The PLC shall be based on proven and reliable technology satisfying TUV requirements and approvals for SIL-3 according to IEC-61511 or AK6 according to DIN V 19250.

conclusion meeting (2024/02/17):

S7-300 F is accepted by client for PLC

For shutdown related signals, the IO card shall be fail safe, SIL3 and redundant.

conclusion meeting(2024/02/17):

comment is applicable for ESD signals

Power supply, CPU and communication modules of PLC to be redundant.
For close control loop (If any), the redundant IO card, shall be considered.
conclusion meeting (2024/02/17):
power supply, communication modules of PLC to be redundant.
For close control loop (If any), the redundant IO card, shall be considered.

ESD

DCS

UCP
40-RFU-821A

HMI

POWER SUPPLY
(2X110VAC +230VAC)

MC

One operator station (including PC, monitor, keyboard, mouse and relevant interconnection cables to PLC panel) shall be considered for installation in control room.
conclusion meeting(2024/02/17):
engineering laptop including related software instead of operator station shall be considered
field instrument transmitters shall be considered as EXi

400V 3PH 50HZ

400V 3PH 50HZ

FIELD

JB

LOCAL CONTROL STATION
(40-LCP-821A)

H
OIL HEATER

M
AUX. MOTOR

M
MAIN MOTOR

Please note that LCP (local control panel) is in vendor scope of work/supply and all motors and heaters (main motors and auxiliaries) shall be controlled via this Local Control Panel. All control signals- commands and indications will be sent from this vendor local control panel to the UCP and then will be transferred to MCC from UCP based on agreement between electrical and instrument department. Please confirm.

conclusion meeting (2024/02/17):

noted

Note that this local control panel which is located in field, shall be suitable for hazardous area Zone2, gas group IIC and temp. class T3. Please confirm and consider it in your offer.

Vendor reply: LCP is suitable for Hazardous Area zone 2

NOTE

REFERENCE DOCUMENTS	DOC. NO.

LEGEND

- TRANSMITTER
- CONTROL VALVE
- SOLENOID VALVE
- HARDWIRE SIGNALS
- MODBUS TCP/IP (ETHERNET CABLE)

EQUIPMENT LIST

REV.	DATE		PREP. BY	CHKD. BY	APPD. BY	AUTH. BY
00	13-AUG-22	FOR APPROVAL	H.K.	M.O.	A.M.	A.M.

EIED
Contract No. SMC-H-19/804

SCALE: N.T.S

DRAWING TITLE:

CONTROL SYSTEM BLOCK DIAGRAM

DRAWING NO.	Class	REV.	SHEET No.	SIZE
	1	00	1 OF 1	A3