

# LAPORAN AUDIT

## INTEGRITI STRUKTUR & MENARA

STESEN KOMUNIKASI DAN PERALATAN KOMUNIKASI

KELANTAN DARUL NAIM.



UNTUK URUSAN TENDER SAHAJA

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# STRUCTURAL ANALYSIS

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## STRUCTURAL ANALYSIS OF 45M HEIGHT TOWER 3 LEGGED TELECOMMUNICATION STRUCTURE

### 1.0 Introduction

This report gives the structural analysis of 45m height tower 3 legged telecommunication structure Kelantan ICT Getaway Sdn Bhd. The structure is located at XXX, Kelantan Darul Naim. The structure was analyzed by structural analysis software to support antenna FEM and microwave with the directions as installed by tower owner.

#### 1.1 Loading

The 45m height tower 3 legged is designed to carry the following loads:-

- 1) Self weight
- 2) Wind load on boom
- 3) Wind load on panel antenna of size 2.400x0.350m (Area = 0.700m<sup>2</sup>)
- 4) Wind load on panel RU of size 2.400x0.350m (Area = 0.120m<sup>2</sup>)
- 5) Wind load on panel microwave of diameter size 0.3m (Area = 0.071m<sup>2</sup>)
- 6) Wind load on panel microwave of diameter size 0.6m (Area = 0.283m<sup>2</sup>)
- 7) Wind load on panel microwave of diameter size 0.9m (Area = 0.636m<sup>2</sup>)
- 8) Wind load on panel microwave of diameter size 1.2m (Area = 1.131m<sup>2</sup>)
- 9) Wind load on panel microwave of diameter size 1.5m (Area = 1.767m<sup>2</sup>)

#### 1.2 Standards and Code of Practice

The following standards and codes of practice are adopted during the analysis:

- a) BS 6399, Part 2:1997 (Loading)
- b) BS5950, Part 1:2000 (Structural Use of Steelwork in Building)

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### 3.0 Material

The material used for the structural analysis as following:

#### 45m height tower 3 legged:

- a) The primary section of the structure is an equal angle 120mm width, 100mm height and 10mm thickness.
- b) The secondary section of the structure is an equal angle 100mm width, 100mm height and 10mm thickness.
- c) The primary section of the structure is an equal angle 100mm width, 100mm height and 8mm thickness.
- d) The secondary section of the structure is an equal angle 100mm width, 80mm height and 6mm thickness.
- e) The primary section of the structure is an equal angle 80mm width, 70mm height and 6mm thickness.
- f) The secondary section of the structure is an equal angle 80mm width, 60mm height and 6mm thickness.
- g) The primary section of the structure is an equal angle 80mm width, 60mm height and 5mm thickness.
- h) The secondary section of the structure is an equal angle 50mm width, 50mm height and 6mm thickness.
- i) The secondary section of the structure is an equal angle 50mm width, 50mm height and 5mm thickness.

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The material strength used to build up the boom as following:-

- a) All steel circular hollow sections are in accordance to BS1387:1985 with minimum design strength 195 N/mm<sup>2</sup>.
- b) All plates and steel angles are of Grade S275 to BS EN 10025:1993 with minimum yield strength of 275 N/mm<sup>2</sup>.
- c) Structural bolts are of Grade 5.8 hexagonal bolts per BS3692 with minimum yield strength of 400 N/mm<sup>2</sup> and minimum tensile strength of 500 N/mm<sup>2</sup>. Bolt shall be sufficient long to accommodate nut and washer and no connecting part is in the bolt thread.
- d) Anchor bolts are of Hilti anchor bolts or equal with equivalent specification.
- e) Welding electrodes are of grade E43 to BS4350 with minimum design strength of 215 N/mm<sup>2</sup> to BS63

#### 4.0 Finishing

All steel members are galvanized to BS 729:1971 (Hot Dip Galvanized Casting on Iron and Steel Articles). Galvanizing coating shall be at least 0.086mm (86 micron) thick. All galvanizing coating shall be able to withstand the test set out in BS729.

All connection bolts and anchor bolts shall be galvanized including the threaded portion.

All nuts shall be galvanized with the exception of the threads, which shall be oiled.

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## 5.0 Wind Loading

The wind load on the structure is based on the BS 6399 Part 2 : 1997  
As following

Basic wind speed,  $V_b = 33.33 \text{ m/s}$

Site reference wind speed,  $V_s = V_b \times S_a \times S_d \times S_s \times S_p$

where,

$V_b$  = is the basic wind speed  
 $S_a$  = is an altitude factor  
 $S_d$  = is a direction factor  
 $S_s$  = is a seasonal factor  
 $S_p$  = is a probably factor

$$V_s = 33.33 \times 1.0 \times 1.0 \times 1.0 \times 1.0 \\ = 33.33 \text{ m/s}$$

Effective wind speed,  $V_e = V_s \times S_b$   
 $V_e = 33.33 \times 1.88$   
 $V_e = 62.60 \text{ m/s}$

where  $S_b$  is the terrain and building height factor to be determined from effective height as follows :-

The effective height :-

$$H_e = 1.4 H$$

$$= 1.4 (45)$$

$$= 63.00$$

by interpolation in table 4 :  
 $S_b = 1.88$

Dynamic Pressure  $q_s = 0.613 \times V_e^2$   
 $= 2.41 \text{ kN/m}^2$

Dynamic Pressure = **2.41 kN/m<sup>2</sup>**

Nodal Load on Antenna :-

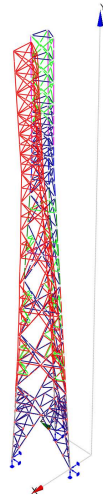
Sector Antenna size 2.000x0.350m	<b>1.68 kN</b>
Sector Antenna size 2.020x0.580m	<b>2.82 kN</b>
Sector RPU size 0.400x0.300m	<b>0.29 kN</b>
Parabolic antenna size 2.0m $\emptyset$	<b>7.56 kN</b>
Parabolic antenna size 1.8m $\emptyset$	<b>6.13 kN</b>
Parabolic antenna size 1.2m $\emptyset$	<b>3.15 kN</b>
Parabolic antenna size 1.5m $\emptyset$	<b>4.25 kN</b>
Parabolic antenna size 0.9m $\emptyset$	<b>1.53 kN</b>
Parabolic antenna size 0.6m $\emptyset$	<b>0.68 kN</b>
Parabolic antenna size 0.3m $\emptyset$	<b>0.17 kN</b>

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Job Number		Sheet 1
Job Title 45M HEIGHT TOWER 3 LEGGED		
Client KELANTAN ICT GETAWAY SDN BHD		
Calcs by DYN	Checked by	Date

### Deflections for Load Case A

Maximum Deflections for Load Combination A:  
 X :162.44 mm at node 19  
 Y :7.40 mm at node 19  
 Z :-70.94 mm at node 20



==== S p a c e - F r a m e   A n a l y s i s   -   P R O K R O N =====  
 Ver W3.0.04 - 29 Jan 2016

==== N O D A L   P O I N T   C O O R D I N A T E S   =====

Node No	X-coord m	Y-coord m	Z-coord m	Node No	X-coord m	Y-coord m	Z-coord m
1	2.063	33.000	4.114	2	3.063	33.000	4.114
3	3.063	33.000	2.382	4	4.063	33.000	4.114
5	4.063	35.000	4.114	6	2.063	35.000	2.382
7	2.063	37.000	4.114	8	3.063	37.000	4.114
9	3.063	37.000	2.120	10	4.063	37.000	4.114
11	4.063	39.000	2.120	12	2.063	39.000	2.382
13	2.063	41.000	4.114	14	3.063	41.000	4.114
15	3.063	41.000	2.382	16	4.063	41.000	4.114
17	4.063	43.000	4.114	18	2.063	43.000	2.382
19	2.063	45.000	4.114	20	3.063	45.000	4.114
21	3.063	45.000	2.382	22	4.063	45.000	4.114
23	3.063	6.000	5.304	24	4.063	6.000	5.304
25	4.406	6.000	0.000	26	3.063	0.000	0.000
27	1.719	6.000	4.980	28	0.563	9.000	4.980
29	3.063	9.000	4.980	30	5.563	9.000	4.980
31	9.063	12.000	4.871	32	1.906	12.000	2.869
33	1.906	12.000	2.869	34	5.188	15.000	4.763
35	3.063	15.000	1.083	36	0.938	15.000	4.763
37	3.063	18.000	4.655	38	2.094	18.000	2.977
39	4.063	21.000	2.977	40	1.313	21.000	4.547
41	3.063	21.000	4.547	42	4.813	21.000	4.547
43	2.219	24.000	3.085	44	3.063	21.000	1.516
45	4.438	24.000	3.085	46	4.438	27.000	4.330
47	1.063	27.000	1.949	48	1.688	27.000	4.330
49	3.063	28.500	4.276	50	2.422	28.500	3.166
51	3.703	28.500	3.166	52	4.250	30.000	4.222
53	1.875	30.000	4.222	54	3.063	30.000	2.165
55	3.063	31.500	4.168	56	3.609	31.500	3.221
57	2.516	31.500	3.221	58	3.063	34.000	4.114
59	3.563	34.000	3.248	60	2.563	34.000	3.248
61	3.063	36.000	4.114	62	2.563	36.000	3.248
63	3.563	36.000	3.248	64	3.063	38.000	4.114
65	2.563	38.000	3.248	66	3.563	38.000	3.248
67	3.063	40.000	4.114	68	3.563	40.000	3.248
69	2.563	40.000	3.248	70	3.063	42.000	4.114
71	3.563	42.000	3.248	72	2.563	42.000	3.248
73	4.063	44.000	4.114	74	2.063	44.000	4.114
75	3.063	44.000	2.382	76	3.063	44.000	4.114
77	2.563	44.000	3.248	78	3.563	44.000	3.248
79	5.750	6.000	5.088	80	5.375	12.000	4.871

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Job Number		Sheet	
Job Title	45M HEIGHT TOWER 3 LEGGED		
Client	KELANTAN ICT GETAWAY SDN BHD		
Calcs by	DYN	Checked by	Date

81	5.000	18.000	4.654	82	4.625	24.000	4.437
83	4.344	28.500	4.276	84	4.156	31.500	4.168
85	0.375	6.000	5.088	86	0.750	12.000	4.871
87	1.125	18.000	4.654	88	1.500	24.000	4.437
89	1.781	28.500	4.276	90	1.969	31.500	4.168
91	3.063	6.000	0.433	92	3.063	12.000	0.863
93	3.063	18.000	1.299	94	3.063	24.000	1.732
95	3.063	28.500	2.057	96	3.063	31.500	2.273
97	0.094	1.500	5.250	98	0.766	1.500	5.250
99	0.430	1.500	4.668	100	2.727	1.500	0.690
101	3.063	1.500	0.108	102	3.398	1.500	0.690
103	5.359	1.500	5.250	104	6.031	1.500	5.250
105	5.695	1.500	4.668	106	4.594	7.000	5.114
107	5.938	3.000	5.196	108	5.266	3.000	4.032
109	1.531	3.000	5.196	110	0.188	3.000	4.199
111	0.859	3.000	4.032	112	2.391	3.000	4.380
113	3.063	3.000	0.217	114	3.734	3.000	4.380
115	3.828	4.500	5.142	116	5.844	4.500	4.142
117	4.836	4.500	3.396	118	2.297	4.500	4.142
119	0.281	4.500	5.142	120	1.289	4.500	3.696
121	2.055	4.500	2.070	122	3.063	4.500	4.032
123	4.070	4.500	2.070	124	4.406	6.000	5.188
125	1.719	6.000	5.088	126	6.000	6.000	4.156
127	2.391	6.000	1.597	128	3.734	6.000	4.156
129	5.078	6.000	3.922	130	5.688	4.000	4.052
131	3.896	7.000	5.052	132	0.438	7.000	5.052
133	2.229	7.000	0.052	134	0.333	7.000	3.500
135	3.063	7.000	0.505	136	0.167	7.000	2.057
137	4.792	7.000	3.500	138	0.958	7.000	2.057
139	0.500	8.000	5.016	140	0.396	8.000	5.016
141	5.625	8.000	5.016	142	0.729	8.000	3.016
143	0.948	8.000	4.240	144	0.063	8.000	0.577
145	2.615	8.000	1.338	146	0.777	8.000	4.240
147	3.510	8.000	1.338	148	0.569	10.500	4.926
149	4.313	10.500	4.926	150	0.056	10.500	4.926
151	1.823	10.500	4.234	152	0.234	10.500	3.924
153	3.063	10.500	0.584	154	2.484	10.500	1.759
155	4.891	10.500	0.744	156	3.641	10.500	1.759
157	0.844	13.500	4.817	158	2.000	13.500	4.817
159	5.281	13.500	4.817	160	4.125	13.500	4.817
161	4.703	13.500	0.817	162	3.641	13.500	1.976
163	3.063	13.500	0.977	164	2.484	13.500	1.976
165	1.125	13.500	3.116	166	5.094	16.500	4.709
167	1.125	16.500	4.709	168	1.031	16.500	4.709
169	2.000	16.500	4.709	170	1.516	16.500	3.870
171	3.063	16.500	1.191	172	2.578	16.500	2.030
173	2.577	16.500	2.030	174	4.609	16.500	3.870
175	0.948	19.500	4.601	176	3.938	19.500	4.601
177	1.181	19.500	4.601	178	1.219	19.500	4.601
179	1.700	19.500	3.762	180	4.422	19.500	3.762
181	3.544	19.500	2.247	182	3.063	19.500	1.407
183	2.578	19.500	2.246	184	4.719	22.500	4.492
185	3.137	22.500	4.492	186	4.328	22.500	3.816
187	2.287	22.500	4.492	188	1.407	22.500	4.493
189	1.797	22.500	3.816	190	2.672	22.500	2.301
191	3.063	22.500	1.624	192	3.453	22.500	2.300
193	4.531	25.500	4.384	194	3.750	25.500	4.384
195	2.375	25.500	4.384	196	1.594	25.500	4.384
197	1.934	25.500	3.708	198	2.672	25.500	2.517
199	3.063	25.500	1.840	200	3.453	25.500	2.518
201	4.141	25.500	3.708	202	2.063	34.000	4.114
203	4.063	34.000	4.114	204	3.063	34.000	2.382
205	2.063	36.000	4.114	206	4.063	36.000	4.114
207	3.063	36.000	2.382	208	2.063	38.000	4.114
209	4.063	38.000	4.114	210	3.063	38.000	2.382

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===== ELEMENT DATA =====

Beam	Secn. type	Fixity	Length m	$\beta$ (°)	Group no.
24-104	EA1	00	1.504	0.00	0
104-107	EA1	00	1.504	0.00	0
107-116	EA1	00	1.504	0.00	0
79-116	EA1	00	1.504	0.00	0
79-130	EA1	00	1.003	0.00	0
130-141	EA1	00	1.003	0.00	0
30-141	EA1	00	1.003	0.00	0

Job Number		Sheet 3	
Job Title		45M HEIGHT TOWER 3 LEGGED	
Client		KELANTAN ICT GETAWAY SDN BHD	
Calcs by	DYN	Checked by	Date

30-148	EA2	00	1.504	0.00	0
80-148	EA2	00	1.504	0.00	0
80-159	EA2	00	1.504	0.00	0
34-159	EA2	00	1.504	0.00	0
34-166	EA2	00	1.504	0.00	0
81-166	EA2	00	1.504	0.00	0
81-175	EA2	00	1.504	0.00	0
42-175	EA2	00	1.504	0.00	0
42-184	EA3	00	1.504	0.00	0
82-184	EA3	00	1.504	0.00	0
82-193	EA3	00	1.504	0.00	0
46-193	EA3	00	1.504	0.00	0
46-83	EA3	00	1.504	0.00	0
52-83	EA3	00	1.504	0.00	0
52-84	EA4	00	1.504	0.00	0
2-84	EA4	00	1.504	0.00	0
2-203	EA4	00	1.000	0.00	0
5-203	EA4	00	1.000	0.00	0
5-206	EA5	00	1.000	0.00	0
8-206	EA5	00	1.000	0.00	0
8-209	EA5	00	1.000	0.00	0
11-209	EA5	00	1.000	0.00	0
11-14	EA5	00	2.000	0.00	0
14-17	EA5	00	2.000	0.00	0
17-73	EA5	00	1.000	0.00	0
20-73	EA5	00	1.000	0.00	0
26-101	EA1	00	1.504	0.00	0
101-113	EA1	00	1.504	0.00	0
113-122	EA1	00	1.504	0.00	0
91-122	EA1	00	1.504	0.00	0
91-135	EA1	00	1.133	0.00	0
135-144	EA1	00	1.133	0.00	0
29-144	EA1	00	1.000	0.00	0
29-153	EA2	00	1.504	0.00	0
92-153	EA2	00	1.504	0.00	0
92-163	EA2	00	1.504	0.00	0
35-163	EA2	00	1.000	0.00	0
35-171	EA2	00	1.504	0.00	0
93-171	EA2	00	1.504	0.00	0
93-182	EA2	00	1.504	0.00	0
44-182	EA2	00	1.504	0.00	0
44-191	EA3	00	1.504	0.00	0
94-191	EA3	00	1.504	0.00	0
94-199	EA3	00	1.504	0.00	0
47-199	EA3	00	1.504	0.00	0
47-95	EA4	00	1.504	0.00	0
54-95	EA4	00	1.504	0.00	0
54-96	EA4	00	1.504	0.00	0
3-96	EA4	00	1.504	0.00	0
3-204	EA4	00	1.000	0.00	0
4-204	EA4	00	1.000	0.00	0
7-207	EA4	00	1.000	0.00	0
7-208	EA4	00	1.000	0.00	0
1-208	EA5	00	1.000	0.00	0
11-110	EA5	00	2.000	0.00	0
15-110	EA5	00	2.000	0.00	0
18-75	EA5	00	1.000	0.00	0
1-75	EA5	00	1.000	0.00	0
2-77	EA1	00	1.504	0.00	0
1-110	EA1	00	1.504	0.00	0
110-119	EA1	00	1.504	0.00	0
85-119	EA1	00	1.504	0.00	0
85-132	EA1	00	1.003	0.00	0
132-133	EA1	00	1.003	0.00	0
28-139	EA1	00	1.003	0.00	0
25-91	EA6	00	2.687	0.00	0
25-79	EA6	00	2.688	0.00	0
86-157	EA2	00	1.504	0.00	0
36-157	EA2	00	1.504	0.00	0
36-168	EA2	00	1.504	0.00	0
87-168	EA2	00	1.504	0.00	0
87-178	EA2	00	1.504	0.00	0
40-178	EA2	00	1.504	0.00	0
40-188	EA3	00	1.504	0.00	0
88-188	EA3	00	1.504	0.00	0
88-196	EA3	00	1.504	0.00	0
48-196	EA3	00	1.504	0.00	0

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Job Number		Sheet 4	
Job Title		45M HEIGHT TOWER 3 LEGGED	
Client		KELANTAN ICT GETAWAY SDN BHD	
Calcs by	DYN	Checked by	Date

48-89	EA3	00	1.504	0.00	0
53-89	EA3	00	1.504	0.00	0
53-90	EA4	00	1.504	0.00	0
1-90	EA4	00	1.504	0.00	0
1-202	EA4	00	1.000	0.00	0
4-202	EA4	00	1.000	0.00	0
4-205	EA5	00	1.000	0.00	0
7-205	EA5	00	1.000	0.00	0
7-208	EA5	00	1.000	0.00	0
10-208	EA5	00	1.000	0.00	0
10-13	EA5	00	2.000	0.00	0
13-16	EA5	00	2.000	0.00	0
16-74	EA5	00	1.000	0.00	0
19-74	EA5	00	1.000	0.00	0
27-91	EA6	00	2.687	0.00	0
27-85	EA6	00	2.688	0.00	0
32-92	EA6	00	2.313	0.00	0
32-86	EA6	00	2.312	0.00	0
38-93	EA6	00	1.938	0.00	0
38-87	EA6	00	1.937	0.00	0
43-94	EA8	00	1.563	0.00	0
43-88	EA8	00	1.561	0.00	0
50-95	EA7	00	1.281	0.00	0
50-89	EA7	00	1.282	0.00	0
57-96	EA6	00	1.094	0.00	0
57-90	EA6	00	1.094	0.00	0
1-3	EA6	00	2.000	0.00	0
60-204	EA6	00	1.000	0.00	0
60-202	EA6	00	1.000	0.00	0
4-6	EA6	00	2.000	0.00	0
62-207	EA6	00	1.000	0.00	0
62-205	EA6	00	1.000	0.00	0
7-9	EA6	00	2.000	0.00	0
65-210	EA6	00	1.000	0.00	0
65-208	EA6	00	1.000	0.00	0
10-11	EA6	00	2.000	0.00	0
13-14	EA6	00	2.000	0.00	0
16-17	EA6	00	2.000	0.00	0
19-20	EA6	00	2.000	0.00	0
33-92	EA6	00	1.312	0.00	0
33-80	EA6	00	1.311	0.00	0
39-93	EA6	00	1.938	0.00	0
39-81	EA6	00	1.937	0.00	0
45-94	EA8	00	1.563	0.00	0
45-82	EA8	00	1.562	0.00	0
51-95	EA7	00	1.282	0.00	0
51-83	EA7	00	1.282	0.00	0
56-96	EA6	00	1.094	0.00	0
56-84	EA6	00	1.094	0.00	0
2-3	EA7	00	2.000	0.00	0
59-204	EA6	00	1.000	0.00	0
59-203	EA6	00	1.000	0.00	0
5-6	EA6	00	2.000	0.00	0
63-207	EA6	00	1.000	0.00	0
63-205	EA6	00	1.000	0.00	0
8-9	EA6	00	2.000	0.00	0
16-11	EA5	00	1.000	0.00	0
16-10	EA5	00	1.000	0.00	0
1-1	EA6	00	2.000	0.00	0
1-2	EA6	00	2.000	0.00	0
2-2	EA6	00	2.000	0.00	0
19-20	EA6	00	2.000	0.00	0
61-18	EA6	00	2.000	0.00	0
31-5	EA6	00	2.000	0.00	0
0-2	EA6	00	2.000	0.00	0
64-208	EA6	00	1.000	0.00	0
64-209	EA6	00	1.000	0.00	0
7-8	EA6	00	2.000	0.00	0
61-205	EA6	00	1.000	0.00	0
61-206	EA6	00	1.000	0.00	0
4-5	EA6	00	2.000	0.00	0
58-202	EA6	00	1.000	0.00	0
58-203	EA6	00	1.000	0.00	0
1-2	EA6	00	2.000	0.00	0
55-90	EA6	00	1.094	0.00	0
55-84	EA6	00	1.093	0.00	0
49-89	EA7	00	1.282	0.00	0

UNTUK URUSAN TENDER SAHAJA

<i>Job Number</i>		<i>Sheet 5</i>	
<i>Job Title</i> 45M HEIGHT TOWER 3 LEGGED			
<i>Client</i> KELANTAN ICT GETAWAY SDN BHD			
<i>Calcs by</i> DYN		<i>Checked by</i>	<i>Date</i>

49-83	EA7	00	1.281	0.00	0
41-88	EA8	00	1.563	0.00	0
41-82	EA8	00	1.562	0.00	0
37-87	EA6	00	1.938	0.00	0
37-81	EA6	00	1.937	0.00	0
31-86	EA6	00	2.313	0.00	0
31-80	EA6	00	2.312	0.00	0
23-85	EA6	00	2.688	0.00	0
23-79	EA6	00	2.687	0.00	0
24-105	EA6	00	1.685	0.00	0
105-108	EA6	00	1.685	0.00	0
108-117	EA6	00	1.685	0.00	0
25-117	EA6	00	1.685	0.00	0
26-102	EA6	00	1.685	0.00	0
102-114	EA6	00	1.685	0.00	0
114-123	EA6	00	1.685	0.00	0
25-123	EA6	00	1.685	0.00	0
25-137	EA6	00	1.303	0.00	0
137-146	EA6	00	1.302	0.00	0
30-146	EA6	00	1.303	0.00	0
29-156	EA6	00	1.953	0.00	0
33-156	EA6	00	1.954	0.00	0
30-155	EA6	00	1.954	0.00	0
33-155	EA6	00	1.953	0.00	0
33-161	EA6	00	1.839	0.00	0
34-161	EA6	00	1.839	0.00	0
33-162	EA6	00	1.839	0.00	0
35-162	EA6	00	1.839	0.00	0
25-138	EA6	00	1.302	0.00	0
138-147	EA6	00	1.302	0.00	0
29-147	EA6	00	1.303	0.00	0
35-173	EA6	00	1.839	0.00	0
39-173	EA6	00	1.839	0.00	0
34-174	EA6	00	1.839	0.00	0
39-174	EA6	00	1.839	0.00	0
39-181	EA6	00	1.837	0.00	0
44-181	EA6	00	1.837	0.00	0
39-180	EA6	00	1.738	0.00	0
42-180	EA6	00	1.738	0.00	0
44-192	EA6	00	1.737	0.00	0
45-192	EA6	00	1.737	0.00	0
42-186	EA6	00	1.738	0.00	0
45-186	EA6	00	1.738	0.00	0
45-200	EA6	00	1.650	0.00	0
47-200	EA6	00	1.651	0.00	0
45-201	EA6	00	1.651	0.00	0
46-201	EA6	00	1.651	0.00	0
46-51	EA7	00	2.036	0.00	0
51-52	EA7	00	1.914	0.00	0
47-52	EA7	00	2.035	0.00	0
51-53	EA6	00	1.914	0.00	0
52-53	EA6	00	1.914	0.00	0
2-56	EA6	00	1.804	0.00	0
4-56	EA6	00	1.914	0.00	0
7-56	EA6	00	1.803	0.00	0
8-56	EA6	00	1.414	0.00	0
3-55	EA6	00	1.414	0.00	0
3-58	EA6	00	1.414	0.00	0
6-59	EA6	00	1.414	0.00	0
5-60	EA6	00	1.414	0.00	0
8-60	EA6	00	1.414	0.00	0
6-63	EA6	00	1.414	0.00	0
9-63	EA6	00	1.414	0.00	0
8-66	EA7	00	1.414	0.00	0
11-66	EA7	00	1.414	0.00	0
9-66	EA7	00	1.414	0.00	0
12-66	EA7	00	1.414	0.00	0
11-68	EA7	00	1.414	0.00	0
14-68	EA7	00	1.414	0.00	0
12-68	EA7	00	1.414	0.00	0
15-68	EA7	00	1.414	0.00	0
14-71	EA7	00	1.414	0.00	0
17-71	EA7	00	1.414	0.00	0
15-71	EA7	00	1.414	0.00	0
18-71	EA7	00	1.414	0.00	0
17-78	EA7	00	1.414	0.00	0
20-78	EA7	00	1.414	0.00	0
18-78	EA7	00	1.414	0.00	0

UNTUK URUSAN TENDER SAHAJA

Job Number		Sheet 6
Job Title	45M HEIGHT TOWER 3 LEGGED	
Client	KELANTAN ICT GETAWAY SDN BHD	
Calcs by	DYN	Checked by
		Date

Job No	EA	00	1.414	0.00	0
21-78	EA7	00	1.414	0.00	0
26-100	EA6	00	1.685	0.00	0
100-112	EA6	00	1.685	0.00	0
112-121	EA6	00	1.685	0.00	0
27-121	EA6	00	1.685	0.00	0
22-99	EA6	00	1.685	0.00	0
99-111	EA6	00	1.685	0.00	0
111-120	EA6	00	1.685	0.00	0
27-120	EA6	00	1.685	0.00	0
27-136	EA6	00	1.302	0.00	0
136-145	EA6	00	1.302	0.00	0
29-145	EA6	00	1.302	0.00	0
27-134	EA6	00	1.303	0.00	0
134-143	EA6	00	1.302	0.00	0
28-143	EA6	00	1.302	0.00	0
28-152	EA6	00	1.953	0.00	0
32-152	EA6	00	1.953	0.00	0
29-154	EA6	00	1.953	0.00	0
32-154	EA6	00	1.954	0.00	0
32-164	EA6	00	1.839	0.00	0
35-164	EA6	00	1.839	0.00	0
32-165	EA6	00	1.839	0.00	0
36-165	EA6	00	1.839	0.00	0
36-170	EA6	00	1.839	0.00	0
38-170	EA6	00	1.839	0.00	0
35-172	EA6	00	1.839	0.00	0
38-172	EA6	00	1.839	0.00	0
38-183	EA6	00	1.737	0.00	0
44-183	EA6	00	1.737	0.00	0
38-179	EA6	00	1.738	0.00	0
40-179	EA6	00	1.738	0.00	0
40-189	EA6	00	1.738	0.00	0
43-189	EA6	00	1.738	0.00	0
44-190	EA6	00	1.738	0.00	0
43-190	EA6	00	1.738	0.00	0
43-198	EA6	00	1.751	0.00	0
47-198	EA6	00	1.751	0.00	0
43-197	EA6	00	1.751	0.00	0
48-197	EA6	00	1.751	0.00	0
47-50	EA6	00	2.731	0.00	0
50-54	EA6	00	1.114	0.00	0
48-50	EA6	00	2.736	0.00	0
50-53	EA6	00	1.914	0.00	0
54-57	EA6	00	1.914	0.00	0
3-57	EA6	00	1.804	0.00	0
57-57	EA6	00	1.914	0.00	0
1-57	EA6	00	1.804	0.00	0
3-60	EA7	00	1.414	0.00	0
6-60	EA7	00	1.414	0.00	0
1-60	EA7	00	1.414	0.00	0
4-60	EA7	00	1.414	0.00	0
6-62	EA7	00	1.414	0.00	0
9-62	EA7	00	1.414	0.00	0
1-62	EA7	00	1.414	0.00	0
4-62	EA7	00	1.414	0.00	0
7-62	EA7	00	1.414	0.00	0
1-65	EA6	00	1.414	0.00	0
7-65	EA7	00	1.414	0.00	0
1-66	EA7	00	1.414	0.00	0
12-66	EA7	00	1.414	0.00	0
15-66	EA7	00	1.414	0.00	0
10-66	EA7	00	1.414	0.00	0
13-69	EA7	00	1.414	0.00	0
15-72	EA7	00	1.414	0.00	0
18-72	EA7	00	1.414	0.00	0
13-72	EA7	00	1.414	0.00	0
16-72	EA7	00	1.414	0.00	0
18-77	EA7	00	1.414	0.00	0
21-77	EA7	00	1.414	0.00	0
16-77	EA7	00	1.414	0.00	0
19-77	EA7	00	1.414	0.00	0
22-98	EA6	00	1.685	0.00	0
98-109	EA6	00	1.685	0.00	0
109-118	EA6	00	1.685	0.00	0
23-118	EA6	00	1.685	0.00	0
24-103	EA6	00	1.685	0.00	0
103-106	EA6	00	1.685	0.00	0
106-115	EA6	00	1.685	0.00	0

UNTUK URUSAN TENDER SAHAJA

<i>Job Number</i>		<i>Sheet 7</i>	
<i>Job Title</i> 45M HEIGHT TOWER 3 LEGGED			
<i>Client</i> KELANTAN ICT GETAWAY SDN BHD			
<i>Calcs by</i> DYN		<i>Checked by</i>	<i>Date</i>

23-115	EA6	00	1.685	0.00	0
23-133	EA6	00	1.303	0.00	0
133-140	EA6	00	1.302	0.00	0
28-140	EA6	00	1.302	0.00	0
28-150	EA2	00	1.504	0.00	0
86-150	EA2	00	1.504	0.00	0
30-149	EA6	00	1.953	0.00	0
31-149	EA6	00	1.953	0.00	0
28-151	EA6	00	1.953	0.00	0
31-151	EA6	00	1.953	0.00	0
23-131	EA6	00	1.302	0.00	0
131-142	EA6	00	1.302	0.00	0
30-142	EA6	00	1.303	0.00	0
31-158	EA6	00	1.839	0.00	0
36-158	EA6	00	1.839	0.00	0
31-160	EA6	00	1.839	0.00	0
34-160	EA6	00	1.839	0.00	0
34-167	EA6	00	1.839	0.00	0
37-167	EA6	00	1.839	0.00	0
36-169	EA6	00	1.839	0.00	0
37-169	EA6	00	1.839	0.00	0
37-177	EA6	00	1.737	0.00	0
40-177	EA6	00	1.737	0.00	0
37-176	EA6	00	1.737	0.00	0
42-176	EA6	00	1.737	0.00	0
42-185	EA6	00	1.738	0.00	0
41-185	EA6	00	1.737	0.00	0
40-187	EA6	00	1.737	0.00	0
41-187	EA6	00	1.738	0.00	0
41-195	EA6	00	1.651	0.00	0
48-195	EA6	00	1.651	0.00	0
41-194	EA6	00	1.651	0.00	0
46-194	EA6	00	1.651	0.00	0
46-49	EA6	00	2.036	0.00	0
49-52	EA6	00	1.914	0.00	0
48-49	EA6	00	2.036	0.00	0
49-53	EA6	00	1.744	0.00	0
53-55	EA6	00	1.744	0.00	0
1-55	EA6	00	1.894	0.00	0
52-55	EA6	00	1.900	0.00	0
2-55	EA6	00	1.800	0.00	0
1-58	EA6	00	1.414	0.00	0
4-58	EA6	00	1.414	0.00	0
2-58	EA6	00	1.414	0.00	0
5-58	EA6	00	1.414	0.00	0
4-61	EA6	00	1.414	0.00	0
7-61	EA6	00	1.414	0.00	0
5-61	EA6	00	1.414	0.00	0
8-61	EA6	00	1.414	0.00	0
7-64	EA7	00	1.414	0.00	0
10-64	EA7	00	1.414	0.00	0
8-64	EA7	00	1.414	0.00	0
11-64	EA7	00	1.414	0.00	0
10-67	EA7	00	1.414	0.00	0
13-67	EA7	00	1.414	0.00	0
11-67	EA7	00	1.414	0.00	0
14-67	EA7	00	1.414	0.00	0
3-69	EA6	00	1.414	0.00	0
5-69	EA6	00	1.414	0.00	0
1-71	EA6	00	1.414	0.00	0
1-72	EA6	00	1.414	0.00	0
1-77	EA7	00	1.414	0.00	0
19-77	EA7	00	1.414	0.00	0
7-78	EA7	00	1.414	0.00	0
0-76	EA7	00	1.414	0.00	0
7-78	EA6	00	0.672	0.00	0
9-110	EA6	00	1.608	0.00	0
9-110	EA6	00	1.609	0.00	0
97-99	EA6	00	0.672	0.00	0
109-110	EA6	00	1.343	0.00	0
109-119	EA6	00	1.953	0.00	0
111-119	EA6	00	1.954	0.00	0
110-111	EA6	00	1.344	0.00	0
118-119	EA6	00	2.016	0.00	0
118-125	EA6	00	1.608	0.00	0
119-125	EA6	00	2.079	0.00	0
119-120	EA6	00	2.016	0.00	0
120-126	EA6	00	1.609	0.00	0

UNTUK URUSAN TENDER SAHAJA

		Job Number				Sheet 8	
		Job Title 45M HEIGHT TOWER 3 LEGGED					
		Client KELANTAN ICT GETAWAY SDN BHD					
		Calcs by DYN		Checked by		Date	
119-126	EA6	00	2.079	0.00	0		
103-104	EA6	00	0.672	0.00	0		
103-107	EA6	00	1.609	0.00	0		
105-107	EA6	00	1.609	0.00	0		
104-105	EA6	00	0.672	0.00	0		
106-107	EA6	00	1.344	0.00	0		
106-116	EA6	00	1.953	0.00	0		
108-116	EA6	00	1.954	0.00	0		
107-108	EA6	00	1.344	0.00	0		
115-116	EA6	00	2.016	0.00	0		
115-124	EA6	00	1.608	0.00	0		
116-124	EA6	00	2.079	0.00	0		
116-117	EA6	00	2.016	0.00	0		
117-129	EA6	00	1.609	0.00	0		
116-129	EA6	00	2.079	0.00	0		
100-101	EA6	00	0.672	0.00	0		
100-113	EA6	00	1.608	0.00	0		
102-113	EA6	00	1.608	0.00	0		
101-102	EA6	00	0.672	0.00	0		
112-113	EA6	00	1.343	0.00	0		
112-122	EA6	00	1.953	0.00	0		
114-122	EA6	00	1.953	0.00	0		
113-114	EA6	00	1.343	0.00	0		
121-122	EA6	00	2.015	0.00	0		
121-127	EA6	00	1.608	0.00	0		
122-127	EA6	00	2.078	0.00	0		
122-123	EA6	00	2.015	0.00	0		
123-128	EA6	00	1.608	0.00	0		
122-128	EA6	00	2.078	0.00	0		
91-136	EA6	00	2.107	0.00	0		
135-136	EA6	00	1.792	0.00	0		
135-138	EA6	00	1.792	0.00	0		
91-138	EA6	00	2.107	0.00	0		
135-145	EA6	00	1.386	0.00	0		
144-145	EA6	00	0.896	0.00	0		
144-147	EA6	00	0.896	0.00	0		
135-147	EA6	00	1.157	0.00	0		
85-134	EA6	00	2.107	0.00	0		
132-134	EA6	00	1.792	0.00	0		
132-133	EA6	00	1.792	0.00	0		
85-133	EA6	00	2.107	0.00	0		
132-143	EA6	00	1.385	0.00	0		
139-143	EA6	00	0.896	0.00	0		
139-140	EA6	00	0.896	0.00	0		
132-140	EA6	00	1.385	0.00	0		
79-137	EA6	00	2.107	0.00	0		
130-137	EA6	00	1.792	0.00	0		
130-131	EA6	00	1.792	0.00	0		
79-131	EA6	00	2.107	0.00	0		
130-146	EA6	00	1.386	0.00	0		
141-146	EA6	00	0.896	0.00	0		
141-142	EA6	00	0.896	0.00	0		
130-142	EA6	00	1.386	0.00	0		
141-145	EA7	00	1.157	0.00	0		
101-145	EA7	00	1.839	0.00	0		
101-144	EA7	00	1.839	0.00	0		
148-144	EA7	00	1.156	0.00	0		
143-145	EA7	00	1.156	0.00	0		
91-146	EA7	00	1.839	0.00	0		
91-144	EA7	00	1.839	0.00	0		
151-144	EA7	00	1.156	0.00	0		
151-141	EA7	00	1.157	0.00	0		
86-141	EA7	00	1.839	0.00	0		
86-152	EA7	00	1.839	0.00	0		
150-152	EA7	00	1.157	0.00	0		
86-158	EA7	00	1.953	0.00	0		
157-158	EA7	00	1.156	0.00	0		
157-160	EA7	00	1.156	0.00	0		
86-165	EA7	00	1.953	0.00	0		
80-160	EA7	00	1.953	0.00	0		
159-160	EA7	00	1.156	0.00	0		
159-161	EA7	00	1.156	0.00	0		
80-161	EA7	00	1.953	0.00	0		
93-172	EA7	00	1.738	0.00	0		
171-172	EA7	00	0.969	0.00	0		
171-173	EA7	00	0.969	0.00	0		
93-173	EA7	00	1.737	0.00	0		
87-170	EA7	00	1.737	0.00	0		

UNTUK URUSAN TENDER SAHAJA

Job Number		Sheet 9
Job Title 45M HEIGHT TOWER 3 LEGGED		
Client KELANTAN ICT GETAWAY SDN BHD		
Calcs by DYN	Checked by	Date

168-170	EA7	00	0.969	0.00	0
168-169	EA7	00	0.969	0.00	0
87-169	EA7	00	1.737	0.00	0
81-167	EA7	00	1.737	0.00	0
166-167	EA7	00	0.969	0.00	0
166-174	EA7	00	0.969	0.00	0
81-174	EA7	00	1.737	0.00	0
81-176	EA7	00	1.839	0.00	0
175-176	EA7	00	0.968	0.00	0
175-180	EA7	00	0.969	0.00	0
81-180	EA7	00	1.838	0.00	0
87-177	EA7	00	1.839	0.00	0
177-178	EA7	00	0.969	0.00	0
178-179	EA7	00	0.969	0.00	0
87-179	EA7	00	1.838	0.00	0
92-164	EA7	00	1.954	0.00	0
163-164	EA7	00	1.157	0.00	0
162-163	EA7	00	1.157	0.00	0
92-162	EA7	00	1.954	0.00	0
93-183	EA7	00	1.839	0.00	0
182-183	EA7	00	0.969	0.00	0
181-182	EA7	00	0.969	0.00	0
93-181	EA7	00	1.839	0.00	0
94-190	EA7	00	1.651	0.00	0
190-191	EA7	00	0.782	0.00	0
191-192	EA7	00	0.780	0.00	0
94-192	EA7	00	1.651	0.00	0
88-197	EA7	00	1.737	0.00	0
196-197	EA7	00	0.780	0.00	0
195-196	EA7	00	0.781	0.00	0
88-195	EA7	00	1.737	0.00	0
82-194	EA7	00	1.737	0.00	0
193-194	EA7	00	0.781	0.00	0
193-201	EA7	00	0.780	0.00	0
82-201	EA7	00	1.737	0.00	0
94-198	EA7	00	1.737	0.00	0
198-199	EA7	00	0.780	0.00	0
199-200	EA7	00	0.780	0.00	0
94-200	EA7	00	1.737	0.00	0

----- SECTION PROPERTIES -----

Section : EA1 Section designation: 100x100x10 A1						
A	Ay	Ixx	Iyy	J	Material	
m^2	m^2	m^4	m^4	m^4		
2.520E-3	0.000	0.000	1.314E-6	8.511E-9	Steel:300W	
Section : EA2 Section designation: 100x100x10 A1						
A	Ay	Ixx	Iyy	J	Material	
m^2	m^2	m^4	m^4	m^4		
1.930E-3	0.000	0.000	1.77E-6	7.03E-9	Steel:300W	
Section : EA3 Section designation: 100x100x8 A1						
A	Ay	Ixx	Iyy	J	Material	
m^2	m^2	m^4	m^4	m^4		
1.310E-3	0.000	0.000	1.45E-6	3.76E-9	Steel:300W	
Section : EA4 Section designation: 80x80x6 A1						
A	Ay	Ixx	Iyy	J	Material	
m^2	m^2	m^4	m^4	m^4		
9.350E-6	0.000	0.000	5.58E-9	1.30E-9	Steel:300W	
Section : EA5 Section designation: 70x70x6 A1						
A	Ay	Ixx	Iyy	J	Material	
m^2	m^2	m^4	m^4	m^4		
8.130E-6	0.000	0.000	3.69E-9	1.12E-9	Steel:300W	

UNTUK URUSAN TENDER SAHAJA



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Section : EA6 Section designation: 60x60x6 A1

A	Ay	Ax	Ixx	Iyy	J	Material
m^2	m^2	m^2	m^4	m^4	m^4	
691.0E-6	0.000	0.000	228E-9	228E-9	9.36E-9	Steel:300W

Section : EA7 Section designation: 50x50x5 A1

A	Ay	Ax	Ixx	Iyy	J	Material
m^2	m^2	m^2	m^4	m^4	m^4	
480.0E-6	0.000	0.000	110E-9	110E-9	4.58E-9	Steel:300W

Section : EA8 Section designation: 60x60x5 A1

A	Ay	Ax	Ixx	Iyy	J	Material
m^2	m^2	m^2	m^4	m^4	m^4	
582.0E-6	0.000	0.000	194E-9	194E-9	5.64E-9	Steel:300W

=====  
MATERIALS  
=====

Designation	E	poisson	Density	Exp. Coeff
	kPa		kN/m^3	
Steel:300W	206.0E6	0.30	77.01	.70

=====  
SUPPORT DATA  
=====

Node	Fixity	Prescribed displacements						
		X	Y	Z	X-Rot	Y-Rot	Z-Rot	Orien
		m	m	m	rad.	rad.	rad.	
22	XYZxyz	0.00	0.00	0.00	0.00	0.00	0.00	0
24	XYZxyz	0.00	0.00	0.00	0.00	0.00	0.00	0
26	XYZxyz	0.00	0.00	0.00	0.00	0.00	0.00	0

Node	Fixity	Spring constants					
		X	Y	Z	X-Rot	Y-Rot	Z-Rot
		kN/m	kN/m	kN/m	kNm/rad	kNm/rad	kNm/rad

=====  
LOADS  
=====

Load Case	Description
1	WIND LOAD SIZE
4	WIND LOAD SIZE
2	WIND LOAD SIZE
3	WIND LOAD SIZE

Admission height of load case : 1

=====  
LOAD CASE 1  
=====

\*\*\*\*\* JOINT LOADS \*\*\*\*\*

Node	Fx	Fy	Fz	Mx	My	Mz
	kN	kN	kN	kNm	kNm	kNm
17	1.68	0.00	0.00	0.00	0.00	0.00
14	1.68	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	1.68	0.00	0.00	0.00
14	0.29	0.00	0.00	0.00	0.00	0.00
24	1.68	0.00	0.00	0.00	0.00	0.00
34	1.68	0.00	1.68	0.00	0.00	0.00
18	0.00	0.00	1.68	0.00	0.00	0.00
15	1.68	0.00	0.00	0.00	0.00	0.00
12	1.68	0.00	0.00	0.00	0.00	0.00
6	1.68	0.00	0.00	0.00	0.00	0.00
95	1.68	0.00	1.68	0.00	0.00	0.00
16	0.00	0.00	1.68	0.00	0.00	0.00
13	0.00	0.00	1.68	0.00	0.00	0.00
172	1.68	0.00	0.00	0.00	0.00	0.00

UNTUK URUSAN TENDER SAHAJA

Job Number	KOK LANAS		Sheet	11
Job Title	45M HEIGHT TOWER 3 LEGGED			
Client	KELANTAN ICT GETAWAY SDN BHD			
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=====  
 ===== LOAD CASE 4 =====  
 =====

RRU SIZE

\*\*\* POINT LOADS \*\*\*

Node	Fx kN	Fy kN	Fz kN	Mx kNm	My kNm	Mz kNm
11	0.29	0.00	0.29	0.00	0.00	0.00
84	0.29	0.00	0.00	0.00	0.00	0.00
193	1.53	0.00	0.00	0.00	0.00	0.00
34	0.29	0.00	0.29	0.00	0.00	0.00
12	0.29	0.00	0.29	0.00	0.00	0.00
210	0.29	0.00	0.00	0.00	0.00	0.00
6	0.29	0.00	0.00	0.00	0.00	0.00
3	0.29	0.00	0.29	0.00	0.00	0.00
205	0.29	0.00	0.29	0.00	0.00	0.00
172	0.29	0.00	0.00	0.00	0.00	0.00

=====  
 ===== LOAD CASE 2 =====  
 =====

MICROWAVE SIZE

\*\*\* POINT LOADS \*\*\*

Node	Fx kN	Fy kN	Fz kN	Mx kNm	My kNm	Mz kNm
206	1.53	0.00	0.00	0.00	0.00	0.00
2	1.53	0.00	0.00	0.00	0.00	0.00
2	3.15	0.00	0.00	0.00	0.00	0.00
52	1.53	0.00	0.00	0.00	0.00	0.00
83	1.53	0.00	0.00	0.00	0.00	0.00
46	0.00	0.00	0.17	0.00	0.00	0.00
166	3.15	0.00	0.00	0.00	0.00	0.00
204	0.68	0.00	0.00	0.00	0.00	0.00
204	0.68	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.15	0.00	0.00	0.00
207	0.00	0.00	0.15	0.00	0.00	0.00
57	3.15	0.00	0.00	0.00	0.00	0.00
53	0.00	0.00	0.15	0.00	0.00	0.00
53	0.17	0.00	0.00	0.00	0.00	0.00
196	0.17	0.00	0.00	0.00	0.00	0.00
196	3.15	0.00	0.00	0.00	0.00	0.00
50	0.17	0.00	0.00	0.00	0.00	0.00
50	0.17	0.00	0.00	0.00	0.00	0.00
192	0.17	0.00	0.00	0.00	0.00	0.00
14	0.17	0.00	0.00	0.00	0.00	0.00

=====  
 ===== LOAD CASE 3 =====  
 =====

WIND LOAD

\*\*\* BEAM ELEMENT LOADS \*\*\*

Element	Dir	P kN	Z m	Wl kN/m	Wr kN/m	a (left) m	Length m	dT °C
6-10	Z	0.00	0.00	-2.41	-2.41	0.00	1.00	0.00
6-10	Z	0.00	0.00	-2.41	-2.41	0.00	1.00	0.00
1-10	Z	0.00	0.00	-2.41	-2.41	0.00	1.00	0.00
1-10	Z	0.00	0.00	-2.41	-2.41	0.00	1.00	0.00
2-10	Z	0.00	0.00	-2.41	-2.41	0.00	1.00	0.00
2-10	Z	0.00	0.00	-2.41	-2.41	0.00	1.00	0.00
2-15	Z	0.00	0.00	-2.41	-2.41	0.00	2.00	0.00
5-18	Z	0.00	0.00	-2.41	-2.41	0.00	2.00	0.00
18-75	Z	0.00	0.00	-2.41	-2.41	0.00	1.00	0.00
21-75	Z	0.00	0.00	-2.41	-2.41	0.00	1.00	0.00

=====  
 ===== LOAD COMBINATIONS =====  
 =====

Load Comb Description

A

Comb. Load factor for each load case: Ultimate Limit State

UNTUK URUSAN TENDER SAHAJA

Job Number		Sheet 12
Job Title	45M HEIGHT TOWER 3 LEGGED	
Client	KELANTAN ICT GETAWAY SDN BHD	
Calcs by	DYN	Checked by
		Date

```

1      4      2      3
A      1.00   1.00   1.00   1.00

Comb.  Load factor for each load case: Serviceability Limit State

```

```

1      4      2      3
A      1.00   1.00   1.00   1.00

```

```

===== OWN WEIGHT ACCELERATIONS =====
Direction Acceleration (g)
X           0.00
Y          -1.00
Z           0.00

```

```

===== OUTPUT: LINEAR ANALYSIS =====
===== NODAL POINT DISPLACEMENTS at 5 =====

```

Node	Lcase	X-disp. mm	Y-disp. mm	Z-disp. mm	X-rot. rad	Y-rot. rad	Z-rot. rad
1	A	90.53	6.26	-9.33	-0.0030	-0.0005	-0.0054
2	A	90.51	-4.63	-9.71	-0.0027	0.0002	-0.0055
3	A	90.58	-3.79	-9.51	-0.0027	0.0010	-0.0053
4	A	102.85	6.71	-11.12	-0.0041	0.0002	-0.0058
5	A	101.78	-4.33	-11.42	-0.0031	0.0001	-0.0058
6	A	101.47	4.11	-11.66	-0.0030	0.0002	-0.0058
7	A	113.60	1.17	-11.65	-0.0034	0.0002	-0.0060
8	A	113.55	-1.17	-11.65	-0.0034	0.0001	-0.0059
9	A	113.21	1.51	-11.77	-0.0034	0.0002	-0.0060
10	A	125.67	1.21	-14.50	-0.0033	0.0002	-0.0062
11	A	125.67	-4.81	-14.84	-0.0036	0.0001	-0.0061
12	A	125.87	-4.92	-14.72	-0.0043	0.0001	-0.0061
13	A	137.18	7.18	-15.63	-0.0037	0.0003	-0.0062
14	A	137.17	4.11	-15.19	-0.0037	0.0003	-0.0061
15	A	137.17	-4.11	-15.95	-0.0034	0.0003	-0.0061
16	A	150.21	1.40	-16.89	-0.0036	0.0004	-0.0061
17	A	150.21	-4.80	-17.59	-0.0037	0.0003	-0.0061
18	A	149.64	-5.02	-16.26	-0.0039	0.0003	-0.0061
19	A	162.44	7.40	-17.25	-0.0040	0.0004	-0.0063
20	A	162.44	-4.80	-17.94	-0.0039	0.0003	-0.0059
21	A	171.84	5.03	-17.60	-0.0014	0.0003	-0.0061
22	A	171.84	-5.03	-17.60	-0.0014	0.0003	-0.0061
23	A	0.00	0.00	0.00	0.0000	0.0000	0.0000
24	A	1.62	-0.08	-0.18	0.0000	0.0000	-0.0007
25	A	0.00	0.00	0.00	0.0000	0.0000	0.0000
26	A	1.52	-0.18	0.17	-0.0002	0.0000	-0.0007
27	A	0.00	0.00	0.00	0.0000	0.0000	0.0000
28	A	2.88	0.06	0.16	-0.0002	0.0000	-0.0006
29	A	6.24	3.33	-2.05	-0.0006	-0.0004	-0.0020
30	A	2.64	-1.15	-1.42	-0.0005	0.0013	-0.0011
31	A	5.37	-2.84	1.85	0.0002	-0.0009	-0.0017
32	A	10.12	0.62	-1.69	-0.0005	0.0002	-0.0018
33	A	11.61	1.80	-1.05	0.0001	-0.0003	-0.0028
34	A	11.22	-3.45	-2.40	-0.0011	-0.0005	-0.0028
35	A	17.93	-4.52	-3.69	-0.0006	-0.0007	-0.0027
36	A	17.64	-1.99	-3.76	-0.0005	0.0083	-0.0025
37	A	17.35	5.33	-4.03	-0.0007	-0.0022	-0.0026
38	A	25.25	0.13	-4.98	-0.0009	0.0010	-0.0028
39	A	31.07	1.33	-2.38	-0.0028	-0.0022	0.0004
40	A	28.34	-2.97	-7.40	-0.0001	-0.0015	-0.0017
41	A	36.61	6.25	-9.23	-0.0015	-0.0009	-0.0043
42	A	46.49	0.87	-11.87	-0.0015	0.0001	-0.0037
43	A	34.95	-5.20	-6.12	-0.0004	-0.0018	-0.0038
44	A	46.69	1.94	-11.70	-0.0012	0.0001	-0.0038
45	A	33.32	-2.60	-9.47	-0.0010	0.0031	-0.0032
46	A	46.45	-4.64	-12.09	-0.0015	0.0000	-0.0041
47	A	60.51	-5.33	-17.06	-0.0016	0.0003	-0.0049
48	A	59.67	-3.22	-16.76	-0.0018	0.0011	-0.0047
49	A	60.37	6.71	-16.92	-0.0019	-0.0008	-0.0051
50	A	67.24	0.53	-19.01	-0.0015	0.0004	-0.0046
51	A	68.25	1.74	-18.47	-0.0016	0.0003	-0.0049
52	A	67.50	-4.02	-19.75	-0.0019	-0.0001	-0.0047
53	A	74.34	-5.03	-21.74	-0.0018	-0.0006	-0.0049
54	A	75.13	6.49	-21.74	-0.0020	-0.0015	-0.0052
55	A	73.69	-3.40	-22.76	-0.0021	0.0029	-0.0048
56	A	82.21	0.96	-24.71	-0.0028	0.0009	-0.0052

UNTUK URUSAN TENDER SAHAJA

Job Number					Sheet 13		
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Client		KELANTAN ICT GETAWAY SDN BHD					
Calcs by		DYN		Checked by		Date	

56	A	82.69	-4.42	-26.01	-0.0024	-0.0005	-0.0053
57	A	85.29	1.22	-23.41	-0.0026	0.0004	-0.0048
58	A	96.03	0.89	-32.24	-0.0029	0.0002	-0.0056
59	A	95.94	-4.33	-32.40	-0.0028	0.0001	-0.0056
60	A	95.94	1.25	-32.11	-0.0029	0.0002	-0.0055
61	A	107.60	1.07	-38.41	-0.0032	0.0002	-0.0058
62	A	107.45	1.24	-38.29	-0.0031	0.0002	-0.0058
63	A	107.48	-4.59	-38.49	-0.0032	0.0002	-0.0059
64	A	119.57	1.19	-45.14	-0.0035	0.0002	-0.0060
65	A	119.44	1.27	-45.03	-0.0033	0.0002	-0.0060
66	A	119.42	-4.75	-45.22	-0.0034	0.0002	-0.0061
67	A	131.80	1.27	-52.26	-0.0036	0.0002	-0.0061
68	A	131.68	-4.85	-52.41	-0.0035	0.0002	-0.0062
69	A	131.56	1.23	-52.18	-0.0035	0.0003	-0.0061
70	A	144.11	1.29	-59.60	-0.0037	0.0003	-0.0061
71	A	143.83	-4.90	-59.72	-0.0037	0.0003	-0.0061
72	A	143.85	1.20	-59.40	-0.0036	0.0003	-0.0061
73	A	156.39	-4.80	-67.19	-0.0036	0.0003	-0.0061
74	A	156.30	7.40	-66.49	-0.0036	0.0004	-0.0060
75	A	155.74	-5.02	-68.87	-0.0042	0.0003	-0.0061
76	A	156.34	1.30	-66.86	-0.0036	0.0004	-0.0061
77	A	155.90	1.18	-66.83	-0.0039	0.0005	-0.0061
78	A	156.18	-4.92	-67.28	-0.0039	0.0004	-0.0061
79	A	1.62	-2.06	-0.13	0.0001	-0.0001	-0.0001
80	A	10.12	-3.81	-1.76	-0.0001	-0.0001	-0.0019
81	A	25.27	-4.95	-5.62	-0.0013	-0.0010	-0.0026
82	A	46.50	-5.38	-12.11	-0.0022	0.0001	-0.0039
83	A	67.26	-5.20	-19.59	-0.0035	0.0001	-0.0044
84	A	82.22	-4.84	-25.71	-0.0031	0.0001	-0.0055
85	A	1.63	2.42	0.00	-0.0001	0.0000	-0.0007
86	A	10.13	4.47	-1.22	-0.0001	0.0006	-0.0017
87	A	25.26	5.92	-5.11	-0.0011	-0.0025	-0.0030
88	A	46.52	6.67	1.11	-0.0009	-0.0001	-0.0033
89	A	67.25	6.66	9.11	-0.0015	-0.0009	-0.0047
90	A	82.22	6.41	2.11	-0.0027	-0.0032	-0.0049
91	A	1.68	-0.88	0.00	-0.0003	0.0001	-0.0002
92	A	10.23	-1.63	-1.84	-0.0004	0.0011	-0.0023
93	A	25.37	-2.37	-1.58	-0.0009	0.0051	-0.0020
94	A	46.23	-2.09	-2.77	-0.0012	0.0004	-0.0042
95	A	66.00	3.14	-3.46	-0.0020	0.0014	-0.0045
96	A	81.41	-1.77	-5.46	-0.0021	0.0036	-0.0053
97	A	-1.31	-1.71	1.10	0.0006	0.0002	0.0005
98	A	-1.31	0.99	0.89	0.0004	0.0003	0.0002
99	A	-1.31	1.00	1.10	0.0003	0.0000	0.0002
100	A	0.85	-0.00	0.76	0.0004	-0.0004	-0.0005
101	A	0.11	0.27	0.22	0.0005	-0.0004	-0.0005
102	A	0.00	0.54	1.05	0.0002	-0.0004	-0.0004
103	A	-1.11	-0.84	-0.75	-0.0004	0.0002	0.0002
104	A	-1.11	-0.64	-0.93	-0.0005	0.0002	0.0004
105	A	-1.11	-0.93	-0.90	-0.0003	0.0001	0.0002
106	A	-0.45	-0.73	-0.72	0.0002	-0.0001	-0.0005
107	A	-0.45	-1.13	-0.76	0.0003	0.0001	-0.0007
108	A	-0.67	-0.83	-0.64	0.0001	0.0002	-0.0006
109	A	-0.51	0.68	0.69	-0.0004	0.0001	-0.0007
110	A	-0.50	1.30	0.86	-0.0005	0.0001	-0.0010
111	A	-0.52	0.81	0.85	-0.0002	0.0000	-0.0009
112	A	0.81	-0.31	0.74	-0.0001	-0.0001	-0.0003
113	A	1.04	-0.48	0.88	-0.0002	-0.0003	-0.0002
114	A	0.64	-0.56	1.12	-0.0002	-0.0003	-0.0003
115	A	0.60	-0.39	-0.39	0.0003	-0.0001	-0.0007
116	A	0.60	-1.59	-0.29	0.0003	0.0000	-0.0006
117	A	0.35	-0.49	-0.14	0.0003	0.0002	-0.0008
118	A	0.88	0.13	0.08	-0.0003	0.0001	-0.0007
119	A	0.88	1.83	0.24	-0.0002	0.0000	-0.0007
120	A	0.94	0.25	0.27	-0.0003	-0.0001	-0.0008
121	A	1.24	-0.18	0.51	-0.0002	0.0000	-0.0003
122	A	1.31	-0.67	0.55	-0.0002	-0.0001	-0.0002
123	A	0.95	-0.39	0.76	-0.0005	-0.0002	-0.0003
124	A	1.50	-0.73	0.02	0.0002	-0.0001	-0.0006
125	A	2.14	0.60	-0.31	-0.0003	0.0001	-0.0009
126	A	2.20	0.67	-0.35	-0.0004	-0.0001	-0.0009
127	A	1.63	-0.33	0.32	-0.0001	0.0000	-0.0003
128	A	1.48	-0.45	0.20	-0.0003	-0.0002	-0.0003
129	A	1.48	-0.78	0.16	0.0002	0.0001	-0.0007
130	A	2.40	-2.36	0.52	0.0004	-0.0002	-0.0008
131	A	2.40	-0.62	0.08	0.0003	-0.0002	-0.0009
132	A	2.60	2.77	-0.45	-0.0005	-0.0001	-0.0010
133	A	2.60	0.60	-0.36	-0.0004	0.0000	-0.0010

UNTUK URUSAN TENDER SAHAJA

Job Number						Sheet 14	
Job Title		45M HEIGHT TOWER 3 LEGGED					
Client		KELANTAN ICT GETAWAY SDN BHD					
Calcs by		DYN			Checked by		Date

134	A	2.78	0.76	-0.35	-0.0005	-0.0001	-0.0012
135	A	1.83	-0.96	-0.28	-0.0003	0.0003	-0.0002
136	A	2.25	-0.17	-0.04	-0.0002	0.0002	-0.0004
137	A	2.51	-0.73	0.45	0.0004	0.0000	-0.0011
138	A	2.00	-0.45	-0.37	-0.0007	0.0000	-0.0004
139	A	3.92	3.09	-1.04	-0.0009	-0.0002	-0.0019
140	A	3.90	1.53	-0.98	-0.0008	-0.0001	-0.0017
141	A	3.45	-2.63	1.03	0.0009	-0.0004	-0.0015
142	A	3.44	-1.37	0.77	0.0007	-0.0003	-0.0014
143	A	4.12	1.66	-0.91	-0.0007	-0.0002	-0.0019
144	A	2.08	-1.06	-0.70	-0.0006	0.0005	-0.0002
145	A	2.44	-0.50	-0.50	-0.0005	0.0004	-0.0004
146	A	3.71	-1.46	0.85	0.0006	-0.0002	-0.0016
147	A	2.42	-0.74	-0.89	-0.0007	0.0003	-0.0005
148	A	7.14	-3.37	-0.28	-0.0016	-0.0001	-0.0014
149	A	7.13	-1.63	-0.15	-0.0015	0.0001	-0.0016
150	A	7.49	3.96	-1.48	0.0003	-0.0003	-0.0010
151	A	7.48	2.58	-1.59	0.0004	0.0001	-0.0011
152	A	8.10	3.27	-1.11	0.0001	-0.0003	-0.0011
153	A	6.52	-1.41	-1.26	0.0000	0.0005	-0.0029
154	A	6.97	0.11	-1.01	0.0000	0.0005	-0.0029
155	A	7.48	-3.70	-0.51	-0.0014	-0.0003	-0.0015
156	A	7.02	-2.64	-1.52	-0.0002	0.0004	-0.0027
157	A	12.76	4.98	-2.47	-0.0003	-0.0011	-0.0024
158	A	12.75	2.31	-1.93	-0.0003	-0.0002	-0.0022
159	A	13.17	-4.23	-3.14	-0.0006	-0.0005	-0.0027
160	A	13.16	-1.35	-3.12	-0.0007	0.0000	-0.0026
161	A	14.13	-3.41	-3.71	-0.0007	-0.0011	-0.0027
162	A	16.62	-2.46	-4.07	-0.0017	-0.0021	-0.0030
163	A	13.80	-1.83	-2.45	-0.0007	0.0002	-0.0022
164	A	16.57	0.08	-0.85	0.0000	0.0011	-0.0040
165	A	14.41	2.88	-1.50	-0.0000	0.0006	-0.0027
166	A	21.27	-4.77	-5.05	0.0000	0.0002	-0.0023
167	A	21.23	-2.51	-5.09	-0.0000	0.0000	-0.0023
168	A	20.62	5.39	-4.44	-0.0000	0.0003	-0.0024
169	A	20.61	3.29	-2.49	-0.0000	-0.0000	-0.0025
170	A	24.40	3.84	-2.11	-0.0008	-0.0053	-0.0025
171	A	21.68	-2.21	-4.11	-0.0006	0.0106	-0.0017
172	A	33.61	-0.95	2.68	-0.0004	0.0145	-0.0032
173	A	27.08	-2.65	-3.30	0.0002	0.0043	-0.0006
174	A	22.69	-4.13	-3.84	-0.0006	-0.0021	-0.0025
175	A	29.33	-5.44	-4.19	0.0000	-0.0009	-0.0031
176	A	29.33	2.12	-6.55	-0.0004	-0.0001	-0.0031
177	A	29.92	3.18	-5.22	0.0012	-0.0006	-0.0036
178	A	29.93	1.11	-5.11	-0.0012	-0.0014	-0.0038
179	A	31.47	1.31	-1.11	-0.0015	-0.0020	-0.0032
180	A	30.51	-1.77	-1.85	0.0003	-0.0016	-0.0031
181	A	31.38	-2.60	-1.42	-0.0014	0.0021	-0.0024
182	A	29.13	-2.51	-7.15	-0.0014	0.0031	-0.0023
183	A	31.13	-0.14	-5.64	-0.0015	0.0031	-0.0020
184	A	40.18	5.11	-8.50	-0.0023	-0.0009	-0.0038
185	A	40.18	1.11	-9.07	-0.0015	-0.0011	-0.0037
186	A	40.81	-1.87	-9.08	-0.0021	-0.0009	-0.0031
187	A	42.00	3.29	-10.31	-0.0010	-0.0006	-0.0028
188	A	41.81	6.42	-10.81	-0.0007	-0.0004	-0.0030
189	A	42.09	3.87	-10.62	-0.0006	0.0000	-0.0029
190	A	40.26	-0.64	-9.87	-0.0010	0.0007	-0.0041
191	A	39.80	-2.34	-10.14	-0.0007	0.0008	-0.0045
192	A	40.34	-3.93	-10.44	-0.0006	0.0006	-0.0040
193	A	52.76	-5.41	-14.88	-0.0016	0.0002	-0.0048
194	A	52.74	-1.87	-14.55	-0.0016	0.0005	-0.0046
195	A	52.34	3.28	-13.89	-0.0017	0.0003	-0.0045
196	A	52.37	6.78	-13.75	-0.0019	-0.0002	-0.0048
197	A	52.69	3.84	-13.56	-0.0016	-0.0005	-0.0047
198	A	52.95	-0.36	-13.67	-0.0015	0.0002	-0.0045
199	A	52.76	-3.15	-13.78	-0.0016	0.0004	-0.0044
200	A	53.08	-3.74	-13.96	-0.0017	0.0004	-0.0046
201	A	52.72	-4.71	-14.87	-0.0017	0.0001	-0.0047
202	A	96.03	6.48	-32.06	-0.0028	0.0001	-0.0057
203	A	96.03	-4.68	-32.45	-0.0028	0.0001	-0.0056
204	A	95.71	-4.00	-32.26	-0.0031	0.0003	-0.0058
205	A	107.61	6.89	-38.20	-0.0032	0.0002	-0.0058
206	A	107.62	-4.76	-38.57	-0.0032	0.0001	-0.0059
207	A	107.29	-4.39	-38.38	-0.0032	0.0002	-0.0059
208	A	119.57	7.17	-44.96	-0.0035	0.0002	-0.0060
209	A	119.57	-4.80	-45.30	-0.0035	0.0002	-0.0061
210	A	119.28	-4.70	-45.14	-0.0033	0.0002	-0.0061

UNTUK URUSAN TENDER SAHAJA

Job Number		Sheet 15
Job Title 45M HEIGHT TOWER 3 LEGGED		
Client KELANTAN ICT GETAWAY SDN BHD		
Calcs by DYN	Checked by	Date

===== REACTIONS AT ULS =====  
(In rotated axes where applicable)

Node	Lcase	X-force kN	Y-force kN	Z-force kN	X-moment kNm	Y-moment kNm	Z-moment kNm
22	A	-20.31	-220.81	10.57	-1.64	0.03	-2.20
24	A	-21.04	200.48	-11.06	1.38	0.02	-1.83
26	A	-2.28	69.12	4.75	-1.36	-0.06	0.69

EQUILIBRIUM CHECK AT ULS:

LC APPLIED LOADS & MOMENTS about (0.0,0.0,0.0) in global axes

Sum of:	Px	Py	Pz	Mx	My	Mz
A	43.63	-48.79	-4.26	-106.23	166.15	-1436.33

LC REACTIONS & REACTION MOMENTS about (0.0,0.0,0.0) in global axes

Sum of:	Rx	Ry	Rz	MRx	MRy	MRz
A	-43.63	48.79	4.26	106.23	166.15	1436.33

===== REACTIONS AT SLS (Combinations only) =====

(In rotated axes where applicable)

Node	Lcase	X-force kN	Y-force kN	Z-force kN	X-moment kNm	Y-moment kNm	Z-moment kNm
22	A	-20.31	-220.81	10.57	-1.64	0.03	-2.20
24	A	-21.04	200.48	-11.06	1.38	0.02	-1.83
26	A	-2.28	69.12	4.75	-1.36	-0.06	0.69

===== BEAM ELEMENT END FORCES IN LOCAL ELEMENT AXES at ULS =====

Elem	Lcase	Axial kN	Y-Shear kN	X-Shear kN	Torsion kNm	M-yy kNm	M-xx kNm
24-	A	169.92	2.10	0.15	0.00	0.27	1.98
104		-169.65	-0.8	0.15	0.00	0.10	1.46
104-	A	169.93	-0.0	0.0	0.00	-0.08	-1.41
107		-169.66	0.0	-0.0	0.00	0.01	-0.20
107-	A	173.8	0.0	0.0	0.00	-0.02	0.05
116		-173.60	0.02	-0.03	0.00	-0.03	-0.07
79-	A	173.5	-0.07	-0.06	0.00	0.06	-0.10
116		173.51	0.19	0.06	0.00	0.03	-0.02
79-	A	172.2	0.2	0.12	0.00	-0.05	-0.17
130		172.4	-0.4	-0.12	0.00	-0.07	-0.06
130-	A	169.4	0.32	-0.15	0.00	0.06	0.08
141		169.2	-1.31	0.15	0.00	0.09	1.24
30-		169.23	2.79	1.05	0.00	-0.96	1.49
141		169.41	-2.77	-1.05	0.00	-0.10	1.30
30-		18.81	1.43	-0.77	0.00	0.92	1.36
141		177.59	-1.42	0.77	0.00	0.24	0.78
40-	A	148.54	0.76	0.18	0.00	-0.05	0.37
48-		148.76	0.74	-0.18	0.00	-0.22	0.75
40-	A	148.36	0.68	-0.01	0.00	0.03	0.31
19		-148.14	-0.67	0.01	0.00	-0.01	0.70
3-	A	147.95	0.97	0.01	0.00	-0.03	0.72
19		-148.17	-0.96	-0.01	0.00	0.02	0.73
34-	A	107.94	0.77	-0.07	0.00	0.01	0.68
16		-107.71	-0.76	0.07	0.00	0.10	0.47
1	A	107.56	0.49	0.09	0.00	-0.04	0.26
		-107.78	-0.48	-0.09	0.00	-0.09	0.47
81-	A	109.61	0.52	-0.09	0.00	0.05	0.23
175		-109.39	-0.51	0.09	0.00	0.08	0.55
42-		109.18	0.65	0.37	0.00	-0.47	0.40
175		-109.40	-0.63	-0.37	0.00	-0.08	0.57
42-	A	71.98	0.15	-0.20	0.00	0.44	0.31
184		-71.81	-0.14	0.20	0.00	-0.14	-0.08
82-	A	71.63	-0.13	-0.20	0.00	0.16	-0.12
184		-71.81	0.14	0.20	0.00	0.14	-0.08
82-	A	68.97	0.20	0.15	0.00	-0.14	-0.07
193		-68.79	-0.19	-0.15	0.00	-0.08	0.36
46-	A	68.53	0.52	-0.09	0.00	0.04	0.36
193		-68.71	-0.51	0.09	0.00	0.09	0.41
46-	A	42.73	0.39	-0.05	0.00	-0.03	0.36
83		-42.55	-0.37	0.05	0.00	0.10	0.21

UNTUK URUSAN TENDER SAHAJA

Job Title 45M HEIGHT TOWER 3 LEGGED

Client KELANTAN ICT GETAWAY SDN BHD

Calcs by DYN

Checked by

Date

52-	A	42.37	0.22	0.26	0.00	-0.30	0.11
83		-42.55	-0.21	-0.26	0.00	-0.10	0.21
52-	A	20.39	0.07	-0.20	0.00	0.24	0.06
84		-20.28	-0.07	0.20	0.00	0.06	0.05
2-	A	20.10	0.08	0.05	0.00	-0.02	0.05
84		-20.21	-0.07	-0.05	0.00	-0.04	0.06
2-	A	10.15	-0.03	-0.03	0.00	0.00	0.00
203		-10.08	0.03	0.03	0.00	0.03	-0.04
5-	A	9.93	0.08	-0.01	0.00	-0.02	0.02
203		-10.00	-0.08	0.01	0.00	0.03	0.06
5-	A	4.36	0.02	0.00	0.00	-0.01	0.02
206		-4.30	-0.02	0.00	0.00	0.01	0.00
8-	A	4.17	0.03	0.01	0.00	-0.02	0.01
206		-4.23	-0.03	-0.01	0.00	0.01	0.02
8-	A	2.11	0.02	0.00	0.00	-0.02	0.02
209		-2.05	-0.02	0.00	0.00	0.01	0.00
11-	A	1.92	0.02	0.00	0.00	0.01	0.01
209		-1.99	-0.02	0.00	0.00	0.01	0.00
11-	A	0.04	0.02	0.00	0.00	-0.01	0.00
14		0.09	-0.02	0.00	0.00	0.00	0.02
14-	A	-0.58	0.01	0.00	0.00	0.00	0.01
17		0.71	-0.01	0.00	0.00	0.00	0.01
17-	A	-0.08	0.02	-0.03	0.00	0.00	0.01
73		0.14	-0.02	0.03	0.00	0.00	0.01
20-	A	-0.20	0.02	0.03	0.00	-0.01	0.00
73		0.14	-0.02	-0.03	0.00	0.01	-0.00
26-	A	65.80	1.30	0.60	0.00	0.55	1.14
101		-65.53	-1.28	-0.60	0.00	0.55	0.76
101-	A	65.80	-0.52	-0.13	0.00	0.02	0.69
113		-65.53	0.53	0.13	0.00	-0.01	-0.10
113-	A	67.70	0.05	-0.09	0.00	0.00	0.02
122		-67.44	-0.03	0.09	0.00	0.00	0.04
91-	A	66.86	-0.13	0.15	0.00	-0.13	0.06
122		-67.13	-0.11	-0.15	0.00	-0.09	0.13
91-	A	66.34	-0.07	-0.15	0.00	0.12	-0.03
135		-66.18	0.09	0.15	0.00	0.14	-0.05
135-	A	64.62	0.48	0.16	0.00	-0.12	0.03
144		-64.44	-0.16	-0.16	0.00	-0.02	0.44
29-	A	64.30	1.16	-1.17	0.01	1.27	0.69
144		-64.48	-0.15	-1.17	0.01	0.05	0.47
29-	A	67.16	-0.11	-0.11	0.00	-1.19	0.62
153		-66.94	0.11	-0.11	0.00	-0.38	0.39
92-	A	66.70	0.13	-0.13	0.00	0.10	0.20
153		-67.00	-0.13	-0.30	0.00	0.35	0.37
92-	A	66.29	-0.30	-0.05	-0.01	-0.04	0.13
163		-66.07	0.28	-0.05	0.01	-0.04	0.30
35-	A	65.85	-0.12	-0.28	-0.02	0.38	0.45
163		-66.07	-0.12	0.28	0.02	0.04	0.32
35-	A	67.49	-0.38	-0.27	-0.01	0.26	0.25
171		-67.27	-0.36	-0.17	0.01	0.00	0.31
93-	A	67.03	0.34	0.04	0.02	-0.07	0.17
171		-67.25	-0.32	-0.04	-0.02	0.00	0.33
93-	A	66.15	0.37	0.12	0.01	-0.12	0.17
18		-65.13	-0.35	-0.12	-0.01	-0.05	0.38
14		67.10	0.68	-0.38	0.00	0.51	0.60
81-	A	66.32	-0.67	0.38	0.00	0.06	0.41
14		61.07	0.66	0.52	0.00	-0.60	0.56
111		-60.89	-0.65	-0.52	0.00	-0.18	0.43
9-	A	60.82	0.41	-0.14	0.00	0.06	0.21
111		-60.99	-0.40	0.14	0.00	0.16	0.41
94		60.63	0.35	0.00	0.00	-0.05	0.18
19		-60.45	-0.33	0.00	0.00	0.04	0.34
47-	A	60.30	0.40	-0.02	0.00	0.08	0.25
199		-60.48	-0.39	0.02	0.00	-0.05	0.34
47-	A	64.85	0.38	0.12	0.00	-0.05	0.25
95		-64.67	-0.36	-0.12	0.00	-0.13	0.31
54-	A	64.52	0.40	-0.28	0.00	0.29	0.28
95		-64.70	-0.39	0.28	0.00	0.13	0.31
54-	A	56.58	0.20	0.06	0.00	-0.09	0.15
96		-56.47	-0.19	-0.06	0.00	0.00	0.15
3-	A	56.28	0.17	0.05	0.00	-0.06	0.08
96		-56.39	-0.16	-0.05	0.00	-0.02	0.17
3-	A	40.75	0.15	-0.24	0.00	0.08	0.13
204		-40.68	-0.15	0.24	0.00	0.16	0.02
6-	A	40.45	-0.01	1.13	0.00	-0.15	0.00
204		-40.52	0.01	1.28	0.00	0.23	0.00
6-	A	30.55	0.00	1.14	0.00	-0.18	0.01
207		-30.49	0.00	1.27	0.00	0.25	-0.01

UNTUK URUSAN TENDER SAHAJA

		Job Number					Sheet 17	
Job Title		45M HEIGHT TOWER 3 LEGGED						
Client		KELANTAN ICT GETAWAY SDN BHD						
Calcs by		DYN			Checked by		Date	
9-	A	30.35	0.02	1.11	0.00	-0.16	0.00	
207		-30.41	-0.02	1.30	0.00	0.26	0.02	
9-	A	20.26	0.00	1.24	0.00	-0.22	0.01	
210		-20.20	0.00	1.17	0.00	0.18	-0.01	
12-	A	20.14	0.02	1.41	0.00	-0.37	0.01	
210		-20.20	-0.02	1.00	0.00	0.17	0.01	
12-	A	11.59	0.00	2.35	0.00	-0.72	0.00	
15		-11.46	0.00	2.47	0.00	0.83	0.00	
15-	A	5.36	0.00	2.41	0.00	-0.82	0.00	
18		-5.23	0.00	2.41	0.00	0.82	0.00	
18-	A	1.40	0.00	2.64	0.00	-0.94	0.00	
75		-1.34	0.00	-0.23	0.00	-0.49	0.00	
21-	A	1.28	0.00	2.18	0.00	-0.48	0.00	
75		-1.34	0.00	0.23	0.00	-0.49	0.00	
22-	A	-195.14	-2.76	-0.28	0.00	0.30	-2.39	
97		195.41	2.78	0.28	0.00	0.12	-1.78	
97-	A	-195.95	1.20	0.06	0.00	-0.10	1.67	
110		196.22	-1.18	-0.06	0.00	0.00	0.11	
110-	A	-202.10	0.29	0.02	0.00	-0.01	0.04	
119		202.37	-0.27	-0.02	0.00	0.02	0.38	
85-	A	-204.39	0.88	-0.04	0.00	0.04	0.70	
119		204.12	-0.86	0.04	0.00	-0.03	-0.11	
85-	A	-204.91	0.63	0.10	0.00	-0.04	-0.38	
132		205.09	-0.62	-0.10	0.00	-0.06	-0.31	
132-	A	-201.70	-1.66	-0.01	0.00	0.00	-1.29	
139		201.88	1.67	0.01	0.00	-0.00	-1.15	
28-	A	-202.38	-3.15	0.27	0.00	0.00	-1.22	
139		202.20	3.16	-0.27	0.00	0.03	-1.22	
25-	A	-0.75	0.09	-0.01	0.00	-0.00	0.16	
91		0.75	0.05	0.01	0.00	-0.00	-0.11	
25-	A	-0.84	0.09	0.01	0.00	0.00	-0.07	
79		0.84	0.05	-0.01	0.00	0.00	0.01	
86-	A	-181.95	-0.84	-0.01	0.00	0.00	-0.44	
157		182.17	0.83	0.01	0.00	0.02	-0.84	
36-	A	-182.57	-1.07	0.10	0.00	0.05	-0.78	
157		182.35	1.09	-0.10	0.00	0.02	-0.84	
36-	A	-150.10	-0.99	0.04	0.00	0.04	-0.81	
168		150.32	1.01	0.04	0.00	0.03	-0.69	
87-	A	-150.77	-0.66	0.00	0.00	0.02	-0.32	
168		150.51	0.67	0.00	0.00	-0.02	-0.67	
87-	A	-151.51	-0.67	0.00	0.00	0.00	-0.37	
178		151.74	0.67	0.00	0.00	-0.05	-0.75	
40-	A	-152.11	-0.80	-0.00	0.00	0.08	-0.46	
178		151.88	0.81	0.00	0.00	0.06	-0.75	
40-	A	-119.67	-0.33	0.09	0.00	-0.06	-0.47	
188		119.65	0.34	0.09	0.00	-0.07	0.12	
88-	A	-120.83	-0.37	0.09	0.00	0.06	0.27	
188		119.83	0.37	0.09	0.00	0.07	0.12	
88-	A	-15.60	-0.20	0.02	0.00	-0.05	0.12	
196		15.73	0.20	-0.02	0.00	0.02	-0.57	
48-	A	-15.96	-0.74	0.06	0.00	-0.09	-0.51	
196		15.78	0.75	-0.06	0.00	-0.01	-0.61	
48-	A	-92.21	-0.67	-0.03	0.00	0.04	-0.59	
89		92.39	0.68	0.03	0.00	-0.01	-0.43	
53-	A	-92.73	-0.35	-0.04	0.00	0.05	-0.14	
89		91.55	0.37	0.04	0.00	0.00	-0.40	
11-	A	-96.09	-0.21	0.16	0.00	-0.17	-0.16	
11		94.20	0.22	-0.16	0.00	-0.07	-0.17	
11-	A	-64.38	-0.16	-0.10	0.00	0.09	-0.08	
91		64.27	0.17	0.10	0.00	0.07	-0.16	
11-	A	-43.67	-0.04	-0.19	0.00	0.11	0.02	
20		43.70	0.04	0.19	0.00	0.08	-0.05	
11-	A	-43.83	0.10	-0.11	0.00	0.02	0.03	
20		43.76	-0.10	0.11	0.00	0.09	0.07	
7-	A	-29.63	-0.07	-0.07	0.00	0.03	-0.04	
20		29.69	0.07	0.07	0.00	0.04	-0.04	
7-	A	-29.79	0.05	-0.05	0.00	0.01	0.01	
205		29.73	-0.05	0.05	0.00	0.04	0.04	
7-	A	-18.13	-0.05	-0.03	0.00	0.01	-0.03	
208		18.20	0.05	0.03	0.00	0.02	-0.02	
10-	A	-18.28	0.04	-0.04	0.00	0.01	0.01	
208		18.22	-0.04	0.04	0.00	0.03	0.03	
16-	A	-7.81	-0.01	-0.01	0.00	0.00	-0.01	
13		7.93	0.01	0.01	0.00	0.01	-0.01	
13-	A	-1.89	-0.01	0.00	0.00	0.00	-0.01	
16		2.01	0.01	0.00	0.00	0.00	0.00	
16-	A	-0.02	-0.03	-0.03	0.00	0.01	-0.02	
74		0.09	0.03	0.03	0.00	0.01	-0.01	

UNTUK URUSAN TENDER SAHAJA



Job Number						Sheet 18	
Job Title						45M HEIGHT TOWER 3 LEGGED	
Client						KELANTAN ICT GETAWAY SDN BHD	
Calcs by			DYN			Checked by	Date

19-	A	-0.15	-0.03	0.03	0.00	-0.04	-0.03
74		0.09	0.03	-0.03	0.00	0.01	0.01
27-	A	0.40	0.06	0.00	0.00	-0.01	0.02
91		-0.40	0.08	0.00	0.00	0.00	-0.04
27-	A	0.99	0.05	-0.01	0.00	0.01	0.00
85		-0.99	0.10	0.01	0.00	0.01	-0.06
32-	A	0.30	0.07	0.03	0.00	-0.06	0.04
92		-0.30	0.05	-0.03	0.00	-0.01	-0.02
32-	A	0.60	0.07	-0.03	0.00	0.04	0.04
86		-0.60	0.05	0.03	0.00	0.03	-0.01
38-	A	-0.68	0.04	0.29	0.00	-0.46	-0.01
93		0.68	0.07	-0.29	0.00	-0.11	-0.02
38-	A	0.18	0.04	-0.17	0.00	0.17	0.00
87		-0.18	0.06	0.17	0.00	0.17	-0.02
43-	A	-0.03	0.06	0.02	0.00	-0.02	0.03
94		0.03	0.01	-0.02	0.00	-0.01	0.00
43-	A	0.28	-0.03	-0.03	0.00	0.03	0.03
88		-0.28	0.10	0.03	0.00	0.02	0.07
50-	A	-0.78	0.03	0.07	0.00	-0.07	-0.01
95		0.78	0.01	-0.07	0.00	-0.03	-0.01
50-	A	0.58	0.01	-0.10	0.00	0.00	0.00
89		-0.58	0.03	0.10	0.00	0.04	-0.01
57-	A	-0.39	-0.02	0.83	0.00	0.09	-0.02
96		0.39	0.08	-0.83	0.00	0.12	-0.03
57-	A	-0.20	0.01	-0.39	0.00	-0.19	-0.01
90		0.20	0.04	0.39	0.00	0.33	0.01
1-	A	2.01	0.04	0.00	0.00	0.00	0.00
3		-2.01	0.07	0.00	0.00	0.01	0.03
60-	A	-2.11	-0.05	0.01	0.00	-0.01	-0.02
204		2.11	0.10	-0.01	0.00	0.00	-0.06
60-	A	0.34	0.04	-0.01	0.00	0.02	0.01
202		-0.34	0.01	0.01	0.00	-0.11	0.01
4-	A	-1.39	0.04	0.00	0.00	0.00	0.00
6		1.39	0.06	0.00	0.00	0.00	-0.03
62-	A	0.39	0.01	-0.11	0.00	0.00	0.00
207		-0.39	0.01	0.11	0.00	0.01	-0.02
62-	A	0.19	0.01	-0.19	0.00	0.00	0.01
205		-0.19	0.01	0.19	0.00	0.01	0.00
7-	A	0.46	0.01	0.00	0.00	0.00	0.00
9		-0.46	0.07	0.00	0.00	0.00	-0.03
65-	A	-1.56	0.05	0.01	0.00	-0.01	0.02
210		1.56	0.10	-0.01	0.00	0.00	0.01
65-	A	0.39	0.05	0.01	0.00	0.00	0.01
208		-0.39	0.01	-0.01	0.00	0.00	0.01
10-	A	2.00	0.00	0.00	0.00	0.00	0.01
12		-2.00	0.00	0.00	0.00	0.00	-0.03
13-	A	0.29	0.05	0.00	0.00	0.00	0.01
14		-0.29	0.06	0.00	0.00	0.00	-0.02
16-	A	-0.09	0.05	0.00	0.00	0.00	0.02
17		0.09	0.05	0.00	0.00	0.00	-0.02
19-	A	0.07	0.05	0.00	0.00	0.00	0.01
20		-0.07	0.05	0.00	0.00	0.00	-0.01
31-	A	-0.66	0.05	0.02	0.00	-0.05	0.00
8		0.66	0.08	-0.02	0.00	0.01	-0.03
31-	A	-0.64	0.04	-0.02	0.00	0.02	0.00
8		0.64	0.08	0.02	0.00	0.02	-0.04
39-	A	0.30	0.07	0.00	0.00	-0.16	0.05
73		-0.30	0.03	0.00	0.00	0.16	-0.01
39-	A	-0.28	0.08	-0.09	0.00	0.07	0.05
71		0.28	0.03	0.09	0.00	0.10	0.00
41-	A	-0.26	0.00	0.00	0.00	-0.01	-0.02
9		0.26	0.07	0.00	0.00	0.01	-0.02
41-	A	-0.43	0.05	-0.01	0.00	0.00	0.00
82		0.43	0.02	0.01	0.00	0.01	0.02
51-	A	1.90	0.04	0.00	0.00	-0.03	0.02
95		-1.90	0.01	0.00	0.00	0.03	0.00
51-	A	-0.67	0.04	-0.03	0.00	0.02	0.02
83		0.67	0.01	0.03	0.00	0.03	0.00
53-	A	0.58	0.02	-0.26	0.00	-0.03	-0.01
96		-0.58	0.03	0.26	0.00	0.32	0.00
56-	A	-0.42	0.02	-0.17	0.00	0.06	-0.02
84		0.42	0.04	0.17	0.00	0.12	0.00
2-	A	-4.93	0.04	-0.05	0.00	0.03	0.01
3		4.93	0.07	0.05	0.00	0.07	-0.03
59-	A	0.34	0.00	0.02	0.00	-0.02	0.00
204		-0.34	0.05	-0.02	0.00	0.00	-0.02
59-	A	0.05	0.02	-0.02	0.00	0.01	0.00
203		-0.05	0.03	0.02	0.00	0.01	-0.01

UNTUK URUSAN TENDER SAHAJA

Job Number						Sheet 19	
Job Title		45M HEIGHT TOWER 3 LEGGED					
Client		KELANTAN ICT GETAWAY SDN BHD					
Calcs by		DYN			Checked by		Date

5-	A	-7.30	0.05	0.00	0.00	0.00	0.01
6		7.30	0.05	0.00	0.00	0.01	-0.02
63-	A	0.35	0.02	0.01	0.00	-0.01	0.00
207		-0.35	0.03	-0.01	0.00	-0.01	-0.01
63-	A	0.00	0.03	0.00	0.00	0.00	0.00
206		0.00	0.03	0.00	0.00	0.00	0.00
8-	A	-4.06	0.05	0.00	0.00	0.00	0.01
9		4.06	0.06	0.00	0.00	0.00	-0.02
66-	A	-0.93	0.06	-0.01	0.00	0.00	0.02
210		0.93	0.00	0.01	0.00	0.00	0.01
66-	A	0.00	0.03	0.00	0.00	0.00	0.00
209		0.00	0.02	0.00	0.00	0.00	0.00
11-	A	-3.21	0.00	0.00	0.00	0.00	-0.02
12		3.21	0.10	0.00	0.00	0.00	-0.08
14-	A	-1.39	0.05	0.00	0.00	0.00	0.01
15		1.39	0.05	0.00	0.00	0.00	-0.01
17-	A	-1.13	0.04	0.00	0.00	0.00	0.01
18		1.13	0.07	0.00	0.00	0.00	-0.04
20-	A	-0.43	0.16	0.00	0.00	-0.01	0.08
21		0.43	-0.06	0.00	0.00	0.00	0.15
19-	A	-0.38	0.16	0.00	0.00	0.01	0.08
21		0.38	-0.06	0.00	0.00	0.00	0.15
16-	A	-1.67	0.04	0.00	0.00	0.00	0.11
18		1.67	0.07	0.00	0.00	0.00	0.04
13-	A	-2.81	0.06	0.00	0.00	0.00	0.02
15		2.81	0.05	0.00	0.00	0.00	-0.02
10-	A	-1.90	0.00	0.00	0.00	0.00	-0.02
12		1.90	0.11	0.00	0.00	0.00	-0.02
64-	A	0.05	0.03	0.01	0.00	0.00	0.00
208		-0.05	0.02	-0.01	0.00	0.00	0.00
64-	A	-0.01	0.01	0.00	0.00	0.00	0.00
209		0.01	0.04	0.00	0.00	0.00	-0.02
7-	A	3.29	0.05	0.00	0.00	0.00	0.01
8		-3.29	0.06	0.00	0.00	0.00	0.02
61-	A	0.52	0.03	0.01	0.00	-0.01	0.01
205		-0.52	0.02	-0.01	0.00	0.01	0.00
61-	A	-1.54	0.01	0.00	0.00	0.00	0.00
206		1.54	0.04	0.00	0.00	0.00	-0.01
4-	A	5.49	0.04	0.00	0.00	0.00	0.01
5		-5.49	0.06	0.00	0.00	0.00	-0.03
58-	A	-0.01	0.05	0.01	0.00	0.00	0.01
202		0.01	0.00	-0.01	0.00	-0.01	0.01
58-	A	-0.16	0.00	0.00	0.00	0.00	-0.01
203		0.16	0.00	-0.00	0.00	-0.01	-0.02
1-	A	1.04	0.00	0.00	0.00	-0.07	0.02
2		-1.04	0.05	-0.03	0.00	-0.03	-0.02
55-	A	1.34	0.05	0.00	0.00	0.00	0.03
90		-1.34	0.01	0.00	0.00	-0.34	-0.01
55-	A	-1.80	0.02	0.18	0.00	-0.07	0.01
84		1.80	0.00	0.18	0.00	-0.13	-0.02
49-	A	0.70	0.00	0.03	0.00	0.00	-0.01
83		-0.70	0.00	-0.03	0.00	-0.04	-0.01
49-	A	-1.57	0.02	0.03	0.00	-0.02	0.00
83		1.57	0.03	-0.03	0.00	-0.03	-0.01
41-		2.09	0.00	0.01	0.00	0.00	-0.01
88		-2.09	0.07	-0.01	0.00	-0.01	-0.05
41-	A	0.77	0.08	0.01	0.00	-0.01	0.05
82		-0.77	-0.01	-0.01	0.00	0.00	0.02
7-	A	0.62	0.04	0.06	0.00	0.03	0.00
8		-0.62	0.06	-0.06	0.00	-0.14	-0.03
3-	A	-1.70	0.04	0.05	0.00	0.00	0.00
81		1.70	0.06	-0.05	0.00	-0.10	-0.02
31-		0.49	0.07	0.01	0.00	0.00	0.04
6		-0.49	0.05	-0.01	0.00	-0.03	-0.01
11-		-0.07	0.07	0.01	0.00	0.00	0.03
0		0.07	0.05	-0.01	0.00	-0.02	-0.02
1-	A	0.70	0.05	0.01	0.00	-0.01	0.01
8		-0.70	0.09	-0.01	0.00	-0.01	-0.05
23-	A	-0.05	0.08	0.00	0.00	0.01	0.04
79		0.05	0.07	0.00	0.00	0.01	-0.03
24-	A	15.60	0.18	0.05	0.00	-0.04	0.15
105		-15.52	-0.14	-0.05	0.00	-0.04	0.12
105-	A	12.40	-0.02	-0.01	0.00	0.02	-0.05
108		-12.32	0.06	0.01	0.00	0.00	-0.02
108-	A	11.92	0.02	0.00	0.00	0.00	0.00
117		-11.84	0.02	0.00	0.00	0.00	0.00
25-	A	11.58	0.04	0.00	0.00	0.00	0.04
117		-11.66	0.00	0.00	0.00	0.01	0.00

UNTUK URUSAN TENDER SAHAJA

Job Number						Sheet 20	
Job Title		45M HEIGHT TOWER 3 LEGGED					
Client		KELANTAN ICT GETAWAY SDN BHD					
Calcs by		DYN			Checked by		Date

26-	A	-2.25	0.13	-0.01	0.00	0.01	0.11
102		2.33	-0.09	0.01	0.00	0.01	0.08
102-	A	-4.83	0.01	0.00	0.00	-0.01	-0.02
114		4.91	0.03	0.00	0.00	0.00	0.00
114-	A	-5.33	0.03	0.00	0.00	-0.01	0.00
123		5.40	0.01	0.00	0.00	0.00	0.01
25-	A	-5.66	0.05	0.00	0.00	0.01	0.04
123		5.58	-0.01	0.00	0.00	-0.01	0.01
25-	A	-2.83	0.07	0.00	0.00	-0.01	0.06
137		2.88	-0.03	0.00	0.00	0.00	0.00
137-	A	-2.59	-0.04	0.00	0.00	0.00	-0.02
146		2.64	0.08	0.00	0.00	0.00	-0.06
30-	A	-0.04	-0.15	0.05	0.00	-0.04	-0.12
146		-0.01	0.19	-0.05	0.00	-0.03	-0.11
29-	A	-6.73	0.13	0.01	0.00	-0.02	0.13
156		6.81	-0.06	-0.01	0.00	0.00	0.06
33-	A	-8.63	0.03	0.00	0.00	-0.01	-0.01
156		8.55	0.03	0.00	0.00	0.00	0.01
30-	A	7.76	0.18	0.02	0.00	-0.01	0.19
155		-7.68	-0.12	-0.02	0.00	-0.02	0.10
33-	A	5.51	0.05	0.00	0.00	-0.02	0.00
155		-5.59	0.02	0.00	0.00	0.02	0.03
33-	A	-9.41	-0.04	-0.03	0.00	0.04	-0.04
161		9.49	0.09	0.03	0.00	0.01	0.07
34-	A	-8.75	-0.05	0.02	0.00	-0.01	0.06
161		8.67	0.11	-0.02	0.00	-0.02	0.09
33-	A	6.34	-0.02	-0.07	0.00	0.06	0.04
162		-6.26	0.08	0.07	0.00	0.00	0.05
35-	A	6.81	-0.03	-0.11	0.00	0.00	0.05
162		-6.89	0.08	0.11	0.00	-0.04	0.05
25-	A	9.27	0.08	-0.01	0.00	0.00	0.00
138		-9.21	-0.04	0.01	0.00	0.00	0.01
138-	A	9.42	-0.01	0.00	0.00	0.00	-0.02
147		-9.37	0.06	0.00	0.00	0.00	0.03
29-	A	11.10	-0.08	-0.04	0.00	-0.00	0.08
147		-11.16	0.13	0.04	0.00	0.00	-0.05
35-	A	-5.55	0.05	0.12	0.00	-0.01	0.02
173		5.63	0.01	-0.10	0.00	-0.01	0.02
39-	A	-5.55	0.06	-0.10	0.00	0.09	0.04
173		5.47	0.00	-0.10	0.00	0.21	0.01
34-	A	8.51	0.11	0.01	0.00	0.01	0.08
174		-8.40	-0.05	0.01	0.00	-0.03	0.06
39-	A	7.33	0.08	0.06	0.00	0.08	0.06
174		-7.41	-0.02	-0.06	0.00	0.03	0.04
39-	A	7.53	-0.01	-0.01	0.00	-0.01	0.02
181		-7.45	0.00	0.00	0.00	0.03	-0.03
44-	A	8.41	-0.00	0.00	0.00	0.00	-0.09
181		-8.40	0.01	0.00	0.00	0.00	-0.06
39-	A	-6.13	0.01	-0.02	0.00	-0.01	0.01
180		6.11	0.04	0.02	0.00	0.04	-0.04
42-	A	-5.13	-0.05	0.04	0.00	-0.01	-0.06
180		5.05	0.00	-0.04	0.00	-0.05	-0.07
44-	A	0.80	-0.10	-0.03	0.00	0.05	0.12
192		-0.70	-0.00	0.03	0.00	0.00	0.07
45-	A	-0.70	0.03	-0.02	0.00	0.02	-0.01
192		0.65	0.02	0.02	0.00	0.01	0.02
42-	A	8.89	0.09	0.00	0.00	-0.01	0.11
186		-8.81	-0.04	0.00	0.00	0.00	0.00
45-	A	7.73	0.00	0.00	0.00	0.00	-0.04
18		-7.81	0.04	0.00	0.00	0.00	0.00
35-	A	9.27	-0.04	0.01	0.00	0.00	-0.05
190		-9.19	0.08	-0.01	0.00	-0.01	-0.05
44-	A	9.69	-0.04	-0.04	0.00	0.03	-0.04
200		-9.77	0.07	0.04	0.00	0.03	-0.05
44-	A	-1.72	-0.05	-0.01	0.00	-0.01	-0.05
200		1.80	0.08	0.01	0.00	0.03	-0.06
16		-1.53	-0.05	0.04	0.00	-0.02	-0.05
101		1.45	0.09	-0.04	0.00	-0.04	-0.07
51-	A	1.77	0.05	0.01	0.00	0.00	0.04
51		-1.69	0.02	-0.01	0.00	-0.01	0.00
51-	A	-4.49	0.08	-0.02	0.00	0.03	0.06
52		4.57	-0.01	0.02	0.00	0.02	0.03
47-	A	-6.12	0.05	0.01	0.00	0.01	0.02
51		6.20	0.02	-0.01	0.00	-0.02	0.00
51-	A	-0.02	0.09	-0.07	0.00	0.02	0.07
51		0.10	-0.02	0.07	0.00	0.11	0.04
52-	A	6.59	0.10	-0.05	0.00	0.06	0.08
56		-6.51	-0.03	0.05	0.00	0.03	0.05

UNTUK URUSAN TENDER SAHAJA

		Job Number					Sheet 21	
Job Title		45M HEIGHT TOWER 3 LEGGED						
Client		KELANTAN ICT GETAWAY SDN BHD						
Calcs by		DYN			Checked by			Date

2-	A	2.24	0.02	-0.01	0.00	0.03	0.00
56		-2.32	0.03	0.01	0.00	0.00	0.00
54-	A	2.03	0.11	-0.01	0.00	0.05	0.09
56		-1.95	-0.05	0.01	0.00	-0.03	0.07
3-	A	5.55	0.02	0.04	0.00	-0.02	0.01
56		-5.63	0.03	-0.04	0.00	-0.05	-0.02
2-	A	5.91	0.04	-0.01	0.00	0.01	0.02
59		-5.85	0.01	0.01	0.00	0.00	0.00
5-	A	6.87	0.01	0.00	0.00	0.00	-0.01
59		-6.92	0.04	0.00	0.00	-0.01	-0.01
3-	A	6.87	0.08	-0.03	0.00	0.04	0.04
59		-6.82	-0.02	0.03	0.00	0.01	0.03
6-	A	5.55	-0.02	-0.01	0.00	0.00	-0.02
59		-5.61	0.07	0.01	0.00	0.01	-0.04
5-	A	3.47	0.03	0.00	0.00	0.00	0.01
63		-3.42	0.02	0.00	0.00	0.00	0.00
8-	A	5.83	0.01	0.00	0.00	0.00	-0.01
63		-5.88	0.04	0.00	0.00	0.00	0.01
6-	A	5.80	0.06	-0.01	0.00	0.00	0.02
63		-5.75	0.00	0.01	0.00	0.01	0.02
9-	A	3.04	0.00	-0.01	0.00	0.00	-0.01
63		-3.10	0.05	0.01	0.00	0.01	-0.03
8-	A	-0.08	0.02	0.00	0.00	0.00	0.01
66		0.11	0.02	0.00	0.00	0.00	0.01
11-	A	3.46	0.02	0.00	0.00	0.00	0.01
66		-3.50	0.02	0.00	0.00	0.00	0.01
9-	A	4.26	0.03	0.00	0.00	0.00	0.01
66		-4.23	0.01	0.00	0.00	0.00	0.01
12-	A	0.42	0.05	0.01	0.00	-0.01	0.01
66		-0.46	-0.01	-0.01	0.00	-0.01	0.01
11-	A	-2.13	0.02	-0.01	0.00	0.00	-0.01
68		2.17	0.01	0.02	0.00	0.00	0.01
14-	A	3.91	0.02	0.00	0.00	0.00	0.01
68		-3.94	0.02	0.00	0.00	0.00	0.01
12-	A	4.03	0.06	-0.01	0.00	0.01	0.05
68		-3.99	-0.03	0.01	0.00	0.00	0.02
15-	A	-2.20	0.00	0.00	0.00	0.00	-0.01
68		2.17	0.04	0.00	0.00	0.00	-0.02
14-	A	-1.95	0.01	0.00	0.00	0.00	0.00
71		1.99	0.02	0.00	0.00	0.00	-0.01
17-	A	2.46	0.02	0.00	0.00	0.00	0.01
71		-2.49	0.02	0.00	0.00	0.00	0.00
15-	A	2.57	0.01	0.01	0.00	0.00	0.00
71		-2.53	0.03	0.00	0.00	0.00	-0.01
18-	A	-2.07	0.03	0.00	0.00	0.00	0.01
71		2.03	0.01	0.00	0.00	0.00	0.00
17-	A	-0.93	0.01	0.00	0.00	0.01	0.00
78		0.97	0.01	0.00	0.00	0.00	-0.02
20-	A	0.6	0.01	0.00	0.00	0.01	-0.02
78		-0.7	0.00	0.01	0.00	0.01	-0.03
18-	A	0.93	0.01	0.01	0.00	-0.01	0.02
78		-0.89	0.01	-0.01	0.00	-0.01	0.01
21	A	1.05	0.00	-0.02	0.00	0.03	-0.11
78		-1.01	0.04	0.02	0.00	0.00	-0.06
26-	A	5.96	0.03	0.04	0.00	-0.05	0.06
100		-5.88	-0.04	-0.04	0.00	-0.03	0.04
100-		5.36	0.00	0.00	0.00	0.01	-0.02
112		1.28	0.04	0.00	0.00	0.00	-0.01
112-	A	3.42	0.02	0.00	0.00	0.00	0.01
112		-3.44	0.02	0.00	0.00	0.00	0.00
27-	A	5.08	0.02	0.00	0.00	0.01	0.00
121		-5.16	0.02	0.00	0.00	0.00	0.00
121-		-12.81	-0.18	0.06	0.00	-0.05	-0.17
9		12.89	0.22	-0.06	0.00	-0.05	-0.16
9-		-9.14	0.07	-0.01	0.00	0.02	0.08
11		9.22	-0.03	0.01	0.00	-0.01	0.01
111-	A	8.54	0.06	0.00	0.00	0.00	0.04
111		-8.62	-0.02	0.00	0.00	0.00	0.02
27-	A	-8.81	0.07	-0.01	0.00	0.01	0.04
121		8.73	-0.02	0.01	0.00	0.00	0.04
27-	A	-6.67	-0.02	0.00	0.00	-0.01	-0.03
136		6.72	0.07	0.00	0.00	0.01	-0.03
136-		-6.87	0.00	0.00	0.00	-0.01	0.00
145		6.93	0.05	0.00	0.00	0.01	-0.03
29-	A	-7.36	0.01	0.00	0.00	0.00	0.01
145		7.30	0.03	0.00	0.00	-0.01	-0.03
27-	A	2.20	-0.03	0.00	0.00	-0.01	-0.04
134		-2.14	0.07	0.00	0.00	0.01	-0.02

UNTUK URUSAN TENDER SAHAJA

Job Number						Sheet 22	
Job Title		45M HEIGHT TOWER 3 LEGGED					
Client		KELANTAN ICT GETAWAY SDN BHD					
Calcs by		DYN			Checked by		Date

134-	A	1.98	0.07	0.00	0.00	-0.01	0.01
143		-1.92	-0.02	0.00	0.00	0.01	0.04
28-	A	-0.50	0.19	0.06	0.00	-0.04	0.12
143		0.44	-0.15	-0.06	0.00	-0.03	0.10
28-	A	-5.44	-0.11	0.02	0.00	-0.02	-0.15
152		5.52	0.17	-0.02	0.00	-0.02	-0.12
32-	A	-3.84	0.00	0.01	0.00	-0.03	0.00
152		3.76	0.07	-0.01	0.00	0.01	-0.07
29-	A	6.49	0.04	0.03	0.00	-0.05	0.01
154		-6.41	0.02	-0.03	0.00	-0.01	0.01
32-	A	6.95	0.05	0.01	0.00	-0.02	0.03
154		-7.03	0.01	-0.01	0.00	0.00	0.01
32-	A	-4.49	0.03	-0.07	0.00	0.05	0.02
164		4.57	0.03	0.07	0.00	0.08	-0.02
35-	A	-4.49	0.00	-0.08	0.00	0.20	-0.02
164		4.41	0.06	0.08	0.00	-0.05	-0.03
32-	A	7.11	0.08	-0.02	0.00	0.05	0.05
165		-7.03	-0.03	0.02	0.00	0.00	0.05
36-	A	5.86	0.13	0.03	0.00	-0.04	0.10
165		-5.94	-0.07	-0.03	0.00	-0.02	0.09
36-	A	-9.98	-0.06	-0.03	0.00	0.07	-0.07
170		10.06	0.12	0.03	0.00	-0.02	-0.09
38-	A	-8.90	-0.03	-0.15	0.00	0.26	0.05
170		8.82	0.09	0.15	0.00	0.02	0.07
35-	A	5.69	0.11	0.62	0.00	-0.53	-0.03
172		-5.61	-0.05	-0.62	0.00	-0.61	-0.04
38-	A	4.07	0.07	-0.59	0.01	0.00	0.08
172		-4.15	-0.02	0.59	-0.01	0.00	0.04
38-	A	-9.04	-0.01	0.01	0.00	0.11	-0.02
183		9.12	0.06	-0.01	0.00	-0.00	-0.04
44-	A	-9.04	-0.02	-0.03	0.00	-0.05	-0.02
183		8.96	0.06	-0.03	0.00	-0.00	-0.05
38-	A	4.34	0.06	0.02	0.00	0.10	-0.03
179		-4.26	-0.01	-0.02	0.00	0.04	0.04
40-	A	3.27	0.09	0.05	0.00	-0.01	0.05
179		-3.35	-0.03	-0.05	0.00	0.09	0.07
40-	A	-5.15	0.01	0.00	0.00	0.04	-0.05
189		5.23	0.04	-0.00	0.00	0.11	0.02
43-	A	-5.31	0.09	0.02	0.00	-0.03	0.09
189		5.23	-0.04	-0.02	0.00	-0.01	0.02
44-	A	4.10	0.07	0.01	0.00	0.01	0.04
190		-4.10	-0.02	-0.01	0.00	-0.02	0.04
43-	A	3.81	0.00	0.00	0.00	-0.02	0.04
190		-3.89	-0.00	0.00	0.00	0.02	0.03
43-	A	-5.99	0.00	-0.00	0.00	0.02	0.01
198		6.07	0.03	0.02	0.00	0.01	-0.03
47-	A	-5.62	0.03	0.00	0.00	0.01	-0.02
198		5.44	0.05	0.00	0.00	-0.01	-0.05
43-	A	4.02	0.08	0.02	0.00	0.01	0.03
197		-4.02	-0.00	-0.02	0.00	0.02	0.06
48-	A	3.20	0.10	0.05	0.00	-0.04	0.09
187		-3.30	-0.10	-0.05	0.00	-0.04	0.10
47-	A	4.85	0.05	0.05	0.00	-0.04	0.03
50		-4.77	-0.02	-0.05	0.00	-0.06	0.00
50-		-3.51	-0.06	-0.03	0.00	-0.08	0.05
54		3.59	0.00	-0.03	0.00	0.02	0.01
48-	A	4.21	-0.03	-0.04	0.00	0.03	-0.06
50		0.29	0.10	0.04	0.00	0.06	-0.07
50-	A	-3.74	0.02	-0.01	0.00	0.04	-0.02
54		3.66	0.05	0.01	0.00	-0.01	-0.01
54-	A	4.19	0.08	0.27	0.00	-0.21	0.05
54		-4.11	-0.02	-0.27	0.00	-0.30	0.05
53-	A	-10.27	0.00	0.27	0.00	-0.24	0.00
57		10.10	0.05	-0.27	0.00	-0.25	-0.04
53-	A	-11.08	0.02	-0.20	0.00	0.15	0.00
57		11.16	0.05	0.20	0.00	0.23	-0.03
54	A	3.43	0.08	-0.27	0.00	0.24	0.04
54		-3.51	-0.02	0.27	0.00	0.25	0.05
53-	A	9.00	0.03	-0.02	0.00	0.03	0.00
60		-8.95	0.02	0.02	0.00	0.00	0.00
6-	A	-8.06	-0.02	0.01	0.00	-0.01	-0.02
60		8.01	0.07	-0.01	0.00	0.00	-0.05
1-	A	-9.67	-0.02	0.03	0.00	-0.03	-0.03
60		9.72	0.07	-0.03	0.00	-0.01	-0.04
4-	A	7.02	0.05	0.00	0.00	0.00	0.01
60		-7.07	0.00	0.00	0.00	0.00	0.02
6-	A	5.47	0.05	0.00	0.00	0.00	0.01
62		-5.41	0.01	0.00	0.00	0.00	0.01

UNTUK URUSAN TENDER SAHAJA

Job Number						Sheet 23	
Job Title		45M HEIGHT TOWER 3 LEGGED					
Client		KELANTAN ICT GETAWAY SDN BHD					
Calcs by		DYN			Checked by		Date

9-	A	-5.92	0.00	0.00	0.00	0.00	0.00
62		5.87	0.05	0.00	0.00	0.00	-0.03
4-	A	-5.42	0.00	0.01	0.00	-0.01	-0.01
62		5.47	0.06	-0.01	0.00	0.00	-0.03
7-	A	5.57	0.04	0.00	0.00	0.00	0.01
62		-5.62	0.01	0.00	0.00	0.00	0.02
9-	A	6.88	0.03	0.00	0.00	0.00	0.01
65		-6.83	0.02	0.00	0.00	0.00	0.00
12-	A	-5.43	0.08	-0.02	0.00	0.03	0.07
65		5.37	-0.03	0.02	0.00	0.01	0.01
7-	A	-6.39	0.01	0.00	0.00	0.00	0.00
65		6.43	0.03	0.00	0.00	0.00	-0.01
10-	A	5.56	0.03	0.00	0.00	0.00	0.01
65		-5.60	0.01	0.00	0.00	0.00	0.00
12-	A	2.50	0.06	0.01	0.00	-0.01	0.05
69		-2.47	-0.03	-0.01	0.00	0.00	0.02
15-	A	-3.03	0.00	0.00	0.00	0.00	-0.01
69		2.99	0.04	0.00	0.00	0.00	-0.02
10-	A	-2.96	0.02	0.01	0.00	-0.01	0.00
69		3.00	0.02	-0.01	0.00	0.00	0.00
13-	A	2.37	0.02	0.00	0.00	0.00	0.00
69		-2.41	0.02	0.00	0.00	0.00	0.00
15-	A	0.67	0.01	0.00	0.00	0.00	0.00
72		-0.63	0.03	0.00	0.00	0.00	-0.01
18-	A	-1.24	0.03	0.00	0.00	0.00	0.01
72		1.21	0.01	0.00	0.00	0.00	0.00
13-	A	-1.13	0.01	0.00	0.00	0.00	0.00
72		1.16	0.02	0.00	0.00	0.00	0.01
16-	A	0.56	0.02	0.00	0.00	0.00	0.01
72		-0.60	0.02	0.00	0.00	0.00	0.00
18-	A	0.84	0.04	-0.01	0.00	0.01	0.02
77		-0.81	-0.01	0.01	0.00	0.00	-0.01
21-	A	-1.12	-0.10	0.02	0.00	-0.01	-0.01
77		1.09	0.14	-0.02	0.00	0.00	-0.01
16-	A	-1.00	0.01	0.00	0.00	0.01	0.00
77		1.04	0.03	0.00	0.00	0.00	-0.01
19-	A	0.60	-0.02	0.01	0.00	-0.01	-0.02
77		-0.64	0.05	-0.01	0.00	0.00	-0.03
22-	A	-16.21	-0.15	-0.07	0.00	0.00	-0.15
98		16.29	0.20	0.07	0.00	0.00	-0.15
98-	A	-13.45	0.08	0.01	0.00	-0.02	0.08
109		13.53	0.04	-0.01	0.00	0.01	0.02
109-	A	-13.18	0.06	0.00	0.00	0.00	0.04
118		13.26	-0.02	0.00	0.00	0.00	0.02
23-	A	-13.46	0.07	0.01	0.00	-0.01	0.05
118		13.38	-0.03	0.01	0.00	0.00	0.04
24-	A	18.87	0.16	-0.06	0.00	0.05	0.13
103		-18.79	-0.12	0.06	0.00	0.04	0.11
103-	A	16.62	-0.01	0.00	0.00	-0.01	-0.05
106		-16.54	0.01	0.00	0.00	0.01	-0.02
106-	A	16.32	0.00	0.00	0.00	0.00	0.00
115		-16.24	0.03	0.00	0.00	0.00	-0.01
23-	A	15.96	0.01	0.01	0.00	-0.01	0.00
115		-16.13	0.13	-0.01	0.00	0.00	-0.01
23-	A	11.15	0.00	0.00	0.00	0.01	-0.02
133		-11.11	0.00	0.00	0.00	-0.01	-0.01
133-	A	11.00	0.00	0.00	0.00	0.01	0.01
140		-10.91	-0.02	0.00	0.00	-0.02	0.05
28-	A	8.75	0.17	-0.04	0.00	0.03	0.09
140		-8.84	-0.12	0.04	0.00	0.03	0.10
28-	A	30.19	-1.66	-0.26	0.00	0.27	-1.57
150		10.41	1.67	0.26	0.00	0.12	-0.93
86-	A	11.96	-0.82	0.08	0.00	-0.02	-0.38
50-	A	8.74	0.84	-0.08	0.00	-0.11	-0.87
10-	A	10.37	0.12	-0.04	0.00	0.05	0.10
19-	A	-10.29	-0.05	0.04	0.00	0.02	0.06
3-	A	9.93	0.07	-0.01	0.00	0.03	0.04
119		-10.01	0.00	0.01	0.00	-0.01	0.03
28-	A	-14.75	-0.09	-0.03	0.00	0.04	-0.13
15-	A	14.83	0.15	0.03	0.00	0.02	-0.10
11-	A	-13.85	0.00	-0.01	0.00	0.03	-0.01
57-	A	13.77	0.07	0.01	0.00	-0.01	-0.06
131-	A	-8.47	0.00	0.00	0.00	0.01	0.00
131-	A	8.52	0.04	0.00	0.00	-0.01	-0.03
131-	A	-8.56	-0.03	0.00	0.00	0.01	-0.01
142		8.61	0.07	0.00	0.00	-0.02	-0.06
30-	A	-7.91	-0.08	-0.03	0.00	0.02	-0.05
142		7.85	0.12	0.03	0.00	0.02	-0.08

UNTUK URUSAN TENDER SAHAJA

Job Number						Sheet 24	
Job Title		45M HEIGHT TOWER 3 LEGGED					
Client		KELANTAN ICT GETAWAY SDN BHD					
Calcs by		DYN			Checked by		Date

31-	A	10.81	0.08	0.04	0.00	-0.03	0.04
158		-10.73	-0.02	-0.04	0.00	-0.04	0.05
36-	A	9.74	0.12	0.00	0.00	-0.04	0.08
158		-9.82	-0.06	0.00	0.00	0.04	0.08
31-	A	-14.77	-0.01	0.03	0.00	-0.03	0.00
160		14.85	0.06	-0.03	0.00	-0.02	-0.06
34-	A	-14.22	-0.05	-0.02	0.00	0.00	-0.06
160		14.14	0.10	0.02	0.00	0.03	-0.08
34-	A	17.24	0.10	-0.03	0.00	0.01	0.09
167		-17.16	-0.04	0.03	0.00	0.04	0.05
37-	A	13.51	0.04	0.04	0.00	-0.04	0.01
167		-13.59	0.02	-0.04	0.00	-0.04	0.01
36-	A	-14.01	-0.06	-0.06	0.00	0.03	-0.08
169		14.09	0.12	0.06	0.00	0.08	-0.09
37-	A	-13.09	-0.03	0.05	0.00	-0.02	-0.04
169		13.01	0.09	-0.05	0.00	-0.07	-0.07
37-	A	13.23	0.05	0.02	0.00	0.01	0.01
177		-13.15	-0.01	-0.02	0.00	-0.05	0.04
40-	A	12.08	0.10	-0.04	0.00	0.02	0.06
177		-12.16	-0.06	0.04	0.00	0.05	0.08
37-	A	-12.94	-0.03	0.03	0.00	0.00	0.03
176		13.02	0.07	-0.03	0.00	-0.01	0.05
42-	A	-12.95	-0.01	-0.03	0.00	0.00	0.07
176		12.87	0.06	0.03	0.00	0.05	-0.01
42-	A	15.90	0.06	-0.02	0.00	0.03	0.04
185		-15.82	-0.01	0.02	0.00	-0.01	0.02
41-	A	15.74	0.05	-0.01	0.00	0.03	-0.03
185		-15.82	-0.01	0.01	0.00	-0.01	0.02
40-	A	-17.00	0.02	-0.02	0.00	0.00	-0.04
187		17.08	0.03	0.02	0.00	0.00	0.03
41-	A	-17.16	0.09	-0.01	0.00	0.03	0.09
187		17.08	-0.05	0.00	0.00	-0.01	0.03
41-	A	15.73	0.07	0.00	0.00	-0.02	0.02
195		-15.65	-0.03	0.00	0.00	-0.03	0.06
48-	A	11.30	0.13	0.00	0.00	0.01	0.08
195		-11.38	-0.09	0.03	0.00	0.01	0.10
41-	A	-17.26	0.11	0.02	0.00	-0.02	0.03
194		17.34	0.03	0.02	0.00	0.01	-0.04
46-	A	-15.07	-0.01	0.00	0.00	0.02	-0.05
194		14.99	0.00	-0.01	0.00	0.02	-0.07
46-	A	12.50	0.00	0.00	0.00	0.00	0.07
49		-12.46	-0.01	0.00	0.00	0.01	0.03
49-	A	9.13	0.02	0.03	0.00	-0.02	0.01
52		9.11	0.04	-0.03	0.00	-0.04	-0.02
48-	A	-9.00	0.01	-0.01	0.00	0.00	-0.04
49		9.00	0.00	0.01	0.00	0.03	-0.04
49-	A	11.10	-0.01	0.04	0.00	0.00	-0.05
53		-11.20	0.08	-0.04	0.00	-0.08	-0.04
53-	A	-10.40	-0.06	-0.02	0.00	-0.04	-0.07
55		10.52	0.12	0.02	0.00	0.07	-0.09
17		5.34	0.07	-0.05	0.00	0.02	0.04
51		5.42	-0.01	0.05	0.00	0.07	0.03
52		7.48	0.01	0.02	0.00	-0.02	-0.02
5		-7.40	0.06	-0.02	0.00	-0.01	-0.03
1		-8.69	-0.01	0.03	0.00	-0.04	-0.02
5		8.61	0.06	-0.03	0.00	-0.02	-0.05
1		-9.20	0.01	0.03	0.00	-0.03	0.00
5		9.34	0.04	-0.03	0.00	0.00	-0.02
4		0.03	0.06	-0.01	0.00	0.00	0.02
58		-0.02	-0.01	0.01	0.00	0.01	0.02
1		0.28	0.03	0.01	0.00	0.00	0.00
1		-0.23	0.02	-0.01	0.00	-0.01	0.00
5		-9.34	0.02	0.00	0.00	0.00	0.01
58		9.29	0.03	0.00	0.00	0.00	-0.01
4		-7.90	-0.01	-0.01	0.00	0.00	-0.02
61		7.95	0.06	0.01	0.00	0.01	-0.03
7		-0.01	0.05	0.00	0.00	0.00	0.01
62		-0.04	0.01	0.00	0.00	0.01	0.01
5		1.68	0.02	0.00	0.00	0.00	0.00
61		-1.63	0.03	0.00	0.00	0.00	-0.01
8		-6.62	0.02	0.00	0.00	0.00	0.00
61		6.57	0.03	0.00	0.00	0.00	-0.01
7		-4.76	0.01	0.00	0.00	0.00	0.00
64		4.80	0.03	0.00	0.00	0.00	-0.01
10-	A	1.77	0.02	0.00	0.00	0.00	0.01
64		-1.81	0.01	0.00	0.00	0.00	0.00
8-	A	1.97	0.01	0.00	0.00	0.00	0.00
64		-1.93	0.02	0.00	0.00	0.00	-0.01

UNTUK URUSAN TENDER SAHAJA

Job Number						Sheet 25	
Job Title		45M HEIGHT TOWER 3 LEGGED					
Client		KELANTAN ICT GETAWAY SDN BHD					
Calcs by		DYN			Checked by		Date

11-	A	-4.86	0.02	0.00	0.00	0.00	0.00
64		4.82	0.02	0.00	0.00	0.00	-0.01
10-	A	-4.65	0.01	0.00	0.00	0.00	0.00
67		4.69	0.03	0.00	0.00	0.00	-0.01
13-	A	3.11	0.02	0.00	0.00	0.00	0.00
67		-3.15	0.02	0.00	0.00	0.00	0.00
11-	A	3.23	0.02	0.00	0.00	0.00	0.00
67		-3.20	0.02	0.00	0.00	0.00	-0.01
14-	A	-4.76	0.01	0.00	0.00	0.00	0.00
67		4.73	0.02	0.00	0.00	0.00	-0.01
13-	A	-2.16	0.01	0.00	0.00	0.00	0.00
70		2.20	0.02	0.00	0.00	0.00	-0.01
16-	A	1.46	0.02	0.00	0.00	0.00	0.00
70		-1.50	0.02	0.00	0.00	0.00	0.00
14-	A	1.58	0.02	0.00	0.00	0.00	0.00
70		-1.54	0.02	0.00	0.00	0.00	-0.01
17-	A	-2.27	0.02	0.00	0.00	0.00	0.00
70		2.23	0.02	0.00	0.00	0.00	0.01
16-	A	0.02	0.02	0.00	0.00	0.00	0.00
76		0.01	0.02	0.00	0.00	0.00	0.11
19-	A	-0.10	0.01	0.00	0.00	0.00	0.11
76		0.06	0.03	0.00	0.00	0.00	-0.11
17-	A	0.03	0.02	0.00	0.00	0.00	0.00
76		0.01	0.02	0.00	0.00	0.00	0.00
20-	A	-0.10	0.01	0.00	0.00	0.00	-0.01
76		0.06	0.03	0.00	0.00	0.00	-0.11
97-	A	2.03	0.09	0.11	0.00	0.00	0.05
98		-2.03	-0.06	-0.11	0.00	0.00	0.00
98-	A	-2.77	-0.02	-0.02	0.00	0.00	-0.06
110		2.85	0.03	0.02	0.00	0.00	0.00
99-	A	-3.58	-0.02	0.00	0.00	0.00	-0.06
110		3.66	0.05	-0.00	0.00	0.01	0.00
97-	A	2.72	0.16	0.11	0.00	0.04	0.08
99		-2.72	-0.13	-0.11	0.00	0.02	0.02
109-	A	0.52	0.16	0.01	0.00	-0.01	0.08
110		-0.52	-0.08	-0.01	0.00	-0.01	0.08
109-	A	0.61	0.00	0.01	0.00	0.00	-0.03
119		0.69	0.00	0.00	0.00	0.01	-0.05
111-	A	-1.00	0.00	0.00	0.00	0.00	-0.03
119		1.08	0.00	0.00	0.00	-0.01	-0.05
110-	A	0.93	0.00	0.00	0.00	0.01	-0.08
111		-0.93	0.13	0.01	0.00	0.00	-0.08
118-	A	-0.50	0.03	0.00	0.00	0.00	0.00
119		0.50	0.08	0.00	0.00	0.00	-0.04
118-	A	0.00	0.00	0.00	0.00	0.00	-0.01
125		-0.00	0.00	0.00	0.00	0.00	-0.01
119-	A	0.10	0.00	0.00	0.00	0.00	0.03
125		-0.00	0.03	0.00	0.00	0.00	-0.01
119-	A	-0.05	0.08	0.00	0.00	0.00	0.05
120		0.05	0.03	0.00	0.00	0.00	0.01
120-	A	0.10	0.01	0.00	0.00	0.00	-0.01
120		0.02	0.02	0.00	0.00	0.00	-0.01
11	A	0.10	0.03	0.00	0.00	0.01	0.03
28		-0.02	0.03	0.00	0.00	0.00	-0.01
103-	A	-1.57	0.03	0.09	0.00	-0.03	-0.01
114		1.57	0.01	-0.09	0.00	-0.03	0.02
113-	A	2.09	0.05	-0.02	0.00	0.04	0.06
117		-2.09	-0.02	0.02	0.00	-0.01	0.00
10	A	2.93	0.05	0.02	0.00	-0.03	0.06
10		-2.85	-0.02	-0.02	0.00	0.00	0.00
10	A	-2.28	-0.05	-0.07	0.00	0.03	-0.04
10		2.28	0.09	0.07	0.00	0.02	-0.01
1	A	-0.30	-0.07	0.00	0.00	0.00	-0.06
107		0.30	0.14	0.00	0.00	0.01	-0.09
106-	A	0.27	0.05	-0.01	0.00	0.00	0.03
116		-0.19	0.02	0.01	0.00	0.01	0.00
108-	A	0.47	0.05	0.01	0.00	0.00	0.03
116		-0.39	0.01	-0.01	0.00	-0.01	0.01
107-	A	-0.51	0.14	0.00	0.00	-0.01	0.08
108		0.51	-0.07	0.00	0.00	0.00	0.05
115-	A	-0.18	0.05	0.00	0.00	0.00	0.01
116		0.18	0.06	0.00	0.00	0.01	-0.02
115-	A	0.11	0.01	0.00	0.00	0.00	0.00
124		-0.03	0.02	0.00	0.00	0.00	-0.01
116-	A	0.09	0.04	0.00	0.00	0.00	0.02
124		-0.01	0.03	0.00	0.00	0.00	-0.01
116-	A	-0.14	0.06	0.01	0.00	-0.01	0.02
117		0.14	0.05	-0.01	0.00	0.00	-0.01

UNTUK URUSAN TENDER SAHAJA



Job Title 45M HEIGHT TOWER 3 LEGGED

Client KELANTAN ICT GETAWAY SDN BHD

Calcs by DYN

Checked by

Date

117-	A	0.11	0.00	0.00	0.00	0.01	-0.01
129		-0.03	0.03	0.00	0.00	0.00	-0.01
116-	A	0.09	0.04	0.00	0.00	0.00	0.01
129		-0.01	0.04	0.00	0.00	0.00	-0.01
100-	A	-0.35	0.03	-0.05	0.00	0.02	0.00
101		0.35	0.01	0.05	0.00	0.02	0.01
100-	A	0.48	0.03	0.01	0.00	-0.02	0.03
113		-0.40	0.00	-0.01	0.00	0.01	0.00
102-	A	2.22	0.02	-0.01	0.00	0.01	0.02
113		-2.14	0.01	0.01	0.00	0.01	-0.01
101-	A	-1.84	-0.14	0.03	0.00	-0.01	-0.07
102		1.84	0.18	-0.03	0.00	-0.01	-0.04
112-	A	0.18	-0.01	0.00	0.00	0.00	-0.02
113		-0.18	0.08	0.00	0.00	-0.01	-0.04
112-	A	-0.22	0.03	0.00	0.00	0.00	-0.01
122		0.30	0.03	0.00	0.00	0.00	-0.01
114-	A	0.42	0.04	0.00	0.00	0.00	0.02
122		-0.34	0.03	0.00	0.00	0.01	-0.01
113-	A	-0.48	0.07	0.00	0.00	0.00	0.03
114		0.48	0.00	0.00	0.00	0.00	0.02
121-	A	-0.15	0.04	0.00	0.00	0.00	0.01
122		0.15	0.06	0.00	0.00	-0.01	0.03
121-	A	0.10	0.01	0.00	0.00	0.00	0.01
127		-0.02	0.02	0.00	0.00	0.00	0.01
122-	A	0.09	0.04	0.00	0.00	-0.01	0.02
127		-0.01	0.03	0.00	0.00	0.00	0.01
122-	A	-0.12	0.06	-0.01	0.00	0.00	0.02
123		0.12	0.05	0.01	0.00	0.01	-0.01
123-	A	0.11	0.00	0.00	0.00	0.01	-0.01
128		-0.03	0.03	0.00	0.00	0.00	-0.01
122-	A	0.09	0.04	0.00	0.00	0.00	0.01
128		-0.01	0.04	0.00	0.00	-0.01	0.01
91-	A	0.10	0.05	0.00	0.00	0.00	0.02
136		-0.05	0.05	0.00	0.00	0.00	-0.01
135-	A	0.08	0.04	0.00	0.00	0.00	0.00
136		-0.08	0.06	0.00	0.00	0.00	-0.02
135-	A	-0.58	0.05	0.00	0.00	0.01	0.01
138		0.58	0.05	0.00	0.00	0.00	-0.01
91-	A	0.49	0.06	0.00	0.00	0.00	0.03
138		-0.49	0.04	0.00	0.00	0.00	0.00
135-	A	-0.23	0.03	0.00	0.00	-0.01	0.00
145		0.28	0.02	0.00	0.00	0.01	0.00
144-	A	0.48	0.00	0.00	0.00	0.00	0.01
145		-0.48	0.00	0.00	0.00	-0.01	0.00
144-	A	-2.42	0.00	0.00	0.00	0.00	0.02
147		2.42	-0.02	-0.02	0.00	-0.02	0.01
135-	A	2.11	0.04	0.00	0.00	-0.01	0.01
147		-2.15	0.11	0.00	0.00	0.01	0.02
85-	A	0.08	0.05	0.00	0.00	0.01	0.03
134		-0.08	0.05	0.00	0.00	0.00	-0.02
132-	A	0.10	0.00	0.00	0.00	0.00	0.04
134		-0.10	0.02	0.00	0.00	0.00	0.01
132-	A	0.04	0.08	0.00	0.00	0.00	0.04
133		-0.02	0.02	0.00	0.00	0.00	0.01
85-		0.17	0.06	0.00	0.00	0.00	0.04
133		0.12	0.04	0.00	0.00	0.00	-0.01
13	A	0.47	0.00	0.00	0.00	0.01	0.01
41		0.52	0.06	0.00	0.00	-0.02	-0.05
89	A	3.09	-0.02	-0.06	0.00	0.03	-0.03
133		-3.09	0.07	0.06	0.00	0.02	-0.01
129-	A	2.76	-0.02	0.05	0.00	-0.03	-0.03
130		-2.76	0.07	-0.05	0.00	-0.02	-0.01
131-	A	-2.19	0.00	0.00	0.00	-0.01	0.01
141		2.24	0.05	0.00	0.00	0.01	-0.04
9	A	0.64	0.06	0.00	0.00	0.00	0.02
87		-0.59	0.04	0.00	0.00	0.00	0.00
130-	A	-0.77	0.03	0.00	0.00	-0.01	-0.01
131		0.77	0.06	0.00	0.00	0.00	-0.02
130-	A	-0.16	0.02	0.00	0.00	0.00	-0.01
131		0.16	0.07	0.00	0.00	0.00	-0.03
79-	A	0.25	0.05	0.00	0.00	0.01	0.02
131		-0.19	0.05	0.00	0.00	0.00	-0.01
130-	A	3.06	0.05	0.01	0.00	0.01	0.00
146		-3.00	0.00	-0.01	0.00	-0.02	0.03
141-	A	-3.56	0.10	-0.04	0.00	0.01	0.05
146		3.56	-0.05	0.04	0.00	0.03	0.02
141-	A	-1.02	0.05	0.03	0.00	-0.02	0.03
142		1.02	-0.01	-0.03	0.00	-0.01	0.00

UNTUK URUSAN TENDER SAHAJA

Job Title 45M HEIGHT TOWER 3 LEGGED

Client KELANTAN ICT GETAWAY SDN BHD

Calcs by DYN

Checked by

Date

130-	A	1.04	0.04	0.00	0.00	0.00	0.00
142		-0.98	0.01	0.00	0.00	0.01	0.03
148-	A	-2.34	-0.04	-0.02	0.00	0.02	-0.03
155		2.34	0.08	0.02	0.00	0.01	-0.03
80-	A	1.87	-0.01	0.01	0.00	-0.01	-0.01
155		-1.92	0.04	-0.01	0.00	-0.01	-0.04
80-	A	0.19	0.00	0.00	0.00	0.00	-0.01
149		-0.25	0.04	0.00	0.00	0.01	-0.03
148-	A	-0.25	0.02	0.03	0.00	-0.02	0.00
149		0.25	0.02	-0.03	0.00	-0.01	0.00
153-	A	-1.96	-0.03	0.00	0.00	0.00	-0.03
156		1.96	0.07	0.00	0.00	0.00	-0.03
92-	A	1.49	0.01	-0.01	0.00	0.02	0.00
156		-1.54	0.03	0.01	0.00	0.01	-0.02
92-	A	-0.68	0.01	0.00	0.00	-0.01	0.00
154		0.62	0.03	0.00	0.00	-0.01	-0.01
153-	A	0.75	0.04	-0.02	0.00	0.01	0.00
154		-0.75	0.00	0.02	0.00	0.01	0.01
150-	A	1.18	0.05	0.04	0.00	-0.03	0.03
151		-1.18	-0.01	-0.04	0.00	-0.01	0.00
86-	A	-1.21	0.05	0.00	0.00	-0.01	0.00
151		1.16	-0.01	0.00	0.00	0.00	-0.01
86-	A	-1.86	0.05	0.01	0.00	-0.01	0.00
152		1.80	-0.01	-0.02	0.00	0.01	0.00
150-	A	1.98	0.08	-0.04	0.00	0.03	0.00
152		-1.98	-0.03	0.04	0.00	-0.01	0.02
86-	A	-0.91	0.00	0.00	0.00	0.00	-0.01
158		0.96	0.04	0.00	0.00	0.00	-0.03
157-	A	1.04	0.02	0.04	0.00	-0.01	0.00
158		-1.04	0.02	-0.04	0.00	-0.01	0.00
157-	A	1.26	0.01	-0.05	0.00	0.00	0.00
165		-1.26	0.03	0.05	0.00	0.02	0.00
86-	A	-1.11	0.00	0.00	0.00	-0.01	0.00
165		1.17	0.04	0.00	0.00	-0.02	-0.03
80-	A	0.84	0.04	0.00	0.00	0.00	0.02
160		-0.89	0.01	0.00	0.00	0.01	0.02
159-	A	-0.84	0.04	0.04	0.00	-0.03	0.02
160		0.84	0.00	-0.04	0.00	-0.01	0.01
159-	A	-0.98	-0.01	0.00	0.00	0.03	0.01
161		0.98	0.00	0.00	0.00	0.01	0.00
80-	A	1.11	0.00	0.00	0.00	0.01	0.02
161		-1.01	0.00	0.00	0.00	-0.01	0.01
93-	A	1.35	0.00	-0.02	0.00	-0.14	0.00
172		-1.40	0.03	-0.02	0.00	0.11	-0.03
172-	A	0.54	0.03	0.48	0.00	-0.32	0.01
172		-0.54	-0.01	-0.48	0.00	-0.14	0.00
171-	A	0.20	0.04	-0.23	0.00	0.29	0.01
173		-0.20	0.00	0.29	0.00	-0.01	0.00
93-		0.22	0.01	0.01	0.00	-0.02	0.00
173		-0.17	0.02	-0.01	0.00	0.01	-0.01
87-	A	1.07	0.04	-0.02	0.00	0.04	0.02
166-		-1.07	-0.01	0.02	0.00	0.00	0.02
166-	A	1.21	0.03	-0.11	0.00	0.11	0.01
167		-1.21	0.00	0.11	0.00	0.00	0.00
168		1.03	0.02	0.11	0.00	-0.11	0.01
169		-1.03	0.01	-0.11	0.00	-0.01	0.00
81-	A	-1.23	0.04	0.01	0.00	-0.02	0.02
169		1.27	-0.01	-0.01	0.00	0.01	0.02
81-	A	3.27	-0.01	0.01	0.00	-0.02	-0.01
166-		-3.33	0.04	-0.01	0.00	0.01	-0.03
166-	A	-3.69	0.01	0.06	0.00	-0.06	0.00
167		3.69	0.03	-0.06	0.00	0.00	-0.01
166-	A	-1.00	0.02	-0.06	0.00	0.06	0.00
174		1.00	0.02	0.06	0.00	0.00	0.00
81-	A	0.92	0.00	-0.01	0.00	0.01	-0.01
174		-0.97	0.03	0.01	0.00	0.00	-0.02
81-	A	0.33	0.03	0.01	0.00	-0.01	0.01
174		-0.27	0.01	-0.01	0.00	0.00	0.01
175-	A	-0.12	0.02	0.04	0.00	-0.04	0.00
176		0.12	0.02	-0.04	0.00	0.00	-0.01
175-	A	-1.21	0.05	-0.04	0.00	0.04	0.02
180		1.21	-0.01	0.04	0.00	0.01	0.01
81-	A	1.35	0.04	0.00	0.00	0.01	0.02
180		-1.30	0.00	0.00	0.00	0.00	0.02
87-	A	-0.96	0.00	0.02	0.00	-0.03	0.00
177		1.01	0.04	-0.02	0.00	0.00	-0.03
177-	A	0.99	0.03	0.04	0.00	0.00	0.01
178		-0.99	0.01	-0.04	0.00	-0.04	0.01

UNTUK URUSAN TENDER SAHAJA

Job Number						Sheet 28	
Job Title 45M HEIGHT TOWER 3 LEGGED							
Client KELANTAN ICT GETAWAY SDN BHD							
Calcs by DYN				Checked by		Date	

178-	A	0.93	0.02	-0.04	0.00	0.04	0.00
179		-0.93	0.01	0.04	0.00	0.01	0.00
87-	A	-0.91	0.00	0.01	0.00	-0.01	-0.01
179		0.96	0.04	-0.01	0.00	0.00	-0.03
92-	A	0.32	0.03	0.00	0.00	-0.02	0.01
164		-0.27	0.02	0.00	0.00	0.03	0.00
163-	A	-0.20	0.03	0.02	0.00	0.01	0.01
164		0.20	0.01	-0.02	0.00	-0.03	0.00
162-	A	-0.77	0.01	0.04	0.00	-0.04	0.00
163		0.77	0.03	-0.04	0.00	0.00	-0.01
92-	A	0.87	0.03	-0.01	0.00	-0.02	0.01
162		-0.82	0.01	0.01	0.00	0.04	0.01
93-	A	0.32	0.02	-0.02	0.00	0.04	0.00
183		-0.26	0.01	0.02	0.00	0.00	0.00
182-	A	-0.14	0.03	0.01	0.00	-0.01	0.01
183		0.14	0.00	-0.01	0.00	0.00	0.00
181-	A	-1.09	-0.02	0.02	0.00	-0.03	0.01
182		1.09	0.05	-0.02	0.00	0.01	0.02
93-	A	1.22	0.04	-0.04	0.00	0.06	0.02
181		-1.17	0.00	0.04	0.00	0.03	0.01
94-	A	0.17	0.00	0.01	0.00	-0.01	0.00
190		-0.22	0.03	-0.01	0.00	-0.01	0.00
190-	A	-0.14	-0.01	-0.02	0.00	0.01	-0.01
191		0.14	0.04	0.02	0.00	-0.01	0.01
191-	A	-1.11	-0.06	0.03	0.00	0.01	-0.03
192		1.11	0.09	-0.03	0.00	-0.01	-0.03
94-	A	1.18	-0.01	-0.02	0.00	0.01	-0.01
192		-1.23	0.03	0.02	0.00	0.00	-0.03
88-	A	-0.94	0.01	0.00	0.00	0.00	0.02
197		1.00	0.02	0.00	0.00	-0.02	-0.02
196-	A	0.77	-0.03	-0.07	0.00	0.03	-0.02
197		-0.77	0.06	0.07	0.00	-0.02	-0.01
195-	A	3.89	0.08	0.01	0.00	-0.01	0.02
196		-3.89	-0.05	-0.01	0.00	-0.04	0.03
88-	A	-4.38	0.01	0.01	0.00	-0.01	0.02
195		4.43	0.02	0.01	0.00	0.01	-0.02
82-	A	-2.53	0.00	0.00	0.00	-0.02	0.00
194		-2.47	-0.00	-0.00	0.00	0.00	0.01
193-	A	-2.12	0.00	0.00	0.00	0.02	0.04
194		2.12	-0.00	-0.00	0.00	0.00	0.02
193-	A	-0.23	0.04	0.04	0.00	0.02	0.02
201		0.23	0.01	0.04	0.00	0.01	0.00
82-	A	-0.50	0.01	0.01	0.00	0.00	-0.01
201		-0.44	0.02	-0.01	0.00	-0.01	0.00
94-	A	-0.65	0.00	0.00	0.00	0.00	0.01
188		-0.60	0.00	0.00	0.00	0.00	0.01
198-	A	-0.43	0.00	-0.02	0.00	0.00	0.00
199		-0.43	0.03	0.02	0.00	0.01	-0.01
199-	A	-0.47	-0.01	0.03	0.00	-0.01	-0.01
200		-0.47	0.04	-0.03	0.00	-0.01	-0.01
94-	A	-0.48	0.03	-0.01	0.00	0.00	0.02
200		-0.48	0.00	0.01	0.00	0.01	0.01

===== STATISTICAL DATA =====

Weights of beam elements: (Added to load case 1)

Section Designation	Total Mass (kg)	Total Mass (kN)
EA1 120x120x10	493.0	4.836
EA2 100x100x10	544.0	5.337
EA3 100x100x8	329.4	3.231
EA4 80x80x6	110.3	1.082
EA5 70x70x6	191.5	1.878
EA6 60x60x6	2650.8	26.004
EA7 50x50x5	612.0	6.004
EA8 60x60x5	42.8	0.420
<hr/>		
	4973.8	48.793

Total weight of structure = 48.79 kN

No. of real numbers in Stiffness matrix = 0 (0 bytes)

Time used to analyse = 0: 0:0.940 seconds

Total number of : Nodes = 210

Beam Elements = 514



Job Number		Sheet 29
Job Title 45M HEIGHT TOWER 3 LEGGED		
Client KELANTAN ICT GETAWAY SDN BHD		
Calcs by DYN	Checked by	Date

Cable Elements = 0  
 Shell Elements = 0  
 Supports = 3  
 Section Properties = 8  
 Load Cases = 4  
 Load Combinations = 1

===== END OF OUTPUT =====

**UNTUK URUSAN TENDER SAHAJA**

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## 6.0 Analysis of Structure

The analysis of structure was carried out using the Structural Analysis and Design Software known as PROKON Version 2.1. The structural analysis is limited only to static analysis. The loading considered during the analysis including self weight of telecommunication structure, feeder supports, antenna and wind loading. The output of the analysis is given in "Structural Analysis Sheet".

### 6.1 Deflection of Structure

Deflection check is done based on the above mentioned design parameters. Based on the output generated, the deflection at top of the structure is:

#### 45m height tower 3 legged:

- a) The 45m height tower is legged in an equal angle 120mm and 10mm thickness of the section
- b) From the output generated the deflection at top of the boom is 162.44mm, thus,  
$$= \tan^{-1} (162.44 / 45000)$$
$$= 0.21^\circ < \text{allowable deflection of } 1.0^\circ$$

Therefore, the overall of structure centre line is less than 1.0 degree from the original vertical axis at the top of the tower, thus, the structure is ok due to the deflection.

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From the analysis:

The calculation of the structure is based on the proposed antenna or microwave where;

**7.1 45m height tower 3 legged:**

- a) 14 nos of antenna, 14 nos of RRU and 21 nos of microwave at top level structure of 45m height tower 3 legged is acceptable with 0.21 degree deflection where deflection is less than 1.0 degree.

7.2 The maximum twist and sway (deflection) at the specified elevation of the fully loaded structure, inclusive of all the proposed antenna and microwave shall not exceed 1.0 degree at the design wind speed and parameter under design condition.

7.3 Based on the output generated, the deflection at top of the structure for:

- 7.3.1 14 nos of antenna, 14 nos of RRU and 21 nos of microwave at top level structure of 45m height tower 3 legged is acceptable.

7.4 Based on the design and analysis in accordance to BS 5959 requirements, the structure is safe to public and able to carry the intended design loading.

7.5 Loading for antenna, RRU and microwave are not overload.

7.6 From the re-analysis carried out of the structure by re-modelling based on information collected at the site, the structural component sizes of the pole at its present installation condition is found to Adequate structurally to sustain the existing antenna, microwave and/or RRUs without carry out any strengthening work.

7.7 In the event that unavoidably additional Antenna/Microwave/RRU loadings to be installed on the same pole in the future, another round of assessment will be carried out as commonly practiced.

7.8 It is highly recommended to carry out periodic inspection on the pole so that in the event any defects arise as a result of wear and tear can be picked up at first instant and rectified.

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## CONCLUSION

1. The site survey was conducted by Site Engineer by doing observation and visualization at surrounding area.
2. The aim of this Audit Report is to produce justification of the tower with antenna and microwaves installed is not overload and to report any defects occurred at surrounding area.
3. All defects as mentioned in the **Inspection Report** shall be rectified accordingly.
4. The inspection had been done without any testing was carry out on existing structures.
5. The findings from the site visit are as summarized below.

These findings are valid at the time of site visit and is subjected to limitation.

Listed below are the limitations of this report.

i. There is no existing structures plan or construction drawing.

ii. Inspection only covered defects that could be seen visually, accessible and found during the period of inspection.

iii. Throughout the inspection period, the particular structures are still in use. Therefore, any defect or damages might occur after the inspection through the usage of the buildings.

iv. No testing is done in this inspection to determine the strength of the structures.

**UNTUK URUSAN TENDER SAHAJA**

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