



Resalat Oil Field Development Project Phase 1 (EPC-EPD)



Contract No.

Data Sheet for NER

Class

2

5365

Pr. Code

Unit

Disc.

Doc.

Seq.

Rev.

L RSL

R1X

EL

DS

007

03

Page 1 of 4

Data Sheet for NER

					<i>H. Sabzi</i>	<i>A. S.</i>	<i>M. A.</i>	
03	14-Nov-21	Approved for Construction	IOEC	-	H.Sabzi	A.Samadi	M.Ahgaei	-
02	27-Jul-21	Issued for Approval	IOEC	-	S.Saffari	A.Samadi	M.Ahgaei	-
01	29-Jun-21	Issued for Approval	IOEC	-	S.Saffari	A.Samadi	M.Ahgaei	-
00	11-May-21	Issued for Comment	IOEC	-	S.Saffari	A.Samadi	M.Ahgaei	-
Rev.	Date	Purpose of Issue	ORIG.	BY	PREP'D	CHECK'D	APP'D	COMPANY APP'D



Resalat Oil Field Development Project Phase 1 (EPC-EPD)



Contract No.

Data Sheet for NER

Class

2

5365

Pr. Code

Unit

Disc.

Doc.

Seq.

Rev.

Page 3 of 4

LRSL

R1X

EL

DS

007

03

Tag : LRSL-11-NGR-0301A/B

Quantity : 2

Reference Documents: LRSL-000-PR-DB-706 (Process Design Basis), LRSL-000-EL-DB-603 (Electrical Design Criteria), LRSL-R1X-EL-SD-007 (Overall Single Line Diagram), LRSL-000-MW-SP-744 (Specification for Painting), LRSL-R1X-EL-LI-006 (Electrical power & control Cable list).

Reference Standards: IEC, IEEE, IPS

DESIGN DATA

BASE DATA	Manufacturer:	
	Model Number:	
	Power System voltage (Un) : 2.2kV	
	Line to Neutral Voltage: $2.2kV/\sqrt{3}$	
	Frequency : 50Hz	
	Voltage variation: $\pm 10\%$	
	Frequency variation: $\pm 5\%$	
	Time Duration Rating: 10Sec	
	Current Rating: 100A	
	Resistance: 12.7Ω	
	Maximum Temperature Rise: 610°C	
Auxiliary supply: 230VAC External		
ENVIRONMENTAL CONDITIONS	Ambient Temperature: Max. 40°C Min. 7°C	Maximum Relative Humidity: 100%
	Altitude (Sea Level): Less than 1000m	Seismic Zone: Refer to "Process Design Basis"
	Area classification: Safe	
SPECIFICATION OF RESISTOR	Nominal Rating:	VTS
	Resistance at Max Temperature:	VTS
	Resistance at Min Temperature:	VTS
	Resistance at Max Temperature Rise:	VTS
	Material of Resistor:	High Grade Chromium Stainless Steel
	Construction:	VTS
	Conductor Connection Material:	Stainless Steel
	Connection:	Bolted
Bolts and Nuts:	Stainless Steel	
INSULATOR	Insulator Material:	VTS
FRAME SPECIFICATION	Installation	Indoor
	Protection Degree of Terminal Box	IP23
	Protection Degree of Enclosure	IP23
	Length	VTS
	Width	VTS
	Height	VTS
	Weight	VTS
	Enclosure Material	Stainless Steel
	Nameplate Material	Stainless Steel
	Painting	RAL 7032
	Type of Cooling	Natural
ACCESSORIES PARTS	Current Transformer:	Required
	Current Transformer Specification:	100/1A, 5P10, 20VA, 1000/5A, 5P20, 20VA (NOTE1)
	Terminal Box for Current Transformer	Required
	Disconnecter Switch (Contactor)	Not Required
	Fault Detector & Alarm System	Required
	Heater:	Required
	Heater Specification:	VTS
	Incoming Entry of Cable:	Refer to "LRSL-R1X-EL-LI-006"
Grounding Entry of Cable:	Cable 1x150mm ²	

NOTE1: This CT is used for Restricted Earth Fault portection.



Resalat Oil Field Development Project Phase 1 (EPC-EPD)



Contract No.

Data Sheet for NER

Class

2

5365

Pr. Code

Unit

Disc.

Doc.

Seq.

Rev.

LRSL

R1X

EL

DS

007

03

Page 4 of 4

Tag : LRSL-11-GNGR-0301/0302/0303

Quantity : 3 NOTE 2

Reference Documents: LRSL-000-PR-DB-706 (Process Design Basis), LRSL-000-EL-DB-603 (Electrical Design Criteria), LRSL-R1X-EL-SD-007 (Overall Single Line Diagram), LRSL-000-MW-SP-744 (Specification for Painting), LRSL-R1X-EL-LI-006 (Electrical power & control Cable list), LRSL-R1X-EL-DS-008 (Data Sheet for Synchronous Generator), LRSL-R1X-EL-SM-001 (Schematic diagram for MV Switchgear).

Reference Standards: IEC, IEEE, IPS

DESIGN DATA

BASE DATA	Manufacturer:	
	Model Number:	
	Power System voltage (Un) : 6.6kV	
	Line to Neutral Voltage: $6.6kV/\sqrt{3}$	
	Frequency : 50Hz	
	Voltage variation: $\pm 10\%$	
	Frequency variation: $\pm 5\%$	
	Time Duration Rating: By Manufacturer of Generator	
	Current Rating: By Manufacturer of Generator	
	Resistance: By Manufacturer of Generator	
	Maximum Temperature Rise: 610°C	
Auxiliary supply: By Manufacturer of Generator		
ENVIRONMENTAL CONDITIONS	Ambient Temperature: Max. 40 °C Min. 7 °C	Maximum Relative Humidity: 100%
	Altitude (Sea Level): Less than 1000m	Seismic Zone: Refer to "Process Design Basis"
	Area classification: Safe	
SPECIFICATION OF RESISTOR	Nominal Rating:	VTS
	Resistance at Max Temperature:	VTS
	Resistance at Min Temperature:	VTS
	Resistance at Max Temperature Rise:	VTS
	Material of Resistor:	High Grade Chromium Stainless Steel
	Construction:	VTS
	Conductor Connection Material:	Stainless Steel
	Connection:	Bolted
Bolts and Nuts:	Stainless Steel	
INSULATOR	Insulator Material:	VTS
FRAME SPECIFICATION	Installation	Indoor
	Protection Degree of Terminal Box	IP23
	Protection Degree of Enclosure	IP23
	Length	VTS
	Width	VTS
	Height	VTS
	Weight	VTS
	Enclosure Material	Stainless Steel
	Nameplate Material	Stainless Steel
	Painting	RAL 7032
	Type of Cooling	Natural
ACCESSORIES PARTS	Current Transformer:	Required
	Current Transformer Specification:	By Manufacturer of Generator
	Terminal Box for Current Transformer	Required
	Disconnecter Switch (Contactor)	Required
	Fault Detector & Alarm System	Required
	Heater:	Required
	Heater Specification:	VTS
	Incoming Entry of Cable:	By Manufacturer of Generator
Grounding Entry of Cable:	By Manufacturer of Generator	

NOTE2: These 3 NGRs shall be designed and supplied by Manufacturer of Generators and will be installed in the container of Generators.