

جدول پ ۱: بارگذاری برج آویزی YSM-03

DESCRIPTION OF LOADING ASSUMPTION			SCHEDULE OF ULTIMATE LOADING (KG) ALLOWABLE								
			No.	LOADING TYPE	SW	Conductors					
					S1	C1	C2	C3	C4	C5	C6
<u>HIGH WIND</u>			1	VERTICAL	341	753	753	753	753	753	753
				TRANSVERSE	433	979	979	979	979	979	979
WIND 40 m/s				LONGITUDINAL	0	0	0	0	0	0	0
ICE 0 mm				WIND ON TOWER	595 kg/m^2 ON PROJECTED AREA OF WIND WARD FACE						
TEMP 15 C				DEAD LOAD	W.T OF TOWER x 1.1						
<u>HEAVY ICE</u>			2	VERTICAL	1105	1885	1885	1885	1885	1885	1885
				TRANSVERSE	170	231	231	231	231	231	231
WIND 0 m/s				LONGITUDINAL	0	0	0	0	0	0	0
ICE 15 mm				WIND ON TOWER	NO WIND						
TEMP -5 C				DEAD LOAD	W.T OF TOWER x 1.1						
<u>NESC MEDIUM</u>			3	VERTICAL	761	1541	1541	1541	1541	1541	1541
				TRANSVERSE	452	698	698	698	698	698	698
WIND 17.8 m/s				LONGITUDINAL	0	0	0	0	0	0	0
ICE 6.5 mm				WIND ON TOWER	268 kg/m^2 ON PROJECTED AREA OF WIND WARD FACE						
TEMP -10 C				DEAD LOAD	W.T OF TOWER x 1.5						
<u>UNBALANCED</u>			4	VERTICAL	461	960	960	960	960	960	960
				TRANSVERSE	289	503	503	503	503	503	503
WIND 25 m/s				LONGITUDINAL	781	392	392	392	392	392	392
ICE 0-7 mm				WIND ON TOWER	232 kg/m^2 ON PROJECTED AREA OF WIND WARD FACE						
TEMP -10 C				DEAD LOAD	W.T OF TOWER x 1.1						
<u>STRINGING & MAINTENANCE</u>			5	VERTICAL	659	1396	1396	1396	1396	1396	1396
				TRANSVERSE	88	101	101	101	101	101	101
WIND 0 m/s				LONGITUDINAL	0	0	0	0	0	0	0
ICE 0 mm				WIND ON TOWER	NO WIND						
TEMP 20 C				DEAD LOAD	W.T OF TOWER x 1.1						
<u>BROKEN (1)</u>			6	VERTICAL	176	404	753	753	753	753	753
				TRANSVERSE	216	499	979	979	979	979	979
S.W. OR ANY				LONGITUDINAL	2580	2558					
ONE CONDUCTOR				WIND ON TOWER	595 kg/m^2 ON PROJECTED AREA OF WIND WARD FACE						
@ CASE NO.1				DEAD LOAD	W.T OF TOWER x 1.1						
<u>BROKEN (2)</u>			7	VERTICAL	558	970	1885	1885	1885	1885	1885
				TRANSVERSE	85	116	231	231	231	231	231
S.W. OR ANY				LONGITUDINAL	3242	2869					
ONE CONDUCTOR				WIND ON TOWER	NO WIND						
@ CASE NO.2				DEAD LOAD	W.T OF TOWER x 1.1						

جدول پ ۲: بارگذاری برج آویزی - کششی YTM-15

DESCRIPTION OF LOADING ASSUMPTION			SCHEDULE OF ULTIMATE LOADING (KG) ALLOWABLE								
			No.	LOADING TYPE	SW	Conductors					
					S1	C1	C2	C3	C4	C5	C6
HIGH WIND WIND 40 m/s ICE 0 mm TEMP 15 C	1	VERTICAL	478	1076	1076	1076	1076	1076	1076		
		TRANSVERSE	1106	2026	2026	2026	2026	2026	2026		
		LONGITUDINAL	0	0	0	0	0	0	0		
		WIND ON TOWER	595 kg/m^2 ON PROJECTED AREA OF WIND WARD FACE								
		DEAD LOAD	W.T OF TOWER x 1.1								
HEAVY ICE WIND 0 m/s ICE 15 mm TEMP -5 C	2	VERTICAL	1536	2643	2643	2643	2643	2643	2643		
		TRANSVERSE	846	1152	1152	1152	1152	1152	1152		
		LONGITUDINAL	0	0	0	0	0	0	0		
		WIND ON TOWER	NO WIND								
		DEAD LOAD	W.T OF TOWER x 1.1								
NESC MEDIUM WIND 17.8 m/s ICE 6.5 mm TEMP -10 C	3	VERTICAL	1064	2180	2180	2180	2180	2180	2180		
		TRANSVERSE	1561	2135	2135	2135	2135	2135	2135		
		LONGITUDINAL	0	0	0	0	0	0	0		
		WIND ON TOWER	268 kg/m^2 ON PROJECTED AREA OF WIND WARD FACE								
		DEAD LOAD	W.T OF TOWER x 1.5								
UNBALANCED WIND 25 m/s ICE 0-7 mm TEMP -10 C	4	VERTICAL	646	1362	1362	1362	1362	1362	1362		
		TRANSVERSE	953	1381	1381	1381	1381	1381	1381		
		LONGITUDINAL	781	1120	1120	1120	1120	1120	1120		
		WIND ON TOWER	232 kg/m^2 ON PROJECTED AREA OF WIND WARD FACE								
		DEAD LOAD	W.T OF TOWER x 1.1								
STRINGING & MAINTENANCE WIND 0 m/s ICE 0 mm TEMP 20 C	5	VERTICAL	228	483	483	483	483	483	483		
		TRANSVERSE	220	251	251	251	251	251	251		
		LONGITUDINAL	1683	1925	1925	1925	1925	1925	1925		
		WIND ON TOWER	NO WIND								
		DEAD LOAD	W.T OF TOWER x 1.1								
BROKEN (1) S.W. OR ANY ONE CONDUCTOR @ CASE NO.1	6	VERTICAL	250	593	1076	1076	1076	1076	1076		
		TRANSVERSE	553	1033	2026	2026	2026	2026	2026		
		LONGITUDINAL	2580	3936							
		WIND ON TOWER	595 kg/m^2 ON PROJECTED AREA OF WIND WARD FACE								
		DEAD LOAD	W.T OF TOWER x 1.1								
BROKEN (2) S.W. OR ANY ONE CONDUCTOR @ CASE NO.2	7	VERTICAL	779	1377	2643	2643	2643	2643	2643		
		TRANSVERSE	423	576	1152	1152	1152	1152	1152		
		LONGITUDINAL	3242	4413							
		WIND ON TOWER	NO WIND								
		DEAD LOAD	W.T OF TOWER x 1.1								

جدول پ ۳: بارگذاری برج کششی YTM-30

DESCRIPTION OF LOADING ASSUMPTION			SCHEDULE OF ULTIMATE LOADING (KG) ALLOWABLE								
			No.	LOADING TYPE	SW	Conductors					
					S1	C1	C2	C3	C4	C5	C6
HIGH WIND WIND 40 m/s ICE 0 mm TEMP 15 C	1	VERTICAL	402	915	915	915	915	915	915		
		TRANSVERSE	1768	3036	3036	3036	3036	3036	3036		
		LONGITUDINAL	0	0	0	0	0	0	0		
		WIND ON TOWER	595 kg/m^2 ON PROJECTED AREA OF WIND WARD FACE								
		DEAD LOAD	W.T OF TOWER x 1.1								
HEAVY ICE WIND 0 m/s ICE 15 mm TEMP -5 C	2	VERTICAL	1284	2221	2221	2221	2221	2221	2221		
		TRANSVERSE	1678	2284	2284	2284	2284	2284	2284		
		LONGITUDINAL	0	0	0	0	0	0	0		
		WIND ON TOWER	NO WIND								
		DEAD LOAD	W.T OF TOWER x 1.1								
NESC MEDIUM WIND 17.8 m/s ICE 6.5 mm TEMP -10 C	3	VERTICAL	891	1841	1841	1841	1841	1841	1841		
		TRANSVERSE	2650	3538	3538	3538	3538	3538	3538		
		LONGITUDINAL	0	0	0	0	0	0	0		
		WIND ON TOWER	268 kg/m^2 ON PROJECTED AREA OF WIND WARD FACE								
		DEAD LOAD	W.T OF TOWER x 1.5								
UNBALANCED WIND 25 m/s ICE 0-7 mm TEMP -10 C	4	VERTICAL	542	1154	1154	1154	1154	1154	1154		
		TRANSVERSE	1606	2236	2236	2236	2236	2236	2236		
		LONGITUDINAL	781	1120	1120	1120	1120	1120	1120		
		WIND ON TOWER	232 kg/m^2 ON PROJECTED AREA OF WIND WARD FACE								
		DEAD LOAD	W.T OF TOWER x 1.1								
STRINGING & MAINTENANCE WIND 0 m/s ICE 0 mm TEMP 20 C	5	VERTICAL	191	403	403	403	403	403	403		
		TRANSVERSE	436	499	499	499	499	499	499		
		LONGITUDINAL	1683	1925	1925	1925	1925	1925	1925		
		WIND ON TOWER	NO WIND								
		DEAD LOAD	W.T OF TOWER x 1.1								
BROKEN (1) S.W. OR ANY ONE CONDUCTOR @ CASE NO.1	6	VERTICAL	212	513	915	915	915	915	915		
		TRANSVERSE	884	1538	3036	3036	3036	3036	3036		
		LONGITUDINAL	2580	3936							
		WIND ON TOWER	595 kg/m^2 ON PROJECTED AREA OF WIND WARD FACE								
		DEAD LOAD	W.T OF TOWER x 1.1								
BROKEN (2) S.W. OR ANY ONE CONDUCTOR @ CASE NO.2	7	VERTICAL	653	1166	2221	2221	2221	2221	2221		
		TRANSVERSE	839	1142	2284	2284	2284	2284	2284		
		LONGITUDINAL	3242	4413							
		WIND ON TOWER	NO WIND								
		DEAD LOAD	W.T OF TOWER x 1.1								

جدول پ ۴: بارگذاری برج کششی و انتهایی YTM-60

DESCRIPTION OF LOADING ASSUMPTION	SCHEDULE OF ULTIMATE LOADING (KG) ALLOWABLE								
	No.	LOADING TYPE	SW	Conductors					
			S1	C1	C2	C3	C4	C5	C6
HIGH WIND WIND 40 m/s ICE 0 mm TEMP 15 C	1	VERTICAL	352	808	808	808	808	808	808
		TRANSVERSE	3012	4934	4934	4934	4934	4934	4934
		LONGITUDINAL	0	0	0	0	0	0	0
		WIND ON TOWER	595 kg/m^2 ON PROJECTED AREA OF WIND WARD FACE						
		DEAD LOAD	W.T OF TOWER x 1.1						
HEAVY ICE WIND 0 m/s ICE 15 mm TEMP -5 C	2	VERTICAL	1116	1940	1940	1940	1940	1940	1940
		TRANSVERSE	3242	4413	4413	4413	4413	4413	4413
		LONGITUDINAL	0	0	0	0	0	0	0
		WIND ON TOWER	NO WIND						
		DEAD LOAD	W.T OF TOWER x 1.1						
NESC MEDIUM WIND 17.8 m/s ICE 6.5 mm TEMP -10 C	3	VERTICAL	776	1616	1616	1616	1616	1616	1616
		TRANSVERSE	4698	6177	6177	6177	6177	6177	6177
		LONGITUDINAL	0	0	0	0	0	0	0
		WIND ON TOWER	268 kg/m^2 ON PROJECTED AREA OF WIND WARD FACE						
		DEAD LOAD	W.T OF TOWER x 1.5						
BROKEN S.W. OR ANY ONE CONDUCTOR @ CASE NO.1	4	VERTICAL	187	459	808	808	808	808	808
		TRANSVERSE	1506	2487	4934	4934	4934	4934	4934
		LONGITUDINAL	2580	3936					
		WIND ON TOWER	595 kg/m^2 ON PROJECTED AREA OF WIND WARD FACE						
		DEAD LOAD	W.T OF TOWER x 1.1						
BROKEN S.W. OR ANY ONE CONDUCTOR @ CASE NO.2	5	VERTICAL	569	1025	1940	1940	1940	1940	1940
		TRANSVERSE	1621	2207	4413	4413	4413	4413	4413
		LONGITUDINAL	3242	4413					
		WIND ON TOWER	NO WIND						
		DEAD LOAD	W.T OF TOWER x 1.1						
DEAD END (1) WITH NO LINE ANGLE @ CASE NO.2	6	VERTICAL	569	1025	1025	1025	1025	1025	1025
		TRANSVERSE	0	0	0	0	0	0	0
		LONGITUDINAL	3242	4413	4413	4413	4413	4413	4413
		WIND ON TOWER	NO WIND						
		DEAD LOAD	W.T OF TOWER x 1.1						
DEAD END (2) WITH 60' LINE ANGLE @ CASE NO.2	7	VERTICAL	569	1025	1025	1025	1025	1025	1025
		TRANSVERSE	1621	2207	2207	2207	2207	2207	2207
		LONGITUDINAL	2807	3822	3822	3822	3822	3822	3822
		WIND ON TOWER	NO WIND						
		DEAD LOAD	W.T OF TOWER x 1.1						