

## 7.5 Annexure-5 : The 132/11kV Substation Verification Guidelines

Document Title		Document Number	Issue	Rev.	Date
132/11kV Substation Building - Standard Plot Verification Guidelines		-	2	0	10/5/2021
SR.	Description	Category	Developer's Compliance		
<b>1</b>	<b>Technical Detailed Guidelines</b>				
<b>1.1</b>	<b>Plot's Conditions</b>				
1.1.1	The proposed plot should have a regular shape to facilitate all of the other technical requirements for a substation to be built.	DEWA Practice			
1.1.2	Size of the proposed plot should be adequate to architecturally fit all of the other technical space requirements. 60m (Width) x 50m (Length) (main road access from 60 m side)	DEWA Practice			
<b>1.2</b>	<b>Accessibility</b>				
1.2.1	The proposed plot should have proper road clear access where substation should be accessed directly from the road	DEWA Practice			
1.2.2	Width of the road should be minimum 10 meters to help big trucks to maneuver while accessing the site.	DEWA Practice			
<b>1.3</b>	<b>Plot's Surroundings</b>				
1.3.1	Plot's Surroundings should be shown clearly in proposed plot drawing.	DEWA Practice			
1.3.3	The proposed plot should be surrounded with a minimum of one clear road and one Sikka with a width of 7 meters.	DEWA Practice			
1.3.4	Gate Level & Levels of surroundings should be verified and sufficient. (if available)	DEWA Practice			
1.3.5	The available site infrastructure should be verified and sufficient. (shown clearly in the proposed plot)	DEWA Practice			
<b>1.4</b>	<b>Proposed Plot's Entrance Condition</b>				
1.4.1	Minimum of no.2 Gates should be provided to access the plot along the 60 meters side with a width of 6 meters.	DEWA Practice			
1.4.2	Gate location should be verified and suitable for the proposed layout.	DEWA Practice			
<b>1.5</b>	<b>Cable Corridors</b>				
1.5.1	Clear cable Corridors to be shown clearly in the proposed plot.	DEWA Practice			
1.5.2	11 kV outgoing cables should be in the arrangement of 4 sets of (2x10).	DEWA Practice			
1.5.3	Width of 11 kV Cable Corridor should be minimum of 2.5 meters for each set of 11 kV outgoing cables.	DEWA Practice			
1.5.4	2 meters gap shall be provided between every 2 sets of 11 kV outgoing cables.	DEWA Practice			
1.5.5	132 kV incoming cables should be in the arrangement of 4 sets of (2x4).	DEWA Practice			
1.5.6	Width of 132 kV Cable Corridor should be minimum of 10 meters.	DEWA Practice			

