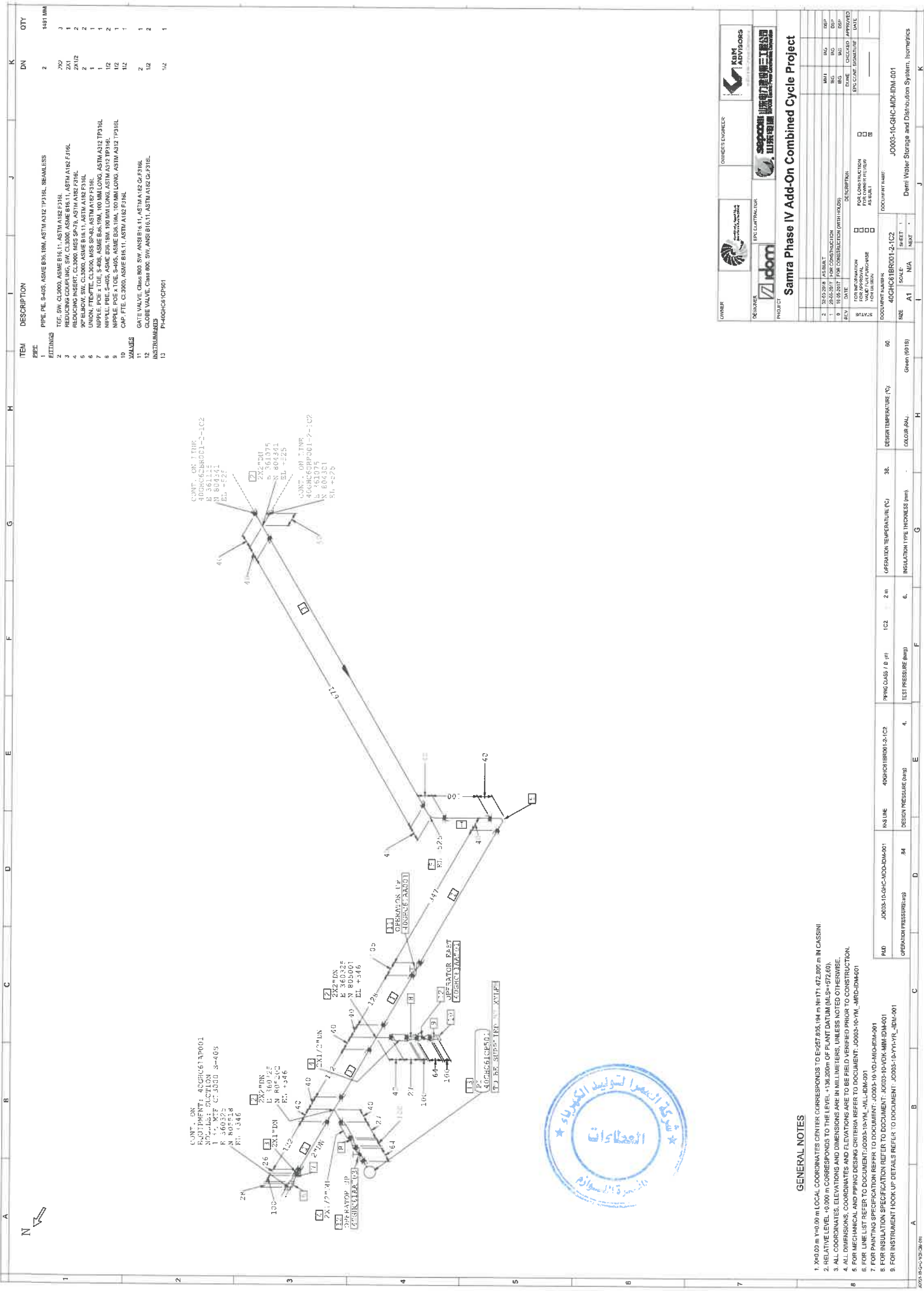


	UNITS	REQUESTED	PROVIDED BY VENDOR
<b>1 GENERAL DATA</b>			
1.1		Number of pumps	2x110%
1.2		KKS numbers	40GHC61 AP001 / 40GHC62 AP001
1.3		Manufacturer / Model	(Note 1)
1.4		Installation	Outdoor
1.5		Design and manufacturing codes	ISO 9905, 5199, 9908 or equivalent (Note 1)
1.6		Service	Demineralized water distribution
1.7		Pumped Fluid	Demineralized water
1.8	°C	Temperature min / max	1 / 43
1.9	kg/m3	Density	1000 (at 5°C)
<b>2 PUMPS RATED POINT</b>			
2.1	m3/h	Flow per pump at discharge	12.852
2.2	m	Required Total Dynamic Head	35.96
2.3	m	NPSH available / required	7,209 / 4,758 maximum (Note 5)
2.4	bar a	Suction pressure	0,762 to 1,836 (Note 6)
2.5	m	TDH at shutoff	135% of rated TDH (Note 2)
2.6	m3/h	Minimum flow	30% of rated flow (Note 7)
2.7	bar g	Design pressure / hydraulic test pressure	(Note 1)
2.8	%	Efficiency at design point	(Note 1)
2.9	kW	Pump power	(Note 1)
2.10	rpm	Pump Speed	(Note 1)
<b>3 TECHNICAL FEATURES</b>			
3.1		Pump type	Horizontal centrifugal
3.2		Pump model	(Note 1)
3.3		Number of stages	1
3.4		Impeller diameter	
3.4.1	mm	Rated	(Note 1)
3.4.2	mm	Max	At least 4 mm bigger than rated impeller
3.4.3	mm	Min	(Note 1)
3.5		Mechanical seal	Included
3.6		Mechanical seal fluid	Pumped fluid
3.7	rpm	Motor-pump assembly first critical speed	> 120% of nominal speed
3.8	rpm	Max. reversal speed allowable for the motor-pump assembly	(Note 1)
3.9		Motor-pump coupling	Flexible adjustable with spacer (Note 9)
3.10		Radial bearing type	(Note 1)
3.11		Axial bearing type	(Note 1)
3.12		Lubrication	(Note 1)
3.13		Lubrication piping	(Note 1)
<b>4 DRIVER</b>			
4.1		Motor Type	TEFC
4.2		Motor Manufacturer	(Note 1)
4.3	(V / - / Hz)	Motor Voltage/Phase/Frequency	400 / 3 / 50
4.4	(kW)	Motor Nominal power	(Note 1)
4.5	(A / -)	Motor Rated current / Ratio starting current - rated current	d starting current is not exceed 5.5 times rated current
4.6	rpm	Motor Speed	Single speed
4.7	IP	Enclosure Classification	
4.8		Motor indoor/outdoor	IP 54/IP 55
4.9		Terminal boxes and other equipment	IP 65
4.10		Motor Insulation class / Maximum heating class	F / B
4.11		Motor Accesories	
<b>5 MATERIALS (note 1)</b>			
5.1		Pump-motor support base	Structural steel ASTM A36 or equivalent
5.2		Pressure casing	AISI 316 or equivalent
5.3		Inner case parts	AISI 316 or equivalent
5.4		Impeller	AISI 316 or equivalent
5.5		Wear rings	Hard faced AISI 316 or equivalent
5.6		Shaft	AISI 316 or equivalent
5.7		Bushings	AISI 316 or equivalent
5.8		Case and gland studs	AISI 4140 or equivalent
5.9		Case gasket	AISI 316 spiral wound
<b>6 ACCESORIES</b>			
6.1		Anchor (foundation) bolts	Included
6.2		Vent/Drains valves in the casing	Included
6.3		Motor winding temperature	(Note 1)
6.4		Pressure gauge (suction and discharge)	Included
6.5		Filters upstream pumps (one per each pump) including PDIT (Instruments)	Included (Note 10)
6.7		Counter flange, gasket, bolts, nuts, washers in vendor scope	Included
<b>7 DIMENSIONS AND LOADS</b>			
7.1	mm	Pump size (length / width / height)	(Note 1)
7.2	mm	Motor size (length / width / height)	(Note 1)
7.3	mm	Total assembled group (length / width / height)	(Note 1)
7.4		Weights	(Note 1)
7.5	kg	Pump	(Note 1)
7.6	kg	Electric motor	(Note 1)
7.7	kg	Total (empty)	(Note 1)
7.8	kg	Total (full of water)	(Note 1)
<b>8 CONNECTIONS</b>			
8.1		Suction nozzle (diameter / type and class)	(Note 1) / flanged RF ASME B16.5 class 150
8.2		Discharge nozzle (diameter / type and class)	(Note 1) / flanged RF ASME B16.5 class 150
8.3	kg	Max. forces on nozzles Fx/Fy/Fz	2 times API 610 loads
8.4	kg-m	Max. moments on nozzles Mx/My/Mz	2 times API 610 loads



	UNITS	REQUESTED	PROVIDED BY VENDOR
9 PAINTING			
9.1 Painting		accordance with ISO 12944-5 for the appropriate environment category (C3, Im1, Im2 and Im3)	
14 SCOPE OF SUPPLY			
10.1 Mechanical/main scope		REQUIRED	OFFERED
10.2 Pump units (including electric driver, coupling and auxiliary systems)		By vendor	
10.3 Piping, valves and supports within the package		By vendor	
10.4 System integration into a skid mounted package		By vendor	
10.6 Anchor bolts and embedment parts		By vendor	
10.7 Electrical scope			
10.8 Instrumentation and control scope			
<p>Notes:</p> <p>(1) Vendor to provide or verify.</p> <p>(2) The pump head curve must be continuously rising with a shutoff head is 135% of rated head, and must be constantly decrease maintaining a uniform slope from the point of zero flow to the design point.</p> <p>(3) The pump and driver shall be capable of continuous operation at 110% of rated flow.</p> <p>(4) Minimum driver efficiency = 90 % @ rated point.</p> <p>(5) NPSH required must be lower than 66% of available NPSH.</p> <p>(6) Suction pressure will vary in the indicated range based on the level of the corresponding tank.</p> <p>(7) The pump must be able to pump at least a minimum flow of 30% of rated flow. MCSF &lt;=30% of rated flow</p> <p>(8) All cooling needs of the pump must be satisfied with the pumped fluid.</p> <p>(9) The pump and motor shall be coupled by a flexible coupling incorporating a spacer of sufficient length to allow dismantling of the pump bearings and shaft seals without disturbing the motor or piping.</p> <p>(10) Pressure drop for pump filter has been estimated 0,3 bar. If pressure drop is higher shall be considered in the pump TDH and NPSHa</p> <p>(11) The pump should operate within a Preferred Operating Region of 70 % to 120 % of best efficiency flowrate of the pump, and Rated flow shall be within the region of 80 % to 110 % of best efficiency flowrate of the pump, and the Allowable Region from MCSF to halfway between the end of the POR and end of the curve or based on vibration within the upper limit of this International Standard or temperature rise or other limitation, specified by the manufacturer</p>			





ITEM	DESCRIPTION	DN	QTY
1	PIPE, P.E. S-405, ASME B36.19M, ASTM A312 TP316L, SEAMLESS	2	1491 MM
2	TEE, SW, CL3000, ASME B16.11, ASTM A182 F316	2X2	3
3	REDUCING COUPLING, SW, CL3000, ASME B16.11, ASTM A182 F316	2X1	1
4	REDUCING INSERT, CL3000, ASME SP-78, ASTM A182 F316L	2X1/2	2
5	WELDED END, SW, CL3000, ASME B16.11, ASTM A182 F316L	2	2
6	WELDED END, SW, CL3000, ASME B16.11, ASTM A182 F316L	2	2
7	WELDED END, SW, CL3000, ASME B16.11, ASTM A182 F316L	1	1
8	WELDED END, SW, CL3000, ASME B16.11, ASTM A182 F316L	1/2	2
9	WELDED END, SW, CL3000, ASME B16.11, ASTM A182 F316L	1/2	1
10	WELDED END, SW, CL3000, ASME B16.11, ASTM A182 F316L	1/2	1
11	GATE VALVE, Class 800, SW, ANSI B16.41, ASTM A182 Q/F316L	2	1
12	GLOBE VALVE, Class 800, SW, ANSI B16.11, ASTM A182 Q/F316L	1/2	2
13	INSTRUMENTS	1/2	1

OWNER	DESIGNER	PROJECT
KAM ADVISORS	idbm	Samra Phase IV Add-On Combined Cycle Project

NO.	DATE	DESCRIPTION	BY	CHECKED	DATE
1	2023/08/10	FOR CONSTRUCTION			
2	2023/08/10	FOR CONSTRUCTION			

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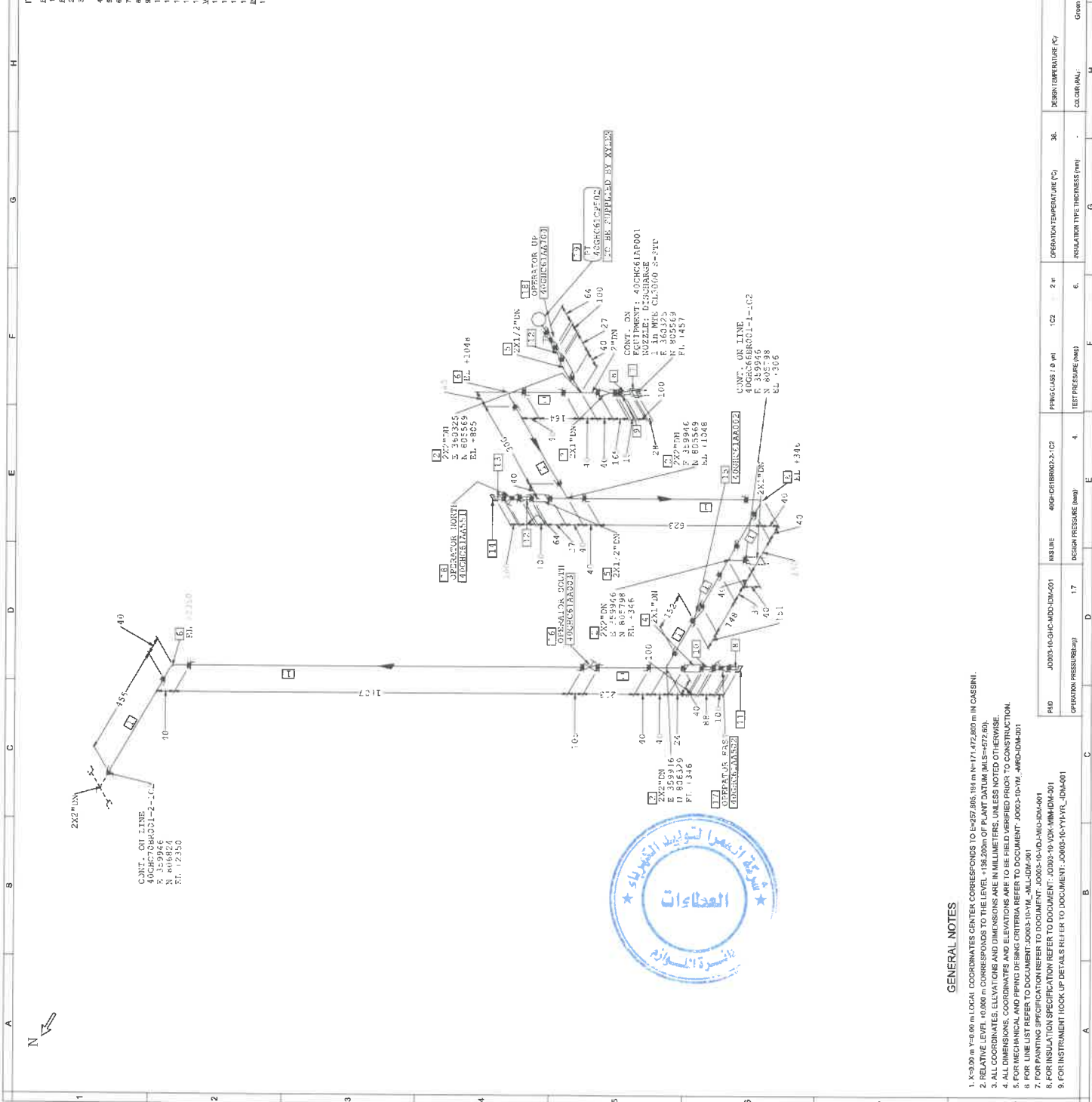
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2	2023/08/10	FOR CONSTRUCTION			

GENERAL NOTES

1. 240.00 m (787.00 ft) LOCAL COORDINATES CENTER CORRESPONDS TO E=257 895.84 m, N=171 472.890 m IN CASSINI
2. RELATIVE LEVEL +0.000 m CORRESPONDS TO THE LEVEL +36.200m OF PLANT DATUM (A.S.)
3. ALL COORDINATES, ELEVATIONS AND DIMENSIONS ARE IN MILLI METERS, UNLESS NOTED OTHERWISE.
4. ALL DIMENSIONS, COORDINATES AND DIMENSIONS ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
5. FOR MECHANICAL AND PIPING DESIGN CRITERIA REFER TO DOCUMENT: J0003-10-YM-MJD-IDM-001
6. FOR LINE LIST REFER TO DOCUMENT: J0003-10-YM-MJD-IDM-001
7. FOR PAINTING SPECIFICATION REFER TO DOCUMENT: J0003-10-YD-MJD-IDM-001
8. FOR INSULATION SPECIFICATION REFER TO DOCUMENT: J0003-10-YD-MJD-IDM-001
9. FOR INSTRUMENT HOOK UP DETAILS REFER TO DOCUMENT: J0003-10-YV-MJD-IDM-001



ITEM	DESCRIPTION	DN	QTY
1	PIPE, PE S-405, ASME B16.11, ASTM A312 TP316L, SEAMLESS	2	3812 MM
2	TEE, SW, CL3000, ASME B16.11, ASTM A182 F316	2X2	4
3	CONCENTRIC SWAGED, PEPPER, S-405 x S-405, CL3000, MSS SP-98, ASTM A403 TP316L	2X1	1
4	REDUCING INSERT, CL3000, MSS SP-98, ASTM A182 F316L	2X1	1
5	FLANGE, SW, CL3000, ASME B16.5, ASTM A182 F316L	2X1/2	2
6	SPWELDS, SW, CL3000, ASME B16.11, ASTM A182 F316L	1	1
7	UNION, 1/2" BPT, CL3000, MSS SP-98, 100 MM LONG, ASTM A312 TP316L	1	1
8	NIPPLE, POE A TO E, S-405, ASME B16.11, 100 MM LONG, ASTM A312 TP316L	1	1
9	COMPLING, SW, CL3000, ASME B16.11, ASTM A182 F316L	1	1
10	FLANGE, SW, CL3000, ASME B16.5, ASTM A182 F316L	1	1
11	COMP. FTE, CL3000, ASME B16.11, METRIC, 100 MM LONG, ASTM A312 TP316L	1	1
12	NIPPLE, POE A TO E, S-405, ASME B16.11, 100 MM LONG, ASTM A312 TP316L	1/2	2
13	NIPPLE, POE A TO E, S-405, ASME B16.11, 100 MM LONG, ASTM A312 TP316L	1/2	1
14	COMP. FTE, CL3000, ASME B16.11, ASTM A182 F316L	1/2	1
15	VALVES	2	1
16	BALL CHECK VALVE, CLASS 800, SW, ANSI B16.11, ASTM A182 G/F316L	2	1
17	GLOBE VALVE, CLASS 800, SW, ANSI B16.11, ASTM A182 G/F316L	1	1
18	GLOBE VALVE, CLASS 800, SW, ANSI B16.11, ASTM A182 G/F316L	1/2	7
19	FLANGES, CL3000	1/2	1
20	FLANGES, CL3000	1/2	1



**OWNER** **OWNER'S ENGINEER**

**DESIGNER** **ERC CONTRACTOR**

**PROJECT** **Samra Phase IV Add-On Combined Cycle Project**

**CLIENT** **山石电业**

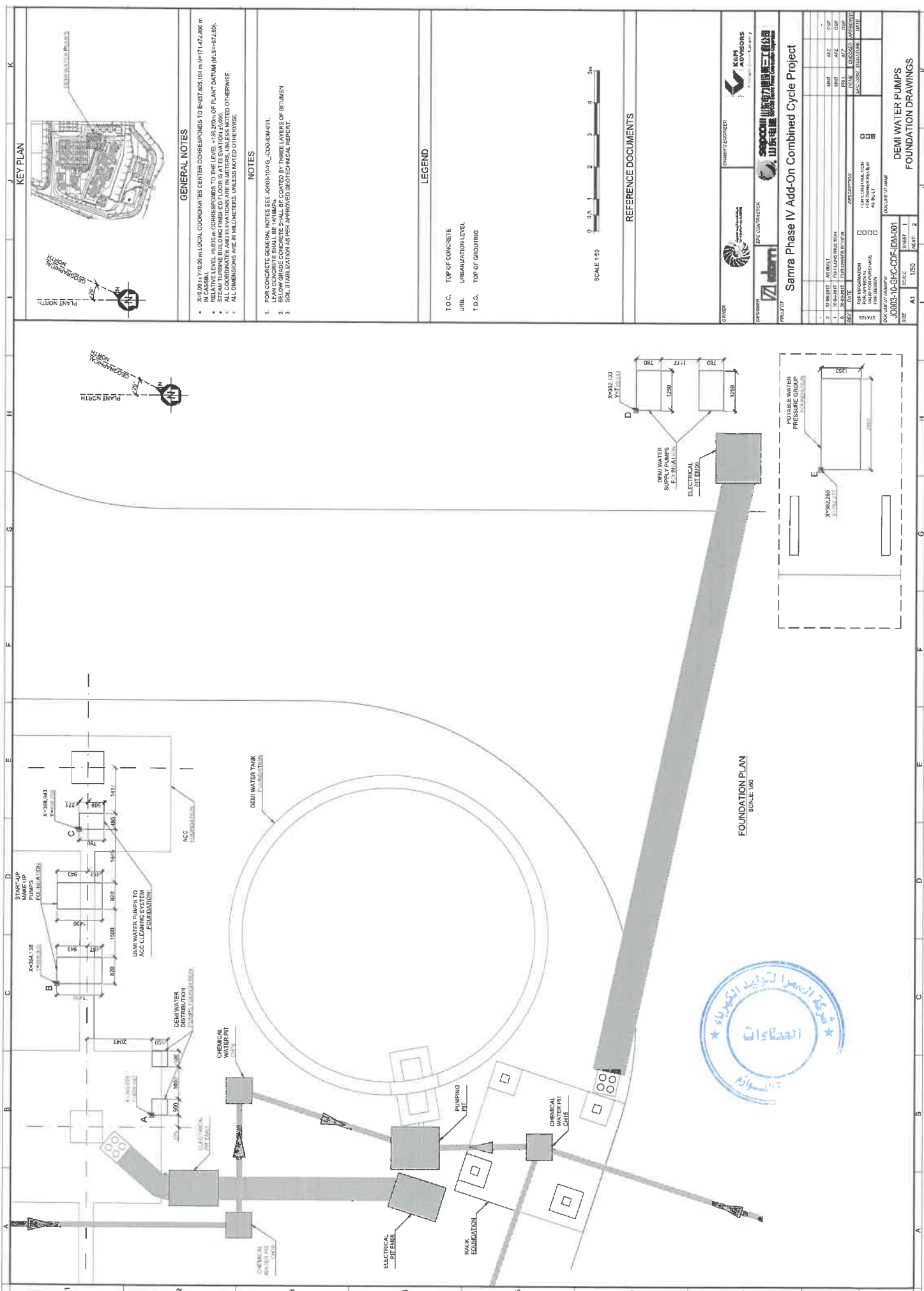
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1	ISSUE FOR CONSTRUCTION				
2	FOR INFORMATION				

**DOCUMENT NUMBER** 4003-10-GHC-MID-DM-001  
**SCALE** 1:1  
**SHEET** 1  
**TOTAL SHEETS** 1

ITEM	DESCRIPTION	UNIT	QTY
1	PIPE, PE S-405, ASME B16.11, ASTM A312 TP316L, SEAMLESS	M	3812
2	TEE, SW, CL3000, ASME B16.11, ASTM A182 F316	PCS	4
3	CONCENTRIC SWAGED, PEPPER, S-405 x S-405, CL3000, MSS SP-98, ASTM A403 TP316L	PCS	1
4	REDUCING INSERT, CL3000, MSS SP-98, ASTM A182 F316L	PCS	1
5	FLANGE, SW, CL3000, ASME B16.5, ASTM A182 F316L	PCS	2
6	SPWELDS, SW, CL3000, ASME B16.11, ASTM A182 F316L	M	1
7	UNION, 1/2" BPT, CL3000, MSS SP-98, 100 MM LONG, ASTM A312 TP316L	PCS	1
8	NIPPLE, POE A TO E, S-405, ASME B16.11, 100 MM LONG, ASTM A312 TP316L	PCS	1
9	COMPLING, SW, CL3000, ASME B16.11, ASTM A182 F316L	PCS	1
10	FLANGE, SW, CL3000, ASME B16.5, ASTM A182 F316L	PCS	1
11	COMP. FTE, CL3000, ASME B16.11, METRIC, 100 MM LONG, ASTM A312 TP316L	PCS	1
12	NIPPLE, POE A TO E, S-405, ASME B16.11, 100 MM LONG, ASTM A312 TP316L	PCS	2
13	NIPPLE, POE A TO E, S-405, ASME B16.11, 100 MM LONG, ASTM A312 TP316L	PCS	1
14	COMP. FTE, CL3000, ASME B16.11, ASTM A182 F316L	PCS	1
15	VALVES	PCS	1
16	BALL CHECK VALVE, CLASS 800, SW, ANSI B16.11, ASTM A182 G/F316L	PCS	1
17	GLOBE VALVE, CLASS 800, SW, ANSI B16.11, ASTM A182 G/F316L	PCS	1
18	GLOBE VALVE, CLASS 800, SW, ANSI B16.11, ASTM A182 G/F316L	PCS	7
19	FLANGES, CL3000	PCS	1
20	FLANGES, CL3000	PCS	1

**GENERAL NOTES**

1. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN METERS.
2. RELATIVE LEVEL 10.000 m CORRESPONDS TO THE LEVEL OF THE CENTERLINE OF THE MAIN PIPE.
3. ALL DIMENSIONS, ELEVATIONS AND DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
4. ALL DIMENSIONS, COORDINATES AND ELEVATIONS ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
5. FOR MECHANICAL AND PIPING DESIGN CRITERIA REFER TO DOCUMENT: J003-10-YM-MID-DM-001
6. FOR PAINTING SPECIFICATION REFER TO DOCUMENT: J003-10-YM-MID-DM-001
7. FOR INSTRUMENT HOOD UP DETAILS REFER TO DOCUMENT: J003-10-YM-MID-DM-001
8. FOR INSULATION SPECIFICATION REFER TO DOCUMENT: J003-10-YM-MID-DM-001
9. FOR INSTRUMENT HOOD UP DETAILS REFER TO DOCUMENT: J003-10-YM-MID-DM-001



KEY PLAN



GENERAL NOTES

- X=6100 m, Y=1000 m LOCAL COORDINATES CENTER CORRESPONDS TO E=527.865, N=14 m (N=171.472, 600 m PLASSIN).
- STEAM TURBINE BUILDING FINISHED FLOOR IS AT ELEVATION 40.00.
- ALL COORDINATES AND ELEVATIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS NOTED OTHERWISE.

NOTES

- FOR CONCRETE GENERAL NOTES SEE JORDS-10-VG\_CDD-10M-01.
- BELOW GRADE CONCRETE SHALL BE COVERED BY THREE LAYERS OF BITUMEN.
- SOIL STABILIZATION AS PER APPROVED GEOTECHNICAL REPORT.

LEGEND

- T.O.C. TOP OF CONCRETE
- URB. URBANIZATION LEVEL
- T.O.G. TOP OF GROUTING



REFERENCE DOCUMENTS



FOUNDATION PLAN  
SCALE: 1:50

OWNER:

DESIGNER:

OWNER'S ENGINEER:

PROJECT: **Samra Phase IV Add-On Combined Cycle Project**

NO.	REV.	DESCRIPTION	DATE
1	1	ISSUED FOR PERMIT	15/05/2024
2	1	ISSUED FOR PERMIT	15/05/2024
3	1	ISSUED FOR PERMIT	15/05/2024
4	1	ISSUED FOR PERMIT	15/05/2024
5	1	ISSUED FOR PERMIT	15/05/2024
6	1	ISSUED FOR PERMIT	15/05/2024
7	1	ISSUED FOR PERMIT	15/05/2024
8	1	ISSUED FOR PERMIT	15/05/2024
9	1	ISSUED FOR PERMIT	15/05/2024
10	1	ISSUED FOR PERMIT	15/05/2024

FOR INFORMATION FOR WATER TOWER FOR PERMIT  
FOR PERMIT  
FOR PERMIT

DATE: 15/05/2024

SCALE: 1:50

PROJECT NO: JORDS-10-VG-CDD-10M-01

FOUNDATION DRAWINGS

DEMI WATER PUMPS

FOUNDATION DRAWINGS



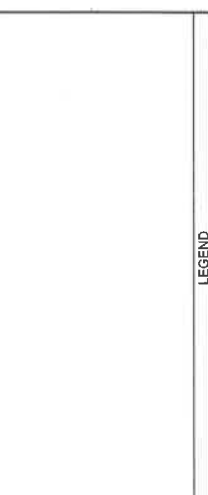


**GENERAL NOTES**

- 1. 2x10.00 m x 10.00 m LOCAL COORDINATES CENTER CORRESPONDS TO E=527,856.184 m N=171,472,800 m IN CASHEM +0.000 m. CORRESPONDS TO THE LEVEL +138.200m OF PLANT DATUM (MS.S=+62.800).
- 2. STEAM TURBINE BUILDING FINISHED FLOOR IS AT ELEVATION +0.000.
- 3. ALL COORDINATES AND ELEVATIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
- 4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

**NOTES**

1. FOR CONCRETE GENERAL NOTES SEE 30003-10-G-0001-DM-001.
2. BELOW GRADE CONCRETE SHALL BE COATED BY THREE LAYERS OF BITUMEN.
3. SOIL STABILIZATION AS PER APPROVED GEOTECHNICAL REPORT.



**REFERENCE DOCUMENTS**

OWNER:

DESIGNER:

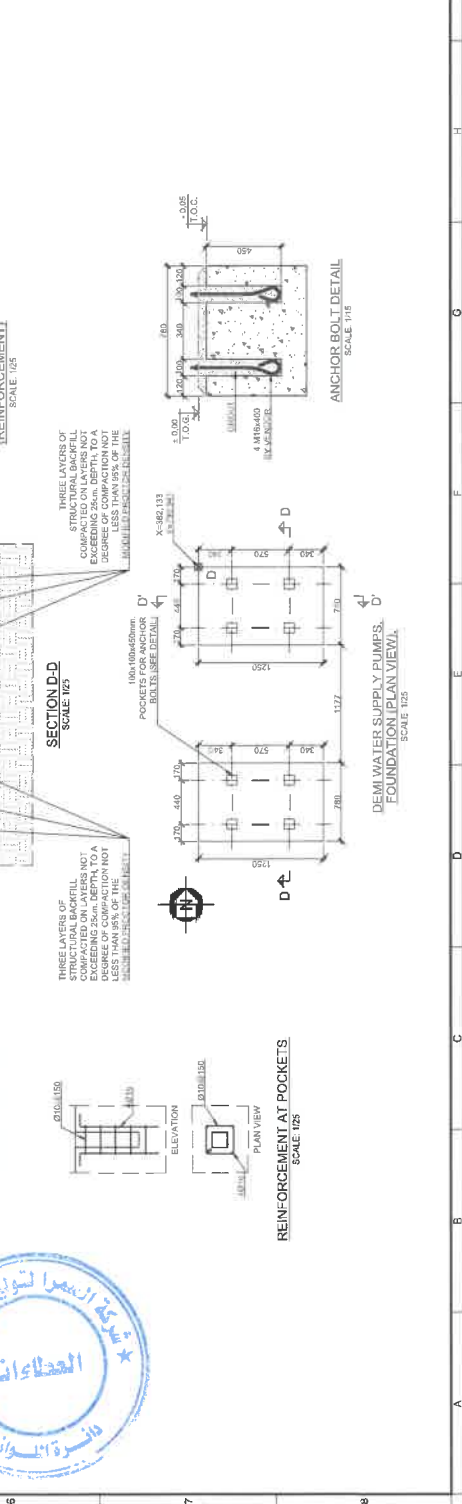
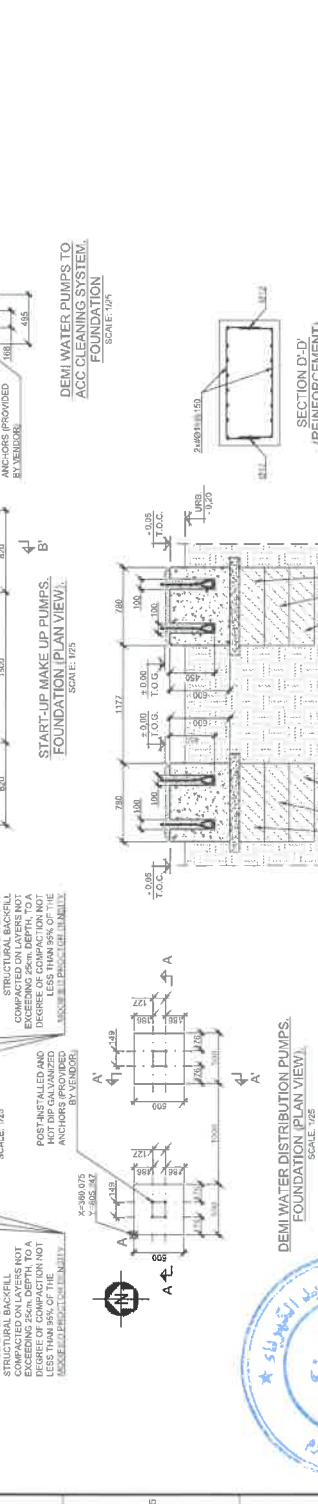
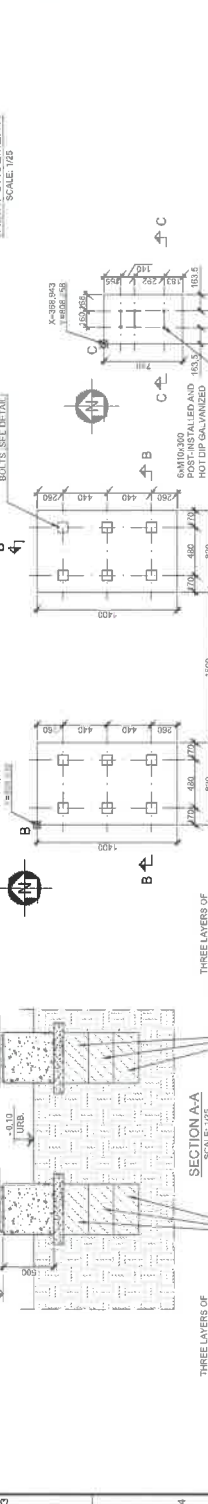
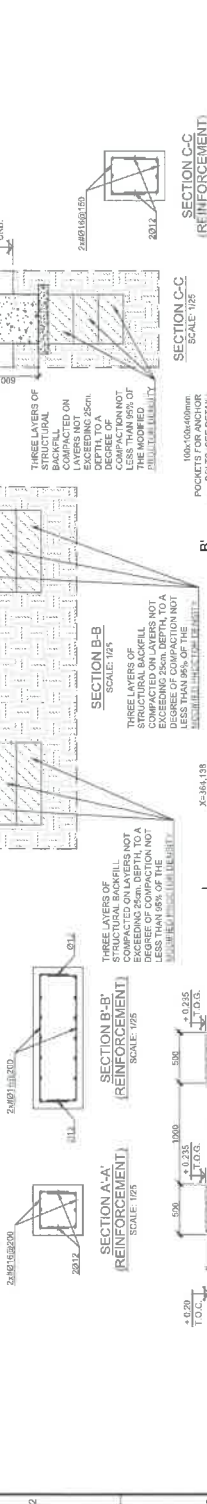
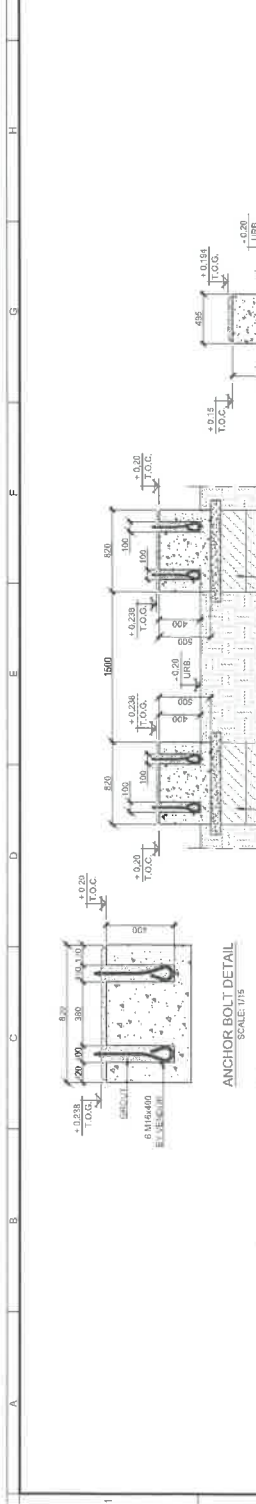
PROJECT: **Samra Phase IV Add-On Combined Cycle Project**

PROJECT NO: **K0003-10-GHC-CDF-DM-001**

DATE: 17/02/2017

SCALE: A1 VAR. SHEET: 3

PROJECT: DEMI WATER PUMPS FOUNDATION DRAWINGS



**KEY PLAN**

**GENERAL NOTES**

- X-0.00 m (+0.00 m) LOCAL COORDINATES CENTER CORRESPONDS TO E=257,465.100 m N=17,472,200 m IN CASING.
- RELATIVE LEVEL +0.000 m CORRESPONDS TO THE LEVEL +132.200m OF PLANT DATUM (MLSL=+132.60).
- ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
- ALL COORDINATES AND ELEVATIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS NOTED OTHERWISE.

**NOTES**

- FOR CONCRETE GENERAL NOTES SEE 0003 10-10\_000-DM-001.
- REINFORCEMENT SHALL BE CAST IN PLACE AND BE COVERED BY THREE LAYERS OF RETURN BELOW GRADE CONCRETE SHALL BE COATED BY THREE LAYERS OF RETURN.
- SOIL STABILIZATION AS PER APPROVED GEOTECHNICAL REPORT.

**LEGEND**

T.O.C. TOP OF CONCRETE  
 U.R.S. URBANIZATION LEVEL  
 T.O.S. TOP OF SIGHTING

SCALE 1:5  
 SCALE 1:15

**REFERENCE DOCUMENTS**

**GENERAL NOTES**

- X-0.00 m (+0.00 m) LOCAL COORDINATES CENTER CORRESPONDS TO E=257,465.100 m N=17,472,200 m IN CASING.
- RELATIVE LEVEL +0.000 m CORRESPONDS TO THE LEVEL +132.200m OF PLANT DATUM (MLSL=+132.60).
- ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
- ALL COORDINATES AND ELEVATIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS NOTED OTHERWISE.

**NOTES**

- FOR CONCRETE GENERAL NOTES SEE 0003 10-10\_000-DM-001.
- REINFORCEMENT SHALL BE CAST IN PLACE AND BE COVERED BY THREE LAYERS OF RETURN BELOW GRADE CONCRETE SHALL BE COATED BY THREE LAYERS OF RETURN.
- SOIL STABILIZATION AS PER APPROVED GEOTECHNICAL REPORT.

**LEGEND**

T.O.C. TOP OF CONCRETE  
 U.R.S. URBANIZATION LEVEL  
 T.O.S. TOP OF SIGHTING

SCALE 1:5  
 SCALE 1:15

**REFERENCE DOCUMENTS**

**POTABLE WATER PRESSURE GROUP FOUNDATION (PLAN VIEW)**  
SCALE 1/15

**SECTION E-E (REINFORCEMENT)**  
SCALE 1/15

**M20 ANCHOR BOLT (TYPICAL DETAIL)**  
SCALE 1/15

**CHEMICAL BOLT (TYPICAL DETAIL)**  
SCALE 1/15