ m}^2$
		24.1	2.0	0.1	$= 0.48 \text{ m}^2$
					$- 250.0 \text{ m}^2$

(23) Paving and laying maintenance

Brick - - - -
2 m²

(24) Paving and laying trimmings

Traffic sign Board - - -
1 m²

(25) Paving and laying rebar

Traffic sign Board - - -
2 m²

(26) Paving and laying rebar

sign Board - - -
2 m²

(27) Placing of tree archimer

maintenance - - -
110 m²

(28) Construction of embankment with

Soil dot from borrow pit
level 100 m into 100 m

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L	B.	D.	
1	C.L.A. mca. high				89 (a)
2	0.44	3.375	—	—	—
3	500	5.063	4.321	x 50 =	226.025
4	150.7	5.658	5.251	x 50 =	267.975
5	151	4.555	3.112	x 50 =	205.375
6	211	4.212	4.356	x 50 =	213.375
7	250	3.925	4.063	x 50 =	213.475
8	310	3.838	3.832	x 50 =	194.575
9	350	3.724	3.521	x 50 =	191.150
10	400	3.667	3.434	x 50 =	181.875
11	450	3.196	3.140	x 50 =	157.800
12	500	3.157	3.137	x 50 =	158.825
13	510	1.303	4.152	x 50 =	203.250
14	550	1.364	1.336	x 50 =	66.775
15	700	1.352	1.36	x 50 =	68.800
16	750	1.088	1.088	x 50 =	70.000
17	800	1.575	1.487	x 50 =	74.125
18	850	3.240	2.693	x 50 =	181.625
19	900	6.321	5.056	x 50 =	202.475
20	950	5.030	5.701	x 50 =	265.025
21	1000	4.948	4.983	x 50 =	249.450
22	1050	3.572	4.21	x 50 =	213.000
23	1100	1.571	2.572	x 50 =	128.575
24	1150	1.638	1.605	x 50 =	80.225
25	1200	1.361	1.399	x 50 =	73.350

Continuation

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SAR SURVEYED NO 154

Perpendicular	Area of Survey Measurements				Contents of area
	A	B	C	D	
0.0m	0.00	0.00	0.00	0.00	0.00 (0)
1.2m	1.639	-1.278	+ .19	= 3.9.845	
1.5m	1.215	-1.593	-6.54	= 32.958	
1.8m	1.577	-1.545	+ 5.53	= 32.250	
2.1m	1.363	-1.472	+ 5.0	= 33.640	
					<u>4510.2200</u>

Horizontal crest = 1907.26 m

193061.96 m

(2) contents of embankment without soil

at 50mm between top level 100m

$$\text{ay} = 306.96 \times 0.2 \\ = 612.32 \text{ m}^3$$

(3) contents of embankment with soil

at from bottom to top level 100m

$$\text{ay} = 306.96 \times 0.165 \\ = 1923.81 \text{ m}^3$$

(4) contents of embankment or shoulder

shoulder - 0m

$$\text{ay} = 306.96 - (612.32 + 1923.81) \\ = 1025.76 \text{ m}^3$$

~~at 50mm
310.25~~

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(1) Contracted Survey Piling					
Piling	—	ds	—	—	
g. side 1mtr. 11					
b = 13.47m - 1.1 = 12.37m					
@ 1m 55.92 m ² /km - 1m 21.837 = a					
(2) Contracted Balance Piling					
Buried	—	ds	—	—	
g. side 1mtr. 212					
b = 13.47m - 1.212 = 1.2348m					
@ 1m 52.970.34 m ² / km - 1m 41.33 = a					
(3) Drawing and Gravel road bed					
including	—	ds	—	—	
g. side 1mtr. 313					
b = 13.47m - 1.313 = 0.4234m					
@ 1m 52.970.34 m ² / km - 1m 22.248 = a					
(4) Contracted embankment (Walls)					
abt from bottom left end 1.00m					
g. side 1mtr. 412					
b = 13.47m - 1.412 = 1.1828m					
29 pavers m - 25 = 61.23 m ²					
@ 1m 190.07 m ² - 1m 146.397 = a					
(5) Contracted cutting					
Continuation					

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Particulars	Details of actual measurement				Contents of area
	A.M.	L	B	D	
area (Excluding embankment)					
g. wide 100m -					
b - 25 m. \times 100m. \times 2.5 = 1250 m ³					
(@ A.M. 131.76/m \rightarrow 136.780.6)					
area (including embankment) w/ 30					
g. wide 100m -					
b - 25 m. \times 100m. \times 3 = 1250 m ³					
(@ A.M. 153.28/m \rightarrow 21.8953 =)					
(7) Excluding embankment					
g. wide 100m -					
g. wide 75m. \times 7.5					
b - 14.67 m. \times 7.5 = 131.93 m ³					
@ Add 10m. \times b - 17 = 4.27 m ³					
					136.18 m ³
(@ W. 75 = 571/m \rightarrow 10231 =)					
(8) including embankment					
g. wide 100m -					
g. wide 75m. \times 8.1					
b - 14.67 m. \times 8.1 = 118.67 m ³					
@ Add 10m. \times b - 17 = 18.17 m ³					
					132.84 m ³
(@ W. 75 = 571/m \rightarrow 19676.01 =)					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(11) Trinig by Corbong					
area	1	do			
area with minor gha					
$b = 15 \text{ m}$					
$P = 15 + 2 \times b = 37.5 \text{ m}$					
$\text{area} = 15 \times 37.5 = 562.5 \text{ m}^2$					
$\text{area} = 562.5 \text{ m}^2 \times 1.46878 = 825.09 \text{ m}^2$					
(11/2) Rain and Water holding intenay					
area	1	do			
area with minor 1/122					
$b = 15 \text{ m}$					
$P = 15 + 2 \times b = 37.5 \text{ m}$					
$\text{area} = 15 \times 37.5 = 562.5 \text{ m}^2 \rightarrow 1.25810 \text{ m}^2$					
(11/3) Gharbhahon intenay					
area	1	do			
area with minor - 3					
$b = 15 \text{ m}$					
$P = 15 + 2 \times b = 37.5 \text{ m}$					
$\text{area} = 15 \times 37.5 = 562.5 \text{ m}^2 \rightarrow 1.49375 \text{ m}^2$					
(12/32) sand bily in terraced area					
area	1	do			
area with minor - 4					
$b = 15 \text{ m}$					
$P = 15 + 2 \times b = 37.5 \text{ m}$					
$\text{area} = 15 \times 37.5 = 562.5 \text{ m}^2 \rightarrow 1.5053 \text{ m}^2$					

Continuation

Particulars	Details of actual measurement				Contents of area
	H	L	B	D	
(15) Piling stones laid in foundation	—	—	—	—	
@ side 1mm = 1 b-15					
b-15 d-TmB = 114.52					
@ b 6003.67/m ² → 147930=					
(16) Piling stones laid in foundation	—	—	—	—	
@ side 1mm = 6					
b-15 d-TmB = 24.64 m ²					
@ b 6003.67/m ² → 147930=					
(17) Piling stones laid in foundation	—	—	—	—	
@ side 1mm = 7					
b-19 d-TmB = 106.05 m ²					
@ b 5716.56/m ² → 6,06,070=					
(18) Piling and laying brick data Ref. No. 3 b-19	—	—	—	—	
@ side 1mm = 8					
b-19 d-TmB = 30 m					
@ b 3661.74/m → 119852=					
(19) Piling with cement mortar	—	—	—	—	
on brick (K. stone - ds)					
	Continuation				

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					area 100m ²
	b = 17.47 m B = 14.5 m				$17.47 \times 14.5 = 247.96 \approx 248$
	(@) D 186.80 / m ² - m				248 x 186.80 = 46380.80
(18/38)	Paving 1.5mm thickness				
	Distance - 0m				
	area 100m ² - 10				
	b x w = 20 = 53.04 m ²				
	(@) D 58.40 / m ² - m				53.04 x 58.40 = 3102.20
(19/23)	Paving and 10mm 1.5mm				
	area 100m ² - 5				
	b x w = 30 = 15 m				
	stack 10mm 1.5m D = 20 = 15 m				
					30 m
	(@) D 717.32 / m - m				30 x 717.32 = 21520
(21/13)	concrete floor slab				
	per payment - 0m				
	area 100m ² - 13				
	b = 20 m T = 0.3 m B = 18.71 m ²				
	(@) D 716.52 / m ² - m				18.71 x 716.52 = 1302.001
(21/11)	Paving and applying prima				
	concrete with emulsion 551 - ds -				
	area 100m ²				
	Continuation				

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
14(b) Pond and embankments					3379.6 m^2
(i) $\text{W}_1 = 45 \text{ m}^2 \rightarrow 6172.513 = \text{m}$					

(22)(d) Ponds and embankments

with embankments R.R. - cu

ground level - 15

$$b = 21 \text{ m} \times 25 \text{ m} = 525 \text{ m}^2$$

$$(ii) D 14.66 \text{ m}^2 \rightarrow D 58341 \text{ m}$$

(23)(d) Ponds and embankments with walls

plaster - cu

exp. height - 12

$$\text{ponds} - \text{embankments} = 3379.6 \text{ m}^2$$

$$(iii) D 214 = 55 \text{ m}^2 \rightarrow D 853823 \text{ m}$$

(24)(d) Ponds and embankments

ground - cu

ground level - 17

$$b = 22 \text{ m} \times 25 \text{ m} = 550 \text{ m}^2$$

$$(iv) D 22.92 = 23 \text{ cu m} \rightarrow D 537422$$

(25)(d) Ponds and embankments

22.8 m part - cu

ground level - 16.6 -

$$\text{embankments} = 6 \text{ m}^2$$

$$(v) D 650 = 23 \text{ cu m} \rightarrow D 3301 =$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(26) (1) Paving and paving base m ²					
Brick (concrete) pillars	—	dm	—	—	
a) side diameter - 15					
b = $\pi \times 15^2 \times 0.01 = 7.07 m^2$					
@ Rs 537.67 /m ² — Rs 17215/-					
(27) (2) Paving and concrete Slab					
Paving Slab	—	dm	—	—	
a) side diameter - 20					
b = $\pi \times 20^2 \times 0.01 = 89.28 m^2$					
@ Rs 101.40/m ² — Rs 9053/-					
(28) (3) Paving and paving water					
Brick concrete Pav.	—	dm	—	—	
a) side diameter -					
b = $\pi \times 15^2 \times 0.01 = 60.80 m^2$					
@ Rs 93.20 /m ² — Rs 5666/-					
(29) (4) Round paving with help					
Applied thermal plastic compound	—	dm	—	—	
a) side diameter - 22					
b = $\pi \times 22^2 \times 0.01 = 280.0 m^2$					
@ Rs 724.97/m ² — Rs 20216/-					
(30) (5) Paving and paving concrete					
Pavers	—	dm	—	—	

Continuation

Particulars	Details of actual measurement				Contents of area
	W.	L.	B.	D.	
	sq. width 10mm = 10m ²				
23 b - 22.407 mms = 2 mms					
(@) W 12.304 - by Survey -> 2.5810 m ²					
(24/25) Grouped and long triangular Traffic sign Board - ch -					
sq. width 10mm = 10m ²					
23 b - 23.407 mms = 14 mms					
(@) W 3.526.72 Cmtr -> 49.374 m ²					
(26/27) Grouped and long rectangular Traffic sign Board - ch -					
sq. width 10mm = 25					
b - 23.407 mms = 2 mms					
(@) W 4.037.27 Cmtr -> 81.96 m ²					
(28/29) Grouped and long octagon Traffic sign Board - ch -					
sq. width 10mm = 23					
b - 23.407 mms = 2 mms					
(@) W 7.661.85 Cmtr -> 157.22 m ²					
(30/31) plenty of trees and their members - ch -					
sq. width 10mm = 27.10 - 27					
110 mms (@) W 8.000 - by Survey -> 10. 32305 m ²					

Continuation

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Particulars	Distance of vertical measurement				Contents of area
	H.	I.	P.	D.	
					B. A. A. - 633.127 = m
(31/10) Area 12 - S = 1 414 343.663 = m					
(31/10) Area 17 L.C.M. 7.8 371 = m					
(31/10) Area 3.5 - V. 105 788 = m					
					By 50.29 531 = m
Lens 0.02 X.05 mm Ag (L) D 1806 = m					
					B. 90.27, 725 = m
Lens and Alc Bill (L) D 4351.689 = m					
					V. 46.76.036 = m

PP
30.10.23
J.E

Materials taken

total land	13.75 m ²
cured sand	6.8 m ³
coarse sand	123.53 m ³
metal	32.9 m ³
scraps	3.36 m ³
chips	292.36 m ³
emulsion 5% -	3.353 m ³
emulsion 2% -	1.59 m ³
bitumen	6.965 m ³
Bones	56.680 m ³

Gross - 431.96 m³ Continuation

PP
30.10.23
J.E