## 2. Wind loads:

- **2.1** American code (ASCE7-5/ ASCE7-10/ ASCE7-16) or European Code and any updated and amendments made to them or any other code after obtaining approval from the relevant authority.
- 2.2 reference to be made to the table bellow for the calculation of design wind speed (strength Design) and operational (Service Design) in addition to the load factor.

## Design wind speed (Strength Design)

Mean Recurrence interval (years)	Wind speed (m/s, 3-sec gust. 10m, open terrain)	
	Strength	Load factor
50 <sup>II</sup>	38	1.6*
1000 <sup>III.IV</sup>	40	1.6*
$300^{\mathrm{I}}$	44	1**
700 <sup>II</sup>	47	1**
1000	49	1**
501700 <sup>IIII</sup>	51	1**
$3000^{\mathrm{IV}}$	53	1**

<sup>\*</sup> to be used with Wind Load Factor of 1.6 for ASCE7-05 strength design approach(specified wind x load factor)

(I, II, III, IV are ASCE 7 Building Risk Categories)

## (Service Design)

Mean Recurrence interval (years)	Wind speed ( m/s, 3-sec gust. 10m, open terrain)	
	Strength	Load factor
1	22	1**
10	30	1**
25	34	1**
50	36	1**

<sup>\*\*</sup> be used with Wind Load Factor of 1.0 for ASCE7-10/ ASCE7-16 service design approach (serviceability limit state SLS wind load)

Wind speed for temporary structure is calculated as (32m/sec)

32m/sec (gust wind for 50 years return period building category II)

<sup>\*\*</sup> be used with Wind Load Factor of 1.0 for ASCE7-10/ ASCE7-16 strength design approach (ultimate limit state ULS wind load)