

NEW WIND AND WIND-SOLAR PROJECT SITE  
PRE-FEASIBILITY REPORT:  
New Potential Site at Solapur  
(MAHARASHTRA)



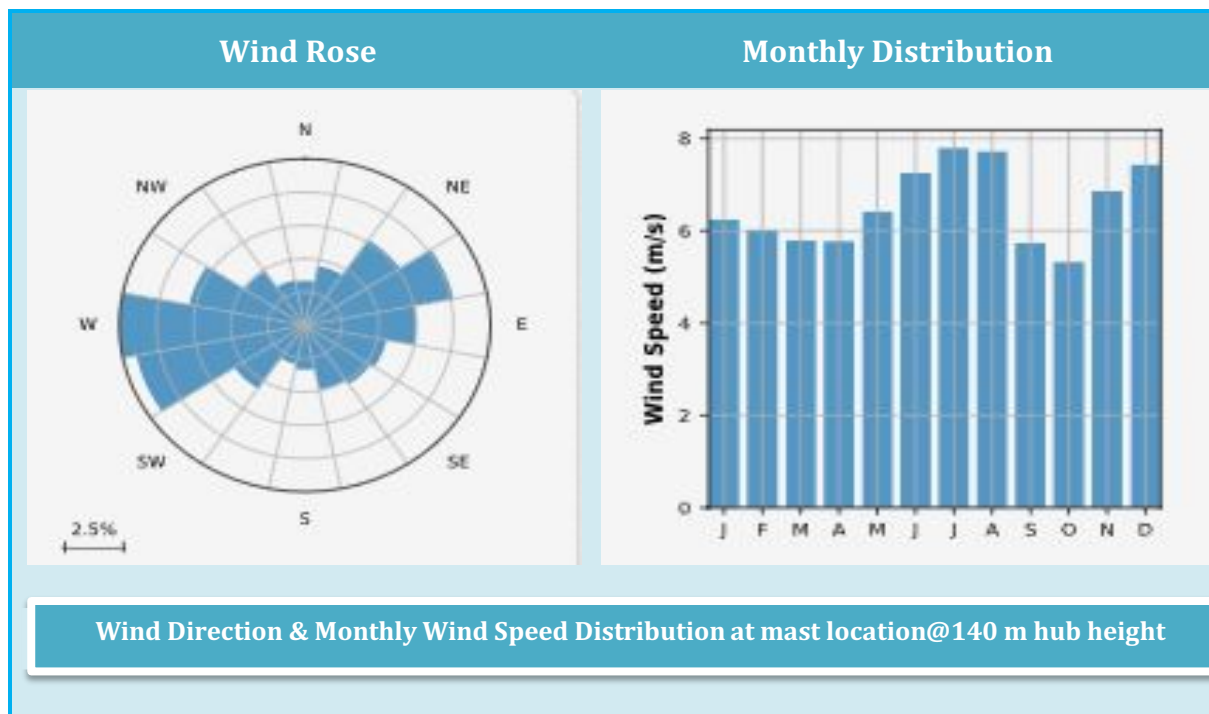
## Site Identification Report

Name of proposed site	Solapur	Wind Site potential, MW	More than 100MW
Location details of Proposed Site			
Nearby Village/Town	Tuljapur	Work Done by	-
District	Osmanabad	Reviewed & Approved by	WRA Head
State	Maharashtra	Date	04-09-2023

### Wind Resource Feasibility of Proposed Potential Area for Wind Development

Details of proposed sites					Details of nearest C-WET mast		
Site	Proposed Mast Co-ordinate	Elevation AMSL (m)	AWS Average Wind Speed(m/s) @140 m	Estimated Capacity (MW)	Nearest C-WET mast (height)	Distance of C-WET mast-Direction	Competitor mast average Wind speed(m/s)
Solapur	Lat : 17.XXXX°	653m	6.75	>100 MW			-
	Long 76.XXXX°						

### Wind Feasibility of Proposed Locations based on AWS Meso Map





Particulars	Wind Parameters
	@140 m Hub Height
<b>Latitude, Longitude</b>	Lat: 17.XXXX° Long: 76.XXXX°
<b>Wind Speed (m/sec)</b>	6.75 m/s
<b>Roughness</b>	0.07
<b>Elevation</b>	653
<b>Air Density (kg/m³)</b>	1.078
<b>Mean Power Density (W/m²)</b>	235
<b>Weibull A (m/sec)</b>	7.45
<b>Weibull K</b>	2.32
<b>Uncertainty (m/sec)</b>	0.5 +/-

Details of Nearest Power Evacuation Options		
Nearest available Substations	Voltage Level (kV)	Distance from the site
STU: Tuljapur	220 kV	20km
STU: Naldurg	132 kV	20km
CTU: Solapur	765/400 kV	Inside the boundary
<b>**Note:</b> Detailed technical feasibility of above power evacuation options need to be conducted & finalize.		

### **Land Cover and Land Type:**

The proposed wind farm located South to Osmanabad of Maharashtra. Since the proposed area is wind proven wind regime , so competitors wind mast is visible from the area. Terrain is elevated plain, vast open area with minimal undulation, scattered trees, surrounded by vegetation lands. Soil nature is black, very few hard rock sediments in the area, land cover is not so hard, ease for construction. No obstruction in the predominant direction. Wind farm layout elevation varies from 610m ~660m. Land type is purely private agricultural area, very few dry waste patches of government available for project development, it may occupy few number of WTG's of proposed.



## Site Feasibility Check

### Site Topographic Details

1.	Terrain/Geologic Description	:	Located at elevated plains of Marathwada region, area is Open and vast .slightly undulated terrain, black soil mixed with, red foam soil, rock soil sediments, agri lands, Bushes and scattered trees around the area.	
2.	Elevation	:	653 asl	
3.	Obstacles if any in prominent wind	:	No obstruction in predominant and East, Surrounded by competitor's wind mast.	
4.	Other Details	:	Logistically well connected with national highway, site is very close to NH( Aurangabad-Solapur Highway)	
5.	Attach Survey of India Topo Sheet with Boundary Markings	:	No	

### Site Accessibility Details

6.	Nearest Highway	:	Aurangabad- Solapur	
7.	State Highway	:	Osmanabad to Naldurg	
8.	Distance from other road i.e. village road	:	Tuljapur to Naldurg road.	

### Possibility of Approach Road

9.	Forest Land	:	Nil	
10.	Revenue Land	:	Nil	
11.	Private Land	:	Yes.	

### Details of nearest Sub-Station

12.	Name of the Sub-station	:	STU: Tuljapur 220kV SS	STU: Naldurg 132kV SS	PGCIL Solapur
13.	Capacity of the Sub-station, kV	:	220kV MSETCL	132kv MSETCL	765/400KV
14.	Distance from proposed site, km	:	14km	18km	Inside the boundary
15.	Spare Capacity available, MW	:	Unable to trace out.		

### Details of nearby Wind Farms/competitors activity

16.	Name of wind Farm	:			
17.	Capacity of the Farm, MW	:			
18.	Type & rating of machines used	:			
19.	Location details of the Wind Farm	:			
20.	Wind data Availability	:			
21.	PLF being generated, %	:			
22.	Competitor's activity details.	:			



## Photographs of Proposed Site



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