

شرایط جغرافیایی سایت طراحی، تامین تجهیزات، پیاده سازی، ساخت، نصب، تست، راه اندازی، تضمین عملکرد
و آموزش بهره برداری از سیستم تصفیه خانه تکمیلی شرکت فولاد آلیاژی ایران به روش EPC



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1	PASY0401		ETP	T	A4	00	004	C	1404-08-24



شرکت فولاد آلیاژی ایران (سامی عام)

شرکت فولاد آلیاژی ایران

پیوست شماره 1-2

شرایط جغرافیایی سایت

Site Condition



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1. SITE CONDITIONS

1.1. LOCATION

The Site is located about to the west of city YAZD, Province of YAZD in the center of IRAN, approximately 20 km to the YAZD, 1250 m above sea level, and flanked by mountains over 2500 m high trending northwest to southwest.

1.2. TEMPERATURES

Max. ambient air temperature	Recorded	45°C
	Design	40°C
Min. ambient air temperature	Recorded	-16°C
	Design	-10°C
Average, ambient air temperature	Design	26.2°C
Wet bulb temperature (summer)	Design	+25°C

1.3. WIND

For the Purposes of Plant design the following will apply: Main wind direction SE to NW
Basic wind speed 35 m/s

1.4. RAINFALL

Yearly rainfall	Average	63mm
Max. Monthly rainfall		136mm

1.5. OTHERS

Max. relative humidity	50%
Atmospheric pressure	871mbar
Pollution level (creepage)	Heavy (25 mm/kv)

1.6. GEOLOGICAL CONDITIONS

(For more information refer to attached “Geotechnical Study”)

1.6.1. Geotechnical Information:

The approximate parameters of the site are extracted from geotechnical explorations performed by PEYKAV consultant engineering at site.

Due to slope of ground surface and the floodways, necessary precautions should be considered for water entry prevention.



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1.6.1. Geotechnical Profiles:

The subsurface formation to a depth of 20m contains gravel and sand with a low quantity of silt and clay which is classified as GP to GP-GC and often SC according to USCS.

Considering standard penetration test, the site soil categorized as very dense.

1.6.2. Physical & Mechanical Properties of Soil:

Refer to attached “Geotechnical Study”

1.6.3. Chemical Properties:

According to chemical tests performed on soil samples the total sulfate and chloride content & PH value are as follows:

Sulfate content (as SO_4^{2-}): about 0.32%

Chloride: about 0.26%

PH: 6.7 to 7.4

Note: Considering high level of sulfate, cement type II with micro silica and strong super plasticizer should be used. Cement content shall not be less than 310 kg/m³.

1.6.4. Soil seismic data:

The ground type: type II
($T_0=0.5$). The design base acceleration: 0.25g.

Important Note:

The mentioned parameters are just for information and comprehensive geotechnical investigations should be considered as contractor scope of work.