

B. TAKE OFF SHEETS FOR QUANTITY SURVEY

①

one 1 Ragharan sup structure

Raft foundation

long

$$Raft = 70$$

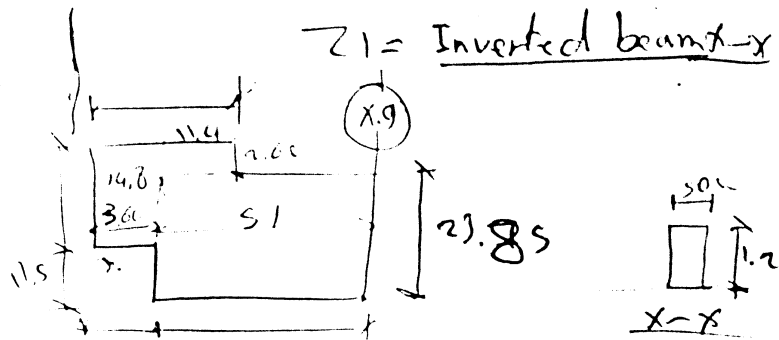
$$51 \times 27.85 = 1216.35$$

$$3.6 \times 14.8 = 53.28$$

$$2.6 \times 11.40 = 29.64$$

$$1298.27 \times 70$$

$$908.794 \text{ m}^3$$



$$20.50 + 6.75 + 3.2 + 6.6 + 1$$

$$= 38.05 \times 5 \times 1.2 = 28.54$$

$$8 \times 1.1 \times 1.2 = 10.56$$

$$39.1$$

Wall Z1

29 cm

$$51(10.9 \times 2 + 10.7 \times 3 + 2.7 \times 1.2) \times 1.25$$

$$= 274.8 \text{ m}^3$$

$$20.74$$

$$11.38$$

column circular Z1

$$17 \times 7.3 \times 3.14 \times 1.6 = 7.69 \text{ m}^3$$

$$17 \times 2.7 \times 3.14 \times 1.6 = 2.80 \text{ m}^3$$

Beam 2

blinding = Z1

$$24.05$$

$$51 \times 23.9 + 11.5 \times 1.2 = 1221.7$$

$$2.7 \times 15 = 55.5$$

$$2.7 \times 11.5 = 31.05$$

$$1344.25 \text{ m}^2$$

Summary Z1

$$Raft = 908.794 \text{ m}^3$$

$$beam = 39.1 \text{ m}^3$$

$$(75) Wall = 274.8 \text{ m}^3$$

$$(20) Wall = 7.69 \text{ m}^3$$

$$column \square = 2.80 \text{ m}^3$$

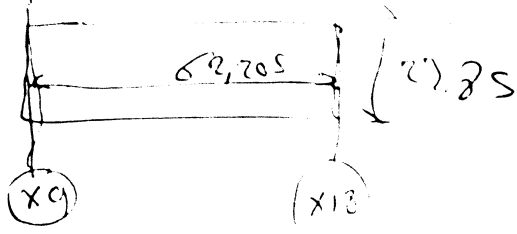
$$blind 10m = 1344.25 \text{ m}^2$$

Foundation / superstructure

(7)

Zone 2

Raft 70cm



$$62.205 \times 23.85 \times 1.2 = 1478.7$$

$$\Rightarrow \frac{1478.7}{1483.59} \times 1.7 = 1038.59$$

Wall

30cm

$$2 \times 3.2 \times 1.2 \times 1.7 = 12.3 \text{ m}^3$$

$$17 \times 1.3 \times 1.2 = 2.42$$

Column

$$18 \times 0.3 \times 1.2 \times 1.7 = 5.42$$

$$1 \times 0.4 \times 3.14 \times 1.2 = 1.60$$

$$3 \times 0.35 \times 3.14 \times 1.2 = 1.32$$

$$7.415 \text{ m}^3$$

$$\text{clou (1) = 0.01}$$

x-x beam

$$21.4 \times 1 \times 1.2 = 25.68$$

$$20.7 \times 0.5 \times 1.2 = 12.42$$

$$38.1 \text{ m}^3$$

blinding

$$1495.9 \text{ m}^2$$

$$1495.9 \text{ m}^2$$

Summary Z2

$$\text{Raft} = 1038.59 \text{ m}^3$$

$$\text{beam} = 38.1 \text{ m}^3$$

$$(30) \text{ Wall} = 8.42 \text{ m}^3$$

$$\text{column (1)} = 7.415 \text{ m}^3$$

$$\text{column (2)} = 0.01 \text{ m}^3$$

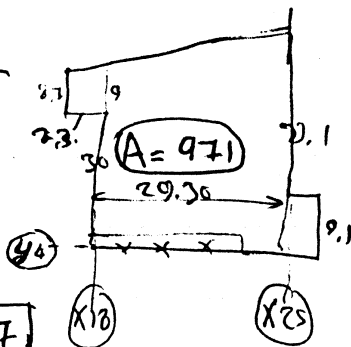
$$\text{blin} = 1495.9 \text{ m}^2 \text{ m}^2$$

Zone 3

Raft / Vertical

$$20 \times 1.7 \times 1.75 = 56.42 \text{ m}^3$$

Raft 70m



$$971 \times 1.7 = 670.7$$

Wall

$$25 \text{ m} \times (6.8 + 2.5 + 8.7 + 2.5) \times 1.75 = 7.80$$

20m

$$1.2(2.5) \times 1.75 = 1.775$$

30m

$$1.3(9 + 1.8 + 7.3 + 2.8) \times 1.75 = 4.93$$

$$1.3(16.8 + 2.3) \times 1.75 = 6.165$$

$$11.1$$

column O = 0.00

$$\text{col } \square = 5 \times 1.7 \times 1.75 = 1.68$$

X-X beam

$$1.3(2.5 + 6.15 + 2.175 + 10.1 + 1.9) \times 1.75 = 1.3(2.5 + 0.9 + 3.7 + 2.5 + 1.7) \times 1.75 = 0.3325$$

$$1.55(6.8) \times 1.75 = 2.8$$

$$1.4(7.7 + 3.3 + 6 + 7.5 + 7.3) \times 1.75 = 13.2$$

$$1.5(4.4 \times 8) \times 1.75 = 13.2$$

$$46.4 \text{ m}^3$$

~~Raft~~

blinding =

$$971 + 80 \times 1 = 979 \text{ m}^2$$

Sum 23

$$\text{Raft Vertical} = 56.42 \text{ m}^3$$

$$= (H) \text{ work} = 679.7 \text{ m}^3$$

$$\text{beam} = 46.4 \text{ m}^3$$

$$25(\text{Wall}) = 7.80 \text{ m}^3$$

$$20(\text{Wall}) = 1.775 \text{ m}^3$$

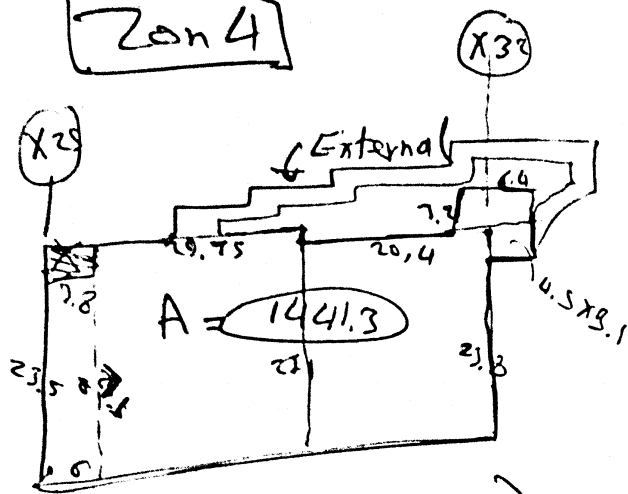
$$30(\text{Wall}) = 11.1 \text{ m}^3$$

$$\text{column O} = 0 \text{ m}^3$$

$$\text{column } \square = 1.68 \text{ m}^3$$

$$\text{blin} = 979 \text{ m}^2$$

Zon 4



Raft.H (100 m)

$$1441.3 \times 1 = \boxed{1441.3} \text{ m}^3$$

Walls

$$(25)(2.8 + 5.9 + 6.7 + 7.4 + 7.4 + 1.7) \times 1.2 = \boxed{8.77}$$

(30) $(22.8 + 9.2)^{1.2} = \boxed{9.36}$

Column D

$$1 \times \sqrt{3} \times 7,14 \times 1,2 = 27,4$$

$$11 \times 1.35 \times 7.14 \times 1.2 = 5.07$$

$$1 \times 10^2 \times 7.14 \times 1.1 = 76$$

6. 27

coluna

soln \square
 $1 \times 1.2 \times 4 \times 1.2 = \boxed{5.8}$

④

X-X beam

(47.5) $44.7 \times 1.2 = 25.48$
(18) $6.7 \times 1.2 = 4.821$

$$(1.8) 6.7 \times 1.2 = 4.821$$

30.3

binding

$$1441.3 + 1158.1 = 1453$$

Sam 24

$$\text{Raft}_{100} = 1441.3 \text{ nm}$$

~~10~~ $\text{Leak} = 30.3$

$$(25)_{\text{Wall}} = 8,37$$

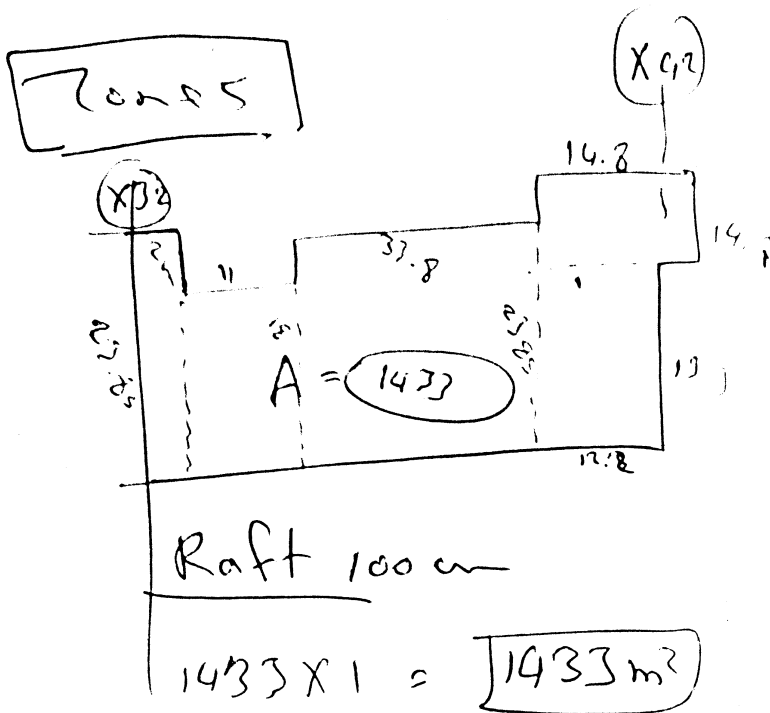
(30) = 9.38

$$\text{col. 0} = 0 \text{ m}^3$$

$$2D = 85$$

$$\text{blind} = 1453 \text{ m}^2$$

5



x x beam

$$40.9 \times 5 \times 1.2 = \boxed{245.4}$$

Walls \Rightarrow

$$(25) = 1.2 \times 0.25 \times (10.8 \times 2 + 10.7 \times 3) = 15.75$$

(10) $(2.5 \pm 1.9) \cdot 2 \times 1.2 = \boxed{1.716}$

$$\text{blindling} = 1433 + 166.8 \times 1 =$$


1449,7 m?

coln 0

$$5 \times 14^2 \times 3.14 \times 1.2 = 3.016$$

$$8 \times 1.5^2 \times 3.14 \times 1.2 = 3.69$$

6.71

color  0,00

Sum 25

Raft vol = 1433 m³

$x \times \text{beam} = 24.55$

$$w_{\text{all}}(25) = 15,75$$

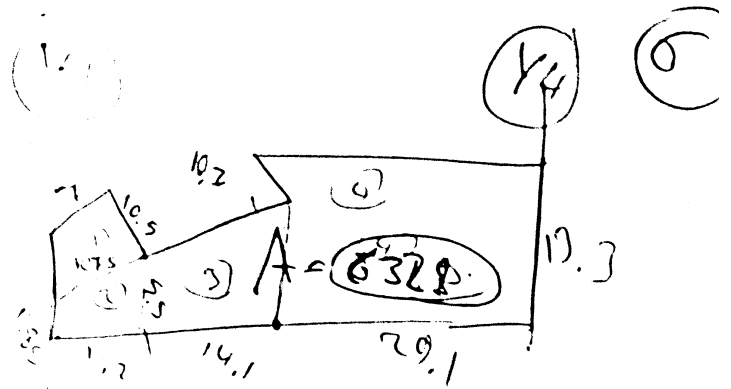
$$u_{all}(20) = 1.776$$

$$\ln A = 6.71$$

Can I

$$\text{blind} = 1450 \text{ m}^2$$

Conf



Raft 40m

~~632.8~~
 $632.8 \times 4 = \boxed{252.8}$

Wall

(20)
 $12 (6.5 \times 2 + 2.9) \times 1.2 = \boxed{5.88}$

$180 (6.5 \times 2 + 2.9 + 2.7 \times 2 + 1.7) \times 1.2$

$130 (30.7 + 1.8 + 17.8 + 10.5 + 5) \times 1.2$

$\boxed{23.7}$

Column $\bigcirc = \therefore$

Column $\square =$

$5 \times 2.5 \times 1.8 \times 1.2 = \boxed{0.9}$

X-X beam

$(1.40)(11) \times 1.2 = 5.28$

$(1.35)(9.6 + 9.3 + 9) \times 1.2 = 10.6$

$(1.45)(24.25 + 7.5 + 7.5) \times 1.2 = 14.9$

$(1.25)(6.3 \times 2) \times 1.2 = 3.78$

$\boxed{34.5}$

blind =

$\frac{252.8}{632} + 130 \times 1.1 = \boxed{266}$

$\boxed{645} \text{ m}^3$

Sum Z 6

Raft 40 = 253 m^3

(20) Wall = 5.88 m^3

(30) = 23.7 m^3

column $\bigcirc = \therefore$

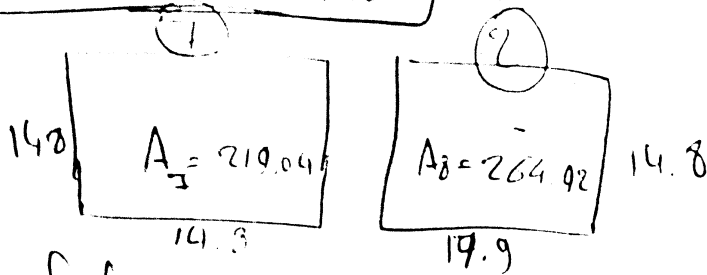
col $\square = 0.9 \text{ m}^3$

X-X beam = 34.5 m^3

blind = 645 m^3 (7) 13

Zone 7 + 8

7



Raft 100 cm

$$(219.04 + 264.92) \times 1 = \boxed{483.96}$$

Walls

$$(20) = (2.5 + 1.8) \times 2 \times 1.5 \times 2$$

$$\boxed{7.58}$$

(30)

$$3 \times (10.8 \times 2 + 10.2 \times 2) \times 1.5 = 18.9$$

$$3 \times (13.9 \times 2 + 10.2 \times 2) \times 1.5 = 71.69$$

(25)

$$\boxed{40.6}$$

(25)

$$25 \times (10.2 \times 2 \times 1.5) = \boxed{7.65}$$

Column = 0.00

X + X beam = 0.00

binding =

$$15 \times 18.1 + 15 \times 15 = 496.5$$

Sum 27 + 28

Raft 100 = 484

X + X = 0.00

Wall 20 = 7.58

Wall 30 = 40.6

Wall 25 = 7.65

Column = 0.00

blind = 497 m²

zon 4 40, 10

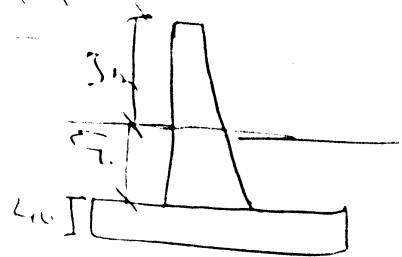
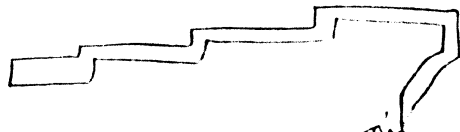
8

External sap structure

zon 4

Sec = 2 - 2

Trench



$$(39 + 2.5 \times 3 + 1 + 0) \times 2.4 \times 1.4 = 44.3$$

$$2.5 \times 3 \times 1 \times 4 = 3$$

Trench 47.16 44.3 m³

Wall 40 cm / 20

$$(36.5 + 2.3 + 2.5 + 8) = 49.3 \times 1.6 \times 1.4 = \boxed{11.8} \text{ m}^3$$

blindin =

$$110.4 + 2.5 \times 3 \times 1 + (39 \times 7) \times 1 = \boxed{127} \text{ m}^3$$

Wall Super

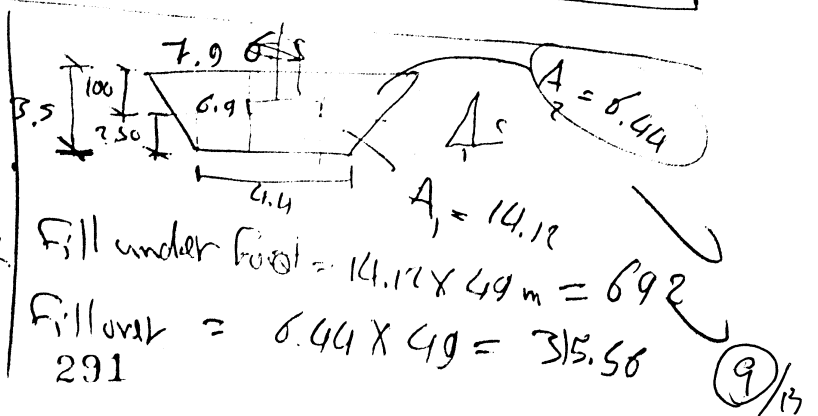
40 / 20

$$\left[\frac{40 - 20}{2} \times 3 \times 49.3 \right] = \boxed{44.77} \text{ m}^3$$

Excavation
under

$$7.5 \times \frac{7.9 + 4.4}{2} \times 49 = 301$$

1054.7



(2/25) Public Toilet / Structure / Sup

(9)

Footings

$$21.4 \times 4 =$$

$$1.4 \times 4 =$$

$$1.9 \times 2 =$$

$$0.5 \times 2 =$$

$$108m \times 1.3 = 32.4 m^2$$

Blinding

$$108 \times 1.2 = 129.6 m^2$$

$$G.B = 2.1 \times 6 =$$

$$= 2.5 \times 3 =$$

$$20.1 \times 1.2 \times 1.4 = 1.6 m^3$$

Blinding

$$2.1 \times 1.2 = 2.52 m^2$$

Walls / Sup

$$20.8 \times 4$$

$$2.1 \times \frac{1.9}{2} = 2.1 \times 0.95 = 2.0 m^2$$

$$2.6 \times 2$$

$$7.2 \times 2$$

$$110m \times 30 \times 1 = 33 m^2$$

Slab on grade 15 cm

$$20 \times 7.25 - 3 \times 20 \times 2 - 2 \times 20 \times 2 + 2 \times 4 \times 5 - 2 \times 2 \times 5$$

$$w.p = 127 m^2$$

$$5cm \text{ bed} = 127 m^2$$

$$15cm \text{ hardcore} = 127 m^2$$

292

$$= 127 m^2$$

(10/13)

Column

$$\begin{aligned}
 S_1 &= 10 \times 2 \times 4 \times \overset{\text{average}}{7.5} = 6.18 \text{ m}^3 \\
 S_2 &= 61 \times 2 \times 6 \times 7.5 = 1.68 \text{ m}^3 \\
 \hline
 &6.18 \text{ m}^3
 \end{aligned}$$

Slab 1.670 m

$$16.8 \times 8.05 = 2 \times 2.75 \times 2.75 = \textcircled{120 \text{ m}^2}$$

Drop beam

$$\begin{aligned}
 B1 &= 16.8 \times 2 \times 2 \times 5 = 3.36 \\
 B2 &= 16.8 \times 2 \times 5 = 1.68 \\
 \hline
 &5.04 \text{ m}^3
 \end{aligned}$$

Summary Toilet

Trench footing	32.4 m ³ ✓	blinding 100m = 129.6 m ³ ✓
Gr.B	= 1.6 m ³ ✓	" 5m = 8 m ³ ✓
sup / walls go	= 33 m ³ ✓	
Slab on grad 150	127 m ³ ✓	
w.p	127 ✓	
hard core	127 ✓	
5cm bed	127 ✓	
column	= 6.18 m ³	
slab kiba	= 120 m ³ ✓	
drop beam	= 5 m ³ ✓	

Final Summary / Sup Structure

مضاف احمد، لکھنؤ، کلکتہ، ممبئی

Add Toilet work

bed area = 127 m²

$$\frac{12}{13}$$

blinding bed 5cm

$$\text{Tower } 1 + 5 + 7 = (10.2 \times 10.2 - 2.5 \times 2) \times 3 = 297.12$$

$$\text{Tower } 8 = (17.3 \times 10.2 - 2.5 \times 2) = 170$$

$$(p.u./\text{se}) \text{ zone } 3 + \text{zone } 6 + \text{zone } 4 \text{ } 30\% = 2059$$

$$\times 2487 \text{ m}^2$$

add 10% =

$$2735 \text{ m}^2$$

base-course 15

$$2735 \text{ m}^2 \times 15 + \underbrace{19}_{\text{Toilet}} = 429 \text{ m}^3$$

slab on grade

$$2735 \times 15 + \underbrace{19}_{\text{Toilet}} = 429 \text{ m}^3$$

①

Raghadan bus Terminal Summary of Terrazzo tile (TT)

	Floor	skirting	Remor.
total 1	56.66	25.8	
total 2	296.38	207.27	
total 3	69.29	37.1	
total 4	69.29	37.1	
total 5	7.95	12	
6	200.1	119.3	
7	278.6	287.2	
8	77	68.2	
9	171.2	141.8	
10	40.7	41.4	
11	312.2	279.8	
12	278.1	248.2	
13	221.6	164.5	
14A+14	63.7 X 2	24.1 X 2	
15	55.1	22.1	
16	239.1	179.3	
17	74.16	33	
18	119.75	97.55	
19	331.2	172.9	
20	381.8	179.2	
21	240	80	
From FTT sum.	186	163.5	
Grand Summary	3833.58	2645.2	

1(L)

Terrazzo tile (TT) ①

Floor	Room no.	Area TT	Skirting TS
1st	F-01	56.66	25.8
(21)	F-02	—	9.1
	F-03	—	9.7
Total (1)	—	56.66	25.8
21 2nd	S-01	66.41	31.3
	S-01	2.88	5.8
	S-04	15.55	14.45
	S-05	17.10	10.90
	S-06	17.10	14.90
	S-07	17.10	14.90
	S-08	17.10	14.90
	S-09	17.7	15.10
	S-10	13.55	14
	S-11	13.55	12.25
	S-12	9.6	11.4
	S-14	70.80	25.40
	S-16	3.79	7.8
	S-17	13.54	11.97
	S-18	14.16	12.2
Total 2	—	206.38	207.27
21 3rd	T-01	66.41	31.3
	T-01	2.88	5.8
Total 3	—	69.29	37.1
			297

TT ②

Floor	Room no.	Area	Skirting
21	F-01	66.41	31.3
4th	F-01	2.88	5.8
Total 4	69.29	69.29	37.1
21	Roof	7.95	12
5th	Stair	53.56	See other
Total 5	—	61.51	12
22	—	—	—
1st	—	—	—
22	—	—	—
2nd	S-19	6.3	9.5
	S-22	76	32
	S-24	13.5	12.15
	S-25	13.5	12.15
	S-27	71.2	30.5
	S-29	7.1	9.8
	S-30	7.1	9.8
	S-32	12.5	13.2
Total 6	—	200.1	119.3
23 Gr	G-14	6.4	7.6
	G-15	12	14
	G-16	12	14
	G-17	12	14
	G-18	12.9	12
	G-19	17.2	14.4
	G-22	9.2	10.3
	G-23	9.2	10.3
	G-24	9.2	10.3
	G-25	9.2	10.3

③

(TT)③

TT④

Floor	Room no.	Area	skirting	Floor	Room no.	Area	sk.
<u>Z3</u> Gr	G-26	21,6	18,5	<u>Z3</u> 2nd	S-36	12,5	11,7
	G-27	11,8	11,4		S-37	10	9,7
	G-28	11,8	11,4		S-41	5	7,8
	G-29	11,8	11,4		S-42	6,2	8,5
	G-30	11,8	11,4		S-39	10	9,7
	G-31	12,1	11,4		S-40	10,2	9,9
	G-32	12,8	11,4		S-41	21,7	11,9
	G-33	14,8	13		S-42	14,2	10,6
	G-34	13,7	20		S-45	20,5	15,6
	G-35	16,4	15,3		S-46	20,5	15,6
	G-36	10,2	14		S-53		
	G-38	10,4	10,5		S-53	20,2	15,1
	G-39	10,1	10,3		S-54	20,2	15,1
Total (Z)	—	278,6	287,2	Total (G)	—	171,2	141,1
<u>Z3</u> 1st	F-04	4,5	7,6	<u>Z4</u> Gr	G-40	10,4	10,5
	F-05	14,9	13,6		G-41	10,1	10,3
	F-10	14,2	10,6		G-42	10,1	10,1
	F-12	2,4	5,2		G-43	10,1	10,1
	F-13	20,5	15,6	Total (10)	—	40,7	41,1
	F-14	20,5	15,6	<u>Z4</u> 1st	F-21 + F20 + F	17,82	15,58
Total (8)	—	77	68,2		F22 → 27 + F15-F19 + F30-F32	17,6 x 14	15,8 x 1
			298		F29 → F28	15,9 x 2	15,2 x 2
				Total (11)		312,2	279,

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$$T_T(7)$$
[illegible]

Kaghadan
 (8) EPOXY on Terazo tile
 (ETT)

Floor	Room no	ETT Area	TS skirting	Floor	Room no	Area	s K.
1st	F-02	7.7	9.1				
(21)	F-03	8.4	9.7				
	S-10	13.55	14				
Total (1)	-	29.65	32.8				
23	G-12	26.7	25.2				
GR							
Total (2)	-	26.7	25.2				
25	G-45	8.8	9.7				
GR	G-46	8.1	9.1				
Total (3)		16.9	18.8				
26	G-01	51.1	26.3				
GR	G-02	28.6	21.8				
Total (4)		79.7	48.1				
Zone 7	Boiler	8.8	9.7				
	Diesel	8.8	9.7				
Total (5)		17.6	18.8				
Zone 8	Boiler	8.9	9.8				
	Diesel	7.36	10				
Total (6)		16.26	19.8				
Summary	total 1-6	186	163.5				

Kagadan Bus T.

7

Kitchen Ceramic

Kitchen Ceiling

Floor	Room no.	Floor Area	Wall finishing	Floor	Room no.	Floor Area	Wall finishing
<u>21</u> 2nd	kitchen S-15	19.35	38.6				
<u>22</u> 2nd	kit. S-23 S-28	19.8 23.3	38.6 33.6				
<u>total</u>		62.5	110.8				

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Ragadan Bus Terminal

Summary of Toilet Ceramic CRT

total	Floor	Wall
total 1	27.58	149.75
total 2	6.7	32.18
total 3	42.7	190.8
total 4	57.8	171.64
total 5	34.38	96.4
total 6	34.38	96.4
total 7	39.8	220.8
total 8	35.2	196.32
total 9	56.38	218.56
total 10	57.53	222.38
total 11	6.7	32.18
total 12	79.5	305
total 13	13.4	64.36
total 14	11.1	50.1
total 15	103	352
G. total	605 608	2299

Ragadan Bus.T.

Ragadan

⑨ / Bathes

CRT ①

Bathes

- CRT ②

Floor	Room no.	Floor Area	Wall skirting
<u>Z1</u> 2nd	S-01 ¹¹	3.35	16.09
	S-13	4.58	25.3
	S-13 ¹	6.16	28.8
	shops bath	2.25 X 6	13.26 X 6
total 1	—	27.58	149.75
<u>Z1</u> 3rd + 4th	bath	3.35 X 2	16.09 X 2
total 2		6.7	32.18
<u>Z2</u> 2nd	S-20/1	3.8	17.2
	S-20/2	2	12.8
	S-20/3	2	12.8
	S-20/4	2.4	13.76
	S-28/1	4.2	16.4
	S-28/2	2	12.3
	S-28/3	2	12.3
	S-28/4	2.7	14.25
	S-30/1	7.8	24.6
	S-30/2	2.9	14.8
	S-30/3	2.9	14.8
	S-31	8	24.6
total 3		42.7	190.6
<u>Z3</u> Gr	G-11/1	38.4	57.6
	G-11/2	1.6 X 12	9.5 X 12
total 4		57.6	171.64
<u>Z3</u> 1st	F-11/1	22.8	32.5
	F-11/2	1.93 X 6	10.65 X 8
total 5		34.38	96.4
			304

Floor	Room no.	Area	Wall skirting
<u>Z3</u> 2nd	S-43	34.38	96.4
	Same as F-11		
total 6	—	34.38	96.4
<u>Z4</u> 1st	shops toilet	2.2 X 18	12.27
total 7		39.6	220.8
<u>Z4</u> 2nd	shop toilets	2.2 X 16	12.27 X
total 8		35.2	196.3
<u>Z5</u> 1st	shop toilets	2.2 X 10	12.27 X
	F-39/1	22.8	32.5
	F-39/2	1.93 X 6	10.65 X
total 9		56.38	218.5
<u>Z5</u> 2nd	S-7/1	22.8	32.5
	S-7/2	1.93 X 6	10.65 X
	shop toilet	2.2 X 9	12.27 X 9
	office =	3.35	16.09
total 10		57.53	222.3
<u>Z5</u> 3rd + 4th	office toilet	3.35 X 2	16.09
total 11		6.7	32.1
<u>Z6</u> Gr	G-05/1	48.3 X 10	116.7 X
	G-05/2	1.5 X 18	9.24 X 1
	G-05/3	2.1 X 2	11 X 2
total 12		79.5	305

⑩ Kagadan Bus Terminal
bathes CRT (3)

Floor	Room no.	Floor Area	Wall skirting
27	offices toilet	3.35x4	16.09x4
Total 13		13.4	64.36
28	offices toilet	3.7x3	16.7x3
Total 14	-	11.1	50.1
29	all	103	352
Public toilet			
Total 15	-	103	352
Grand total		605	2399

305

(11)

Kagadan Bus Terminal

Stone Tile (St)

Floor	Room no.	Area	skirting	Floor	Room no.	Area	sk
Z1	S-02	559	—	Z4	F12		
2nd	walking			1st	from (X27)	270	
total 1	—	559	—		to (X32)		
Z2	S-02	185+185	—		(Void)	88.9	
2nd	walking:	185 +158	—		F-12 from		
	from (X09)	+15.8x2	—		(X32) to		
	to (X18)	=557	—		(X34)	103	
	S-21	44	—	total 6		461.9	
	S-33	53	—				
	S-34	105	—				
total 2	—	759	—	Z4	S44		
Z3	G-37}	432.3	—	2nd	from (X27)	400	
GR	+G-21}		—		to (X34)		
	G-20	12.9	—	total 7		400	
	G-13	14.2	—				
total 3		459.4		Z5	F-12 from		
Z3	F-06			1st	(X34) to	412	
1st	+F-08	526.6			(X41)		
	+F-09		—	2nd	S-44	342	
	F-12 to	103		total 8		754	
	(X27)						
total 4		629.6		Z6	G-03	22	—
Z3	S-38			GR	—		
2nd	+S44	648		total 9		22	
	+S02						
	S45			(Z9) total 10	—	25	
total 5		646	306	stair landings		36	
				Grand total =		4750+	
				total 10		(332)	

(12)

stone tile (2)

Floor	Room no.	Area	skirting	Floor	Room no.	Area	-sk-
Stone tile 150X150 mm							
Z 9	Public toilet	10 m ²					
Patterned stone tile as detail 27, Dry R.B.T. A 1000							
		83 m ²					
stone skirting							
Z 2	S-34	-	43 m				
2nd	Visitor center						

(13)

Ragadan Bus terminal

stair finishes

I) Terrazzo stair treads, 300mm wide

$$\begin{aligned} 1 - \text{zone 7 stair} &= 137 \times 1.3 = 178 \text{ m} \\ 2 - \text{zone 8 stair} &= 110 \times 1.3 = 143 \text{ m} \\ 3 - \text{zone 1 stair} &= 110 \times 1.3 = 143 \text{ m} \\ 4 - \text{zone 5 stair} &= 137 \times 1.3 = 178 \\ \text{total} &= \boxed{642} \end{aligned}$$

II) Terrazzo stair Risers 150-160 mm high

$$\begin{aligned} 1 - \text{zone 7 stair (155mm)} &= 140.40 \\ 2 - \text{zone 8 stair (155mm)} &= 105.30 \\ 3 - \text{zone 1 stair} &= 105.30 \\ 4 - \text{zone 5 stair} &= 140.40 \\ \text{total} &= \boxed{491.4} \end{aligned}$$

III) Terrazzo stair Risers 176mm

$$\begin{aligned} 1 - \text{Zone 7 stair (176mm)} &= 37.7 \\ 2 - \text{zone 8} &= 37.7 \\ 3 - \text{zone 1} &= 37.7 \\ 4 - \text{zone 5} &= 37.7 \\ \text{total} &= \boxed{150.8} \end{aligned}$$

(14) stair finishes (cont'd)

IV terrazzo stair skirting

- 1. zone 7 stair = 98
- 2. " 8 stair = 88
- 3. " 1 stair = 88
- 4. " 5 stair = 98

total 329

V terrazzo stair landing skirting

- 1. zone 7 stair = 65
- 2. " 8 " = 58
- 3. " 1 " = 58
- 4. " 5 " = 65

total 236

(15)

VI Stone stair treads, 300

1 - stair No 2 = $33 \times 1.8 = 59.4 \text{ m/l}$

2 - zone 3 stairs = $3 \times 4 = 12$

$3 \times 5 = 15$

$4 \times 5 = 20$

$5 \times 2.8 = 14$

$6 \times 5 = 30$

$3 \times 3 = 9$

$3 \times 10 = 30$

3 - stair 5 = $29 \times 1.7 = 49.3$

4 - " 6 = $28 \times 2.3 = 64.4$

5 - stair 7 = $32 \times 1.8 = 57.6$

6 - stair 11 = $34 \times 1.6 = 54.4$

7 - stair 8 = $28 \times 2.3 = 64.4$

8 - zone 6 stairs = $3 \times 2.55 = 7.65$

9 - zone 7 → 8 stairs = $= 29 \text{ m}$

10 - zone 9 stairs = $= 3 \text{ m}$

11 - zone 2 stairs = $= 15 \text{ m}$

total

534.15