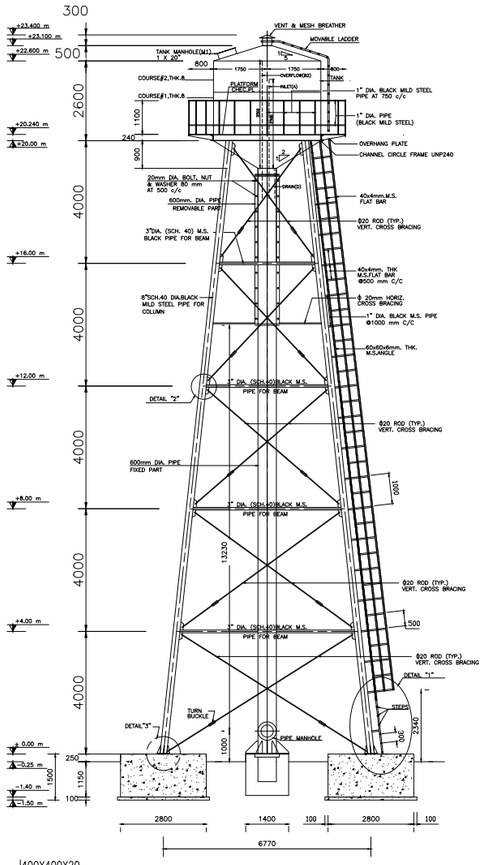
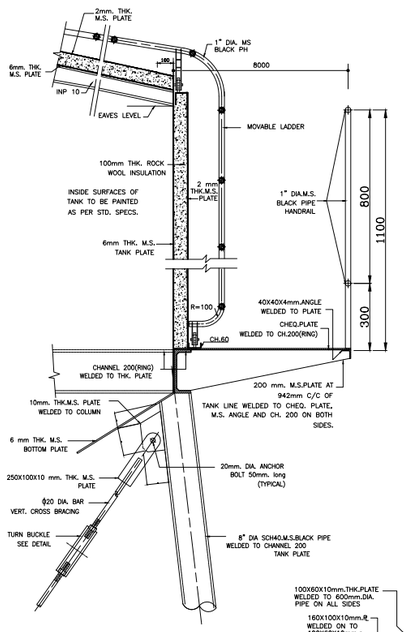
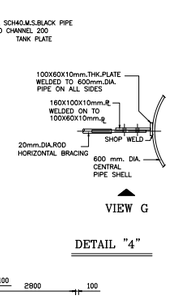


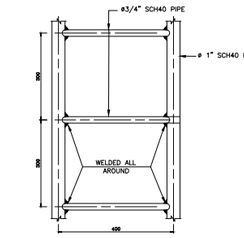
ELEVATED TANK OVERALL VIEW SC.1:100



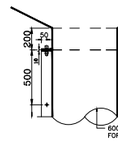
SECTION E–E



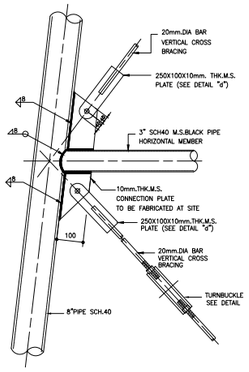
DETAIL "4"



ELEVATION OF MOVABLE LADDER



SECTION F–F



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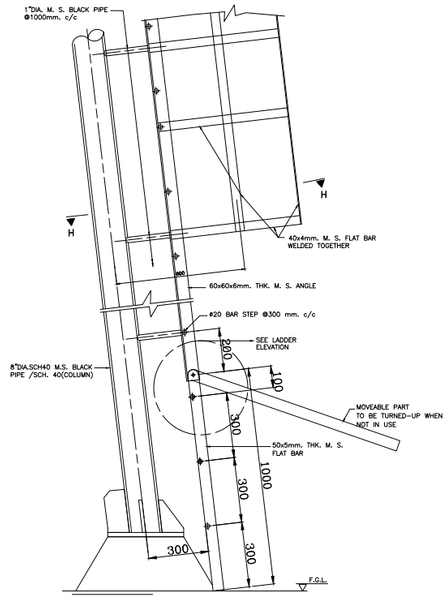
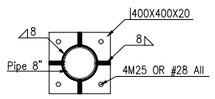
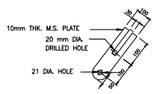


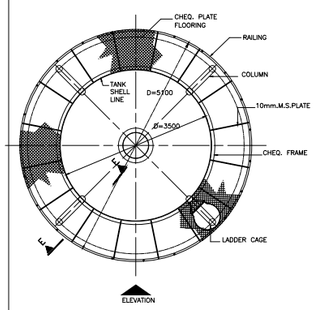
DETAIL "1"



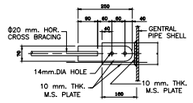
BASE PLATE
SC.1:20 N=4



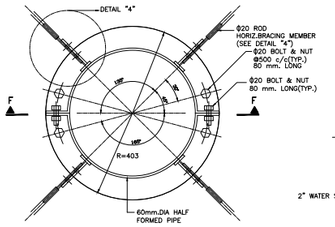
DETAIL "d"



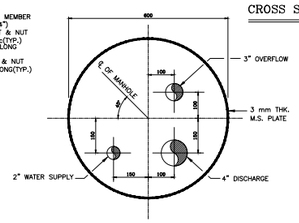
PLAN AT PLATFORM LEVEL



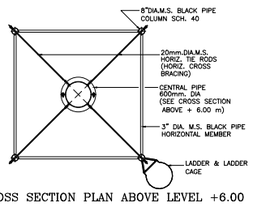
VIEW G



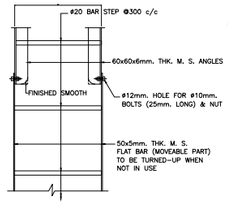
CROSS SECTION ABOVE + 14.00 m



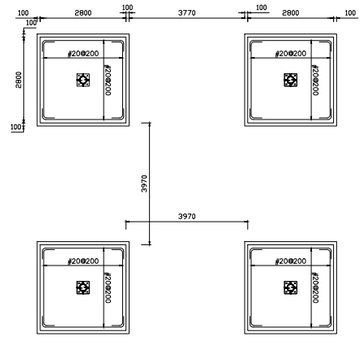
PLAN OF CENTER PIPE
(BELOW ELEVATION + 14 M.)



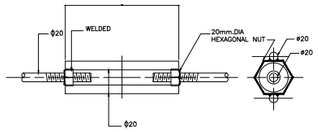
CROSS SECTION PLAN ABOVE LEVEL +6.00



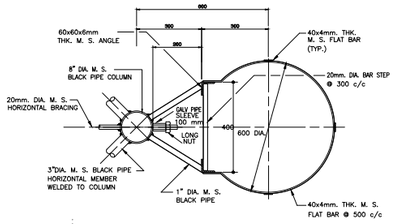
LADDER ELEVATION



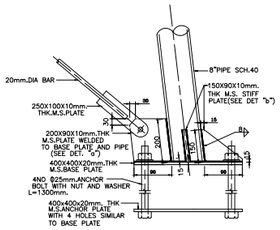
Plan Foundation
SC.1:100



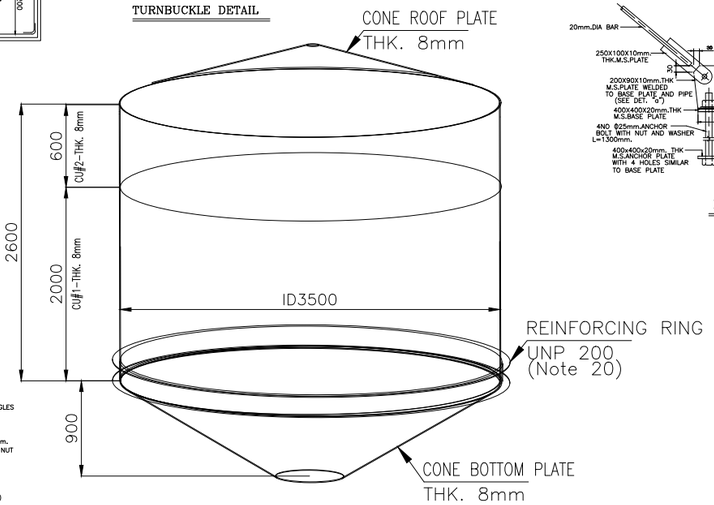
TURNBUCKLE DETAIL



SECTION H–H



DETAIL "3"



3D MODEL TANK

GENERAL DATA		
ITEM No.	TK-2209	
QUANTITY	1	
TYPE OF TANK	CYLINDRICAL,SELF SUPP. CONE ROOF	
SERVICE	WATER	
DESIGN CODE	AWWA D100/API 650, ED.3, 2021	
ROOF SLOPE	1/5	
MATERIALS		
PLATES		
SHELL	SA 283 C+ Lining food grade(Note 13)	
CONE ROOF	SA 283 C+ Lining food grade(Note 13)	
BOTTOM & ANNULAR PLATES	SA 283 C+ Lining food grade(Note 13)	
SUPPORTS	SA 36 / RST-37 Gr.2	
INTERNALS	SA 283 C+ Lining food grade(Note 13)	
PIPES		
NOZZLES	SA 106 GR.B	
FORGINGS & STAMPINGS		
FLANGES & BLIND	SA 105 – Galvanized	
ELBOWS & TEE	SA 234 GR.WPB	
BOLTING		
BOLT	SA 193 Gr.B7	
NUT	SA 194 Gr.2H	
GASKETS		
GASKETS	NON-ASBESTOS , FLAT & GRAPHITE FILLED	
SHAPES		
STIFFENERS	SA 283 C	
HANDRAIL & STAIRS		
PIPE	API 5L Gr. B / A53 Gr.B	
PLATE	SA 283 Gr.C / RST-37 Gr.2	
PROFILE	SA 283 Gr.C / RST-37 Gr.2	
DESIGN CONDITIONS		
INTERNAL DESIGN PRESSURE	ATM + FULL OF WATER	mm H_2O
EXTERNAL DESIGN PRESSURE	ATM.	mm H_2O
OPERATING PRESSURE	ATM.	mm H_2O
HYDROSTATIC TEST PRESSURE	ATM + FULL OF WATER	mm H_2O
DESIGN TEMPERATURE MIN/MAX	85	deg. c.
OPERATING TEMPERATURE MIN/MAX	5/50	deg. c.
INSPECTION	RT / LIQUID PENETRANT	
JOINT EFFICIENCY	85	%
RADIOGRAPHY	SPOT	
POSTWELD HEAT TREATMENT	☐YES ■NO	
IMPACT TEST	NO	
CORROSION ALLOWANCE	■SHELL 1.6 ■ROOF 1.6	mm
	■BOTTOM 1.6 ■STRUCTURE 1.6	mm
NOMINAL CAPACITY	25	m^3
GEOMETRIC CAPACITY	20	m^3
WIND VELOCITY	232	Km/hr
EARTHQUAKE	ASCE 7–10	–
SITE CLASS	D	
IMPORTANCE FACTOR	1.25	
PUMP IN RATE	HOLD	m^3/hr
PUMP OUT RATE	HOLD	m^3/hr
DENSITY OF LIQUID	1000 AT 15°C	Kg/m
ACCESSORIES		
ROOF HANDRAIL	■YES ☐NO	PIPE SUPPORT CLIP ■YES ☐NO
LADDER	■YES ☐NO	BRACING ■YES ☐NO
CIRC. PLATFORM	■YES ☐NO	NAME PLATE ■YES ☐NO
TOP ANGLE	■YES ☐NO	EARTHING ■YES ☐NO
INSTRUMENTATION	■YES ☐NO	INSULATION CLIP ■YES ☐NO
INSULATION AND PAINTING		
INSULATION TYPE/THK.	■YES ☐NO	100 mm ROCKWOOL
PAINTING (EXTERIOR)	■YES ☐NO	
PAINTING (INTERIOR)	■YES ☐NO	
FIRE PROOFING FOR SUPPORT	☐YES ■NO	
PAINTING PROCEDURE		
SHELL OTSIDE / INSIDE	■YES ☐NO	
BOTTOM OTSIDE / INSIDE	■YES ☐NO	
FIXED ROOF OTSIDE / INSIDE	■YES ☐NO	
JACKET OTSIDE / INSIDE	☐YES ■NO	
STRUCTURAL	■YES ☐NO	
WEIGHT OF MAJOR PART		
SHELL PLATE	kg	1,795
ROOF PLATE	kg	118
BOTTOM PLATE	kg	240
STRUCTURAL	kg	6,000
MILL TEST CERTIFICATE	■YES ☐NO	
REFERENCE DOCUMENTS/DRAWINGS		

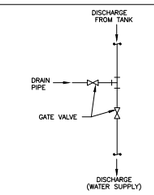
No.	Size	Qty	Projection	Flange	Description
A	2"	1	150mm	WN–150#	Water Inlet
B1	2"	1	200mm	WN–150#	Water Outlet
B2	2"	1	150mm	WN–150#	Over Flow
M1	24"	1	150mm	WN–150#	Manhole
L	2"	1	150mm	WN–150#	Level Transmitter
D	2"	1	150mm	WN–150#	Drain
V	2 "	1	150mm	WN–150#	Vent

NOZZLE DATA

NOTES

1–ALL DIMENSIONS ARE IN MILLIM. UNLESS OTHERWISE STATED.
2–ALL DIMENSION AND QUANTITIES TO BE CHECKED BY CONTRACTOR PRIOR TO FABRICATION.
3–NOZZLES PROJECTIONS ARE WITH REF. TO SHELL C.L.OR ROOF BASE.
4–ALL EXPOSED STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH SPECIFICATION FOR PAINTING.
5–UNLESS INDICATED,ALL FLANGES HOLES SHALL BE STAGGERED TO MAIN AXES OF TANK.
6–FOR ADD. DETAIL OF PLATFORM SEE IPS–D–ME–200.
7–FOR INSULATION OF PIPES REFER TO IPS–C–TP–701.
8–NOZZLES ELEV. ARE WITH REF. TO TOP OF CONCRETE.
9–WELDING SPEC. TO BE IN ACC. WITH ASME SEC.IX.
10–WELD SYMBOLS TO BE IN ACC. WITH AWS D1.1.
11–NAME PLATE SHALL BE FROM S.S.304.
12–GRATING AND EARTHING LUG SHALL BE HOT DIP GALV. CARBON STEEL.
13–SHALL BE PROPER LINING SHALL BE CONSIDER AS PER ATTACHED SPECIFICATION.
14–ORIENTATION OF NOZZLES, STAIRWAY AND PLAT. WILL BE FINALIZED LATER.
15–ALL MACHINED SHARP CORNERS SHALL BE CHAMFERED WITH 0.5 X 45 deg.
16–FACES OF NOZZLE FLANGES SHALL HAVE SMOOTH FINISH WITH ARM 125 TO 250.
17–FOR GENERAL TOLERANCES SEE RELATED DIN OR ISO STANDARD.
18–NOZZLE FLANGE MUST BE IN ACC.WITH(ANSIB16–5)NOZZLE NECK FROM PIPE MUST BE IN ACC.WITH(ANS1 B 36–10),THREAD BOLTS MUST BE IN ACCORDANCE WITH (ANSI B 1–1 2A),THREAD NUTS MUST BE IN ACC. WITH (ANSI B 1–1 2B).
19–ALL WELD SIZE IS 8.
20–COULD BE MADE OF ROOLED PLATE & RING.

LEGEND



DETAIL OF DRAIN PIPE

LIST DRAWING	DRG. No.
Body Detail Drawing For Potable Water Tank (TK–2209)	●●●●●●
Nozzle And Manhole Drawing For Potable Water Tank (TK–2209)	●●●●●●
Ladder & Platform Drawing For Potable Water Tank (TK–2209)	●●●●●●
Name Plate Drawing For Potable Water Tank (TK–2209)	●●●●●●
Insulation Support Drawing For Potable Water Tank (TK–2209)	●●●●●●
Structure Support Drawing For Potable Water Tank (TK–2209)	●●●●●●

KEY PLAN

REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.
V00	Nov.2024	IFA	iDrill M.E.	M.PAKHARIAN	M.Sadeghian	●●.●●

REV.	DESCRIPTION	CHECKED BY	CHECKED DATE	REV. APPR. BY	REV. APPR. DATE
●●●	●●●●●●●●●●	●●.●●	●●●.●●●●	●●.●●	●●●.●●●●

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS & GAS–CONDENSATE PIPELINES

PROJECT NO.: 971020

EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY (PEDCO)

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BINAK OILFIELD DEVELOPMENT
SURFACE FACILITIES
GAS CPMPRESSOR STATION

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION BY: DATE:

DRAWING TITLE: GENERAL ARRANGEMENT FOR ELEVATED POTABLE WATER TANK (TK–2209)

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
1:20	A3	BK–GCS–IDR–120–ME–DW–0001	1 of 1	V00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION

MANUFACTURER:iDrill Middle East (iDrill M.E)