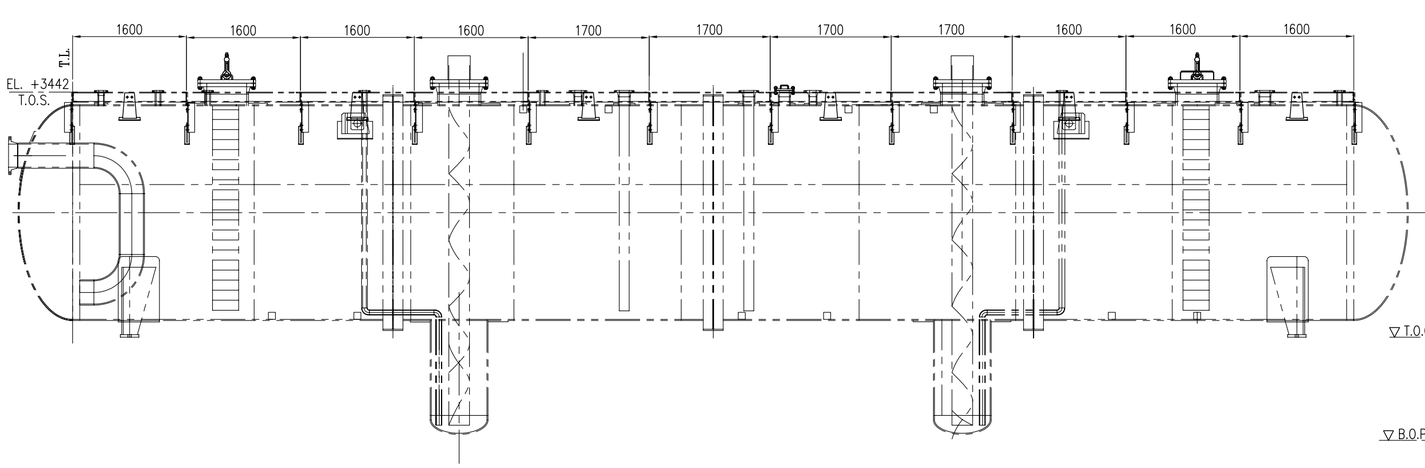
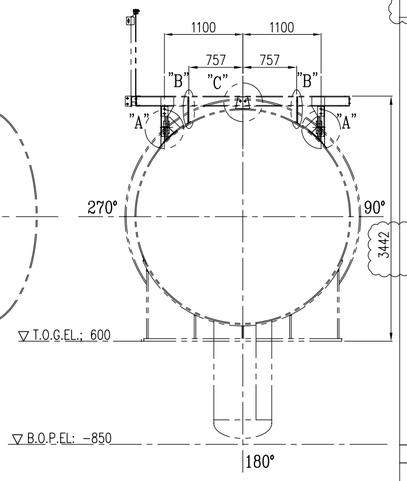
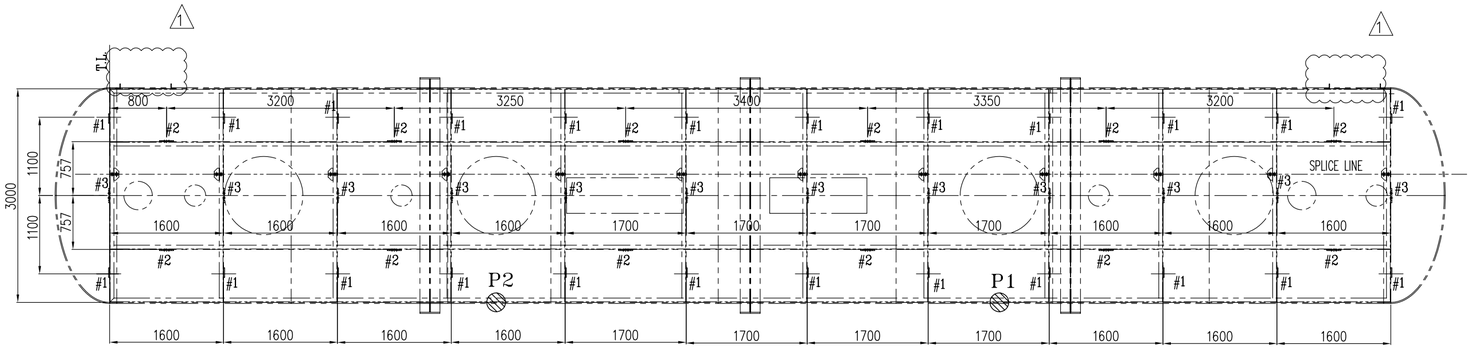
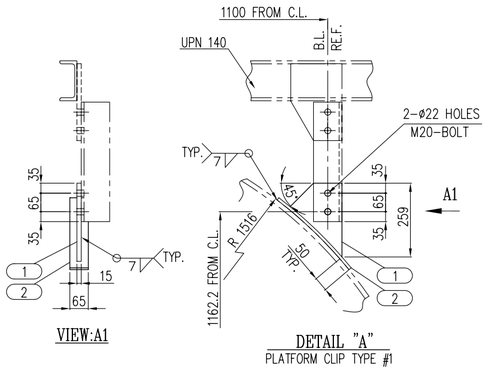
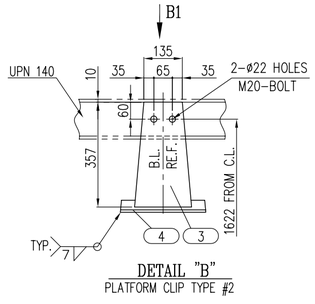
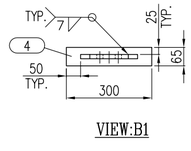


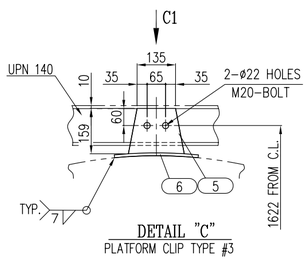


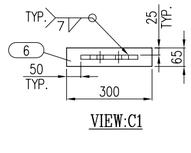












BILL OF MATERIALS

NO.	PARTICULARS	RQD MAIN	RQD SPA.	WEIGHT (Kg) UNIT	WEIGHT (Kg) TOTAL	MATERIAL	REMARK
1	PL 15 X 182.3 X 259	24		3.2	76.8	ST 37-2 /1	
2	PL 10 X 65 X 355	24		1.8	43.2	SA 516-70N	
3	PL 15 X 200 X 357	12		7	84	ST 37-2 /1	
4	PL 10 X 65 X 300	12		1.5	18	SA 516-70N	
5	PL 15 X 159 X 200	12		3	36	ST 37-2 /1	
6	PL 10 X 65 X 300	12		1.5	18	SA 516-70N	
7	DELETED						

/1

WEIGHT PER 1 SET : 277 Kg
NUMBER OF SETS : 1
TOTAL WEIGHT : 277 Kg

AS BUILT

NOTES

1. UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN MILLIMETERS.
2. UNLESS OTHERWISE SPECIFIED ALL FILLET WELDS SHALL BE 0.7 OF THICKENERS PART OF THE WELDED JOINT.
3. ABBREVIATIONS :
   T.O.P = TOP OF PLATFORM
   T.O.S = TOP OF STEEL STRUCTURE
4. T.O.P ELEVATION IS CONSIDERED AS T.O.S + 30 MM FOR TOP PLTF AND T.O.S. + 40 MM FOR SIDE PLTF.
5. ALL BOLTS & NUTS SHALL BE HOT DIP GALVANIZED.

Rev.	Date	Status	Prep.	Chk.	App.	R.S.
01	04-Dec-2019	ISSUED FOR APPROVAL	F.Alikhani	A.Chorbani	M.Jafari	
00	07-May-2019	ISSUED FOR APPROVAL	F.Alikhani	A.Chorbani	M.Jafari	

MANGEMENT CONTRACTOR: Petropars Ltd.

CONTRACTOR: RZHARB.IN.CO

CLIENT: PEDEC

PROJECT TITLE:
SOUTH & NORTH GAS OIL SEPARATION PLANT(N-GOSP & S-GOSP)
AND TRANSFER LINE TO CTEP PROJECT (EPCC)

FACILITIES: SURFACE PRODUCTION FACILITIES

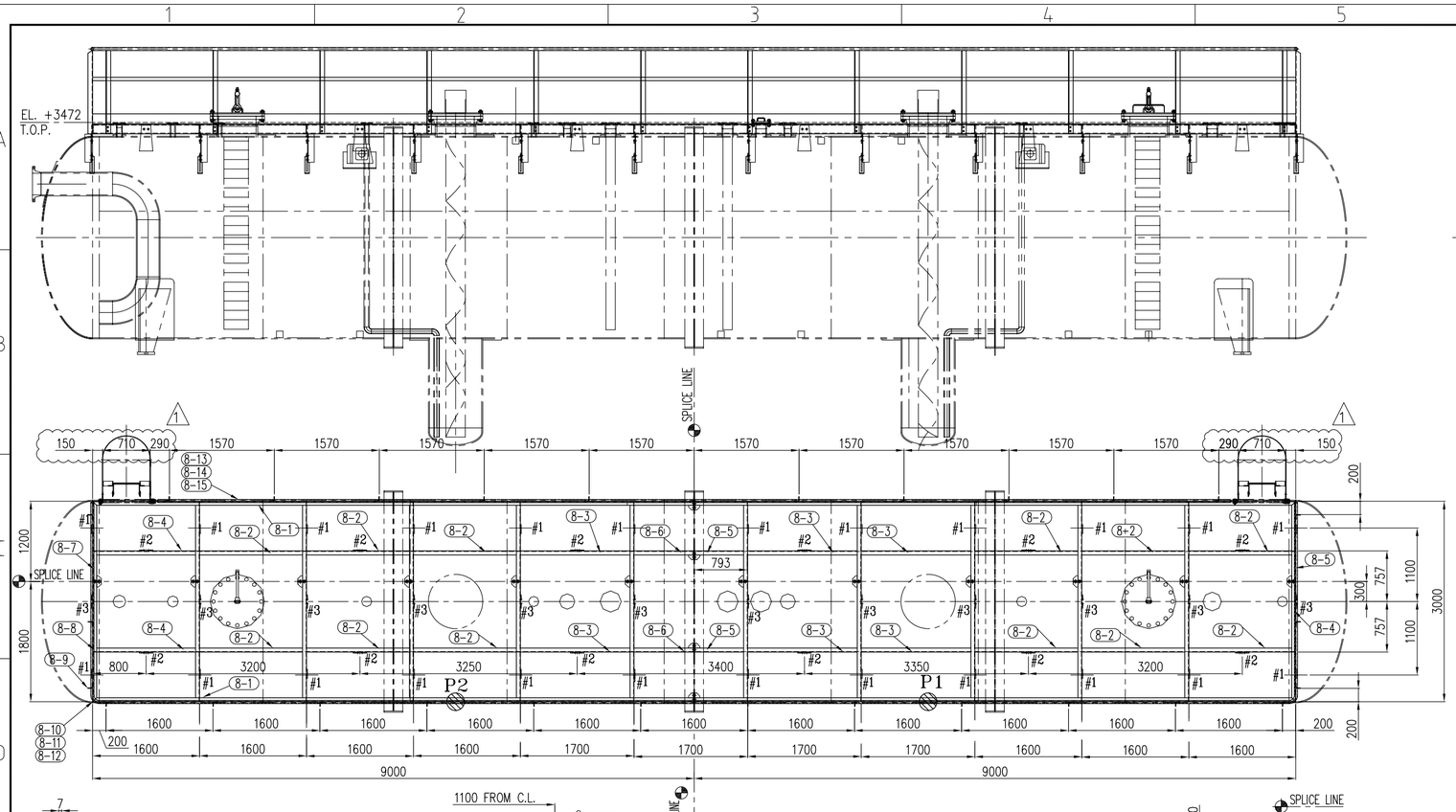
DRAWING TITLE:
LADDER & PLATFORM (CLIPS) FOR (V-70037100) CLOSED DRAIN DRUM

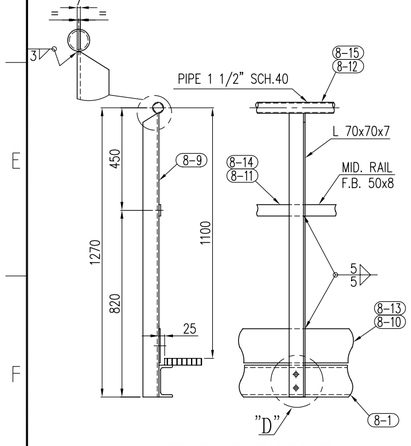
SCALE	SIZE	CLASS
1/25	A2	A

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

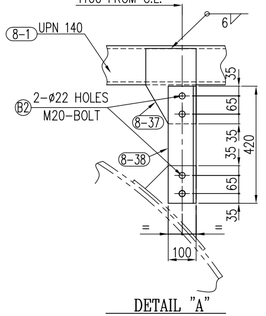
DOCUMENT NUMBER : SA01-PV-SGOSP-ME-DWVD-1407-01 VD-VO90-0114-007

PROJECT/SUB PRO.	SCOPE	DISCIPLINE CODE	DOCUMENT CODE	SEQUENCE No.	REVISION	SHEET
SA01-PV	SGOSP	ME	DWGA	1407	01	1/3

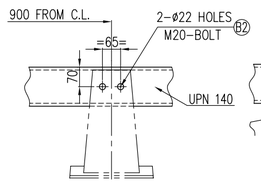




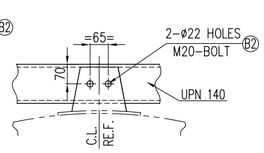
DETAIL OF HANDRAIL



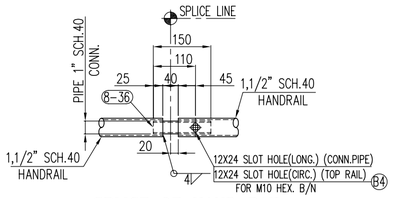
DETAIL "A"
PLATFORM CLIP TYPE #1



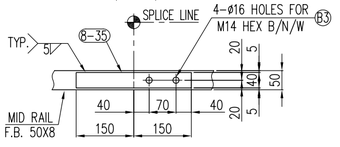
DETAIL "B"
PLATFORM CLIP TYPE #2



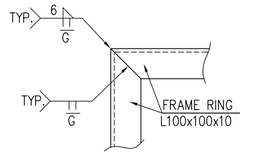
DETAIL "C"
PLATFORM CLIP TYPE #3



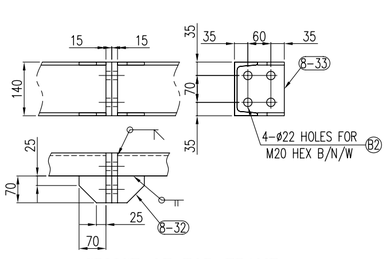
SPLICE OF HAND RAIL
(TYP.)



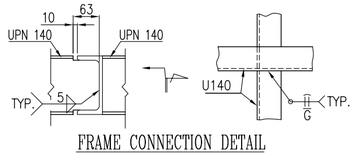
SPLICE OF MID RAIL
(TYP.)



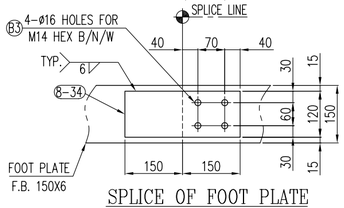
FRAME RING CORNER DETAIL



SPLICE OF TOP FRAME
(TYP.)

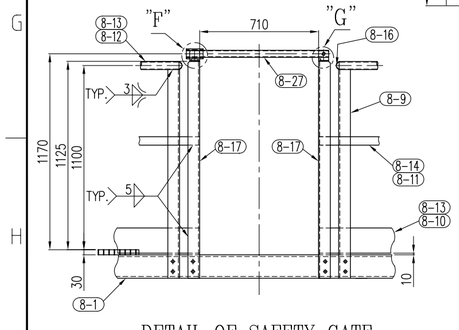


FRAME CONNECTION DETAIL

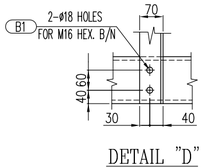


SPLICE OF FOOT PLATE
(TYP.)

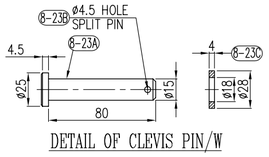
AS BUILT



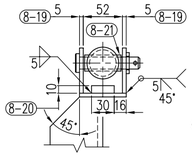
DETAIL OF SAFETY GATE



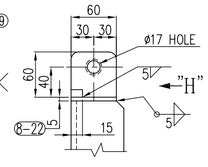
DETAIL "D"



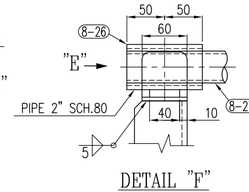
DETAIL OF CLEVIS PIN/W



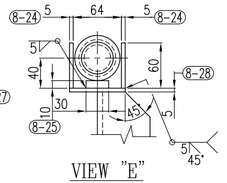
VIEW "H"



DETAIL "G"



DETAIL "F"



VIEW "E"

TYP. HANDRAIL CORNER DETAIL

BILL OF MATERIALS

NO.	PARTICULARS	RQD MAIN	RQD SPA.	WEIGHT (Kg) UNIT	WEIGHT (Kg) TOTAL	MATERIAL	REMARK
8-1	UPN 140 X L=18000	2		309	618	ST 37-2	
8-2	UPN 140 X L=1593	12		27.8	55.6	ST 37-2	
8-3	UPN 140 X L=1693	8		29	232	ST 37-2	
8-4	UPN 140 X L=1586	2		27.3	24.6	ST 37-2	
8-5	UPN 140 X L=793	2		13.6	27.2	ST 37-2	
8-6	UPN 140 X L=900	2		15.5	31	ST 37-2	
8-7	UPN 140 X L=1200	2		20.6	41.2	ST 37-2	
8-8	UPN 140 X L=1800	2		30.9	61.8	ST 37-2	
8-9	L 70 X 70 X 7 X L=1246	29		9	261	ST 37-2	
8-10	F.B. 150 X 6 X L=11800	2		83	166	ST 37-2	
8-11	F.B. 50 X 8 X L=11800	2		38	76	ST 37-2	
8-12	PIPE 1,1/2" ,SCH.40 X L=11964	2		47.5	95	SA 53	1
8-13	F.B. 150 X 6 X L=8140	2		57.5	115	ST 37-2	
8-14	F.B. 50 X 8 X L=8140	2		25.5	51	ST 37-2	
8-15	PIPE 1,1/2" ,SCH.40 X L=8011	2		32	64	SA 53	
8-16	CAP 1,1/2" ,SCH.40	4		0.05	0.2	SA 420-WPL6	
8-17	L 70 X 70 X 7 X L= 1295	4		9.5	38	ST 37-2	
8-18	DELETED						
8-19	PL. 5 X 60 X 60	4		0.1	0.4	ST 37-2	
8-20	PL. 10 X 15 X 30	2		0.03	0.06	ST 37-2	
8-21	PIPE 1/2" ,SCH.STD X L=50	2		0.06	0.12	SA 53	1
8-22	PL. 5 X 60 X 62	2		0.1	0.2	ST 37-2	
8-23A	CLEVIS PINø15 ,L=80	2		0.01	0.02	ST 37-2	ISO 2341-B-16X80X4-ST
8-23B	SPLIT PIN ø4 ,L=25	2		0.1	0.2	FA 436	1 DIN 94-4X25-ST
8-23C	WASHER I.D. 18 X O.D.28 X THK.=4	4		0.03	0.12	ST 37-2	ISO 8738-18-ST
8-24	PL. 5 X 60 X 60	4		0.06	0.4	ST 37-2	
8-25	PL. 10 X 30 X 40	2		0.1	0.2	ST 37-2	
8-26	PIPE 2" ,SCH.80 X L=100	2		7.3	14.6	PLASTIC	
8-27	PIPE 1,1/4" ,SCH.40 X L=850	2		28.3	56.6	SA 53	
8-28	PL. 5 X 60 X 74	2		0.2	0.4	ST 37-2	1
8-29	DELETED						
8-30	DELETED						1
8-31	DELETED						
8-32	PL 10 X 70 X 70	32		0.4	12.8	ST 37-2	
8-33	PL 15 X 130 X 140	32		2	64	ST 37-2	
8-34	PL 8 X 120 X 300	4		2.5	10	ST 37-2	
8-35	PL 10 X 40 X 300	4		1	4	ST 37-2	
8-36	CONN. PIPE 1", SCH.40 L=150	4		0.1	0.4	SA 53B	1
8-37	PL 10 X 180 X 269.5	24		3.4	81.6	ST 37-2	1
8-38	L 100 X 100 X 10 X L=420	24		6.26	150.4	ST 37-2	
B1	HEX. BOLT & NUT/W M16, L=40	60		--	--	SA193 GR.B7M/SA194-GR.2HM	
B2	HEX B/N M20 x 50L	176		0.25	44	SA193 GR.B7M/SA194-GR.2HM	
B3	HEX B/N M14 x 40L	24		0.1	2.4	SA193 GR.B7M/SA194-GR.2HM	
B4	HEX B/N M10 x 70L	4		0.1	0.4	SA193 GR.B7M/SA194-GR.2HM	
					TOTAL WEIGHT : 2424 Kg		

1. UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN MILLIMETERS.
2. UNLESS OTHERWISE SPECIFIED ALL FILLET WELDS SHALL BE 0.7 OF THICKENERS PART OF THE WELDED JOINT.
3. ABBREVIATIONS :
   T.O.P = TOP OF PLATFORM
   T.O.S = TOP OF STEEL STRUCTURE
4. T.O.P ELEVATION IS CONSIDERED AS T.O.S + 30 MM FOR TOP PLTF AND T.O.S. + 40 MM FOR SIDE PLTF.
5. ALL BOLTS & NUTS SHALL BE HOT DIP GALVANIZED.

Rev.	Date	Status	Prep.	Chk.	App.	R.S.
01	04-Dec-2019	ISSUED FOR APPROVAL	F.Alikhani	A.Chorbani	M.Jafari	
00	07-May-2019	ISSUED FOR APPROVAL	F.Alikhani	A.Chorbani	M.Jafari	

MANGEMENT CONTRACTOR: Petropars Ltd.

CONTRACTOR: AZARAB.IN.CO

CLIENT: PEDEC

PROJECT TITLE:
SOUTH & NORTH GAS OIL SEPARATION PLANT(N-GOSP & S-GOSP)
AND TRANSFER LINE TO CTEP PROJECT (EPCC)

FACILITIES: SURFACE PRODUCTION FACILITIES

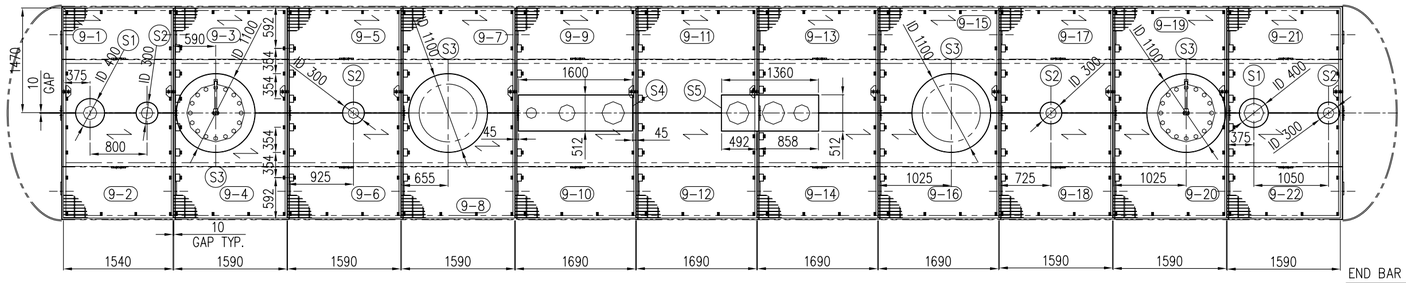
DRAWING TITLE:
LADDER & PLATFORM (PLATFORM) FOR (V-70037100) CLOSED DRAIN DRUM

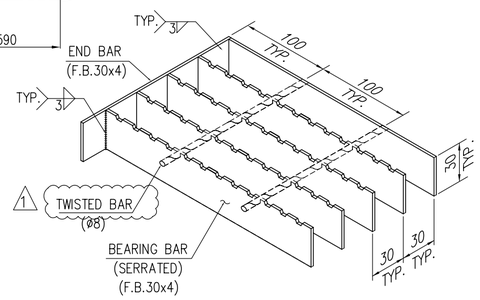
SCALE	SIZE	CLASS
1/25	A2	A

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

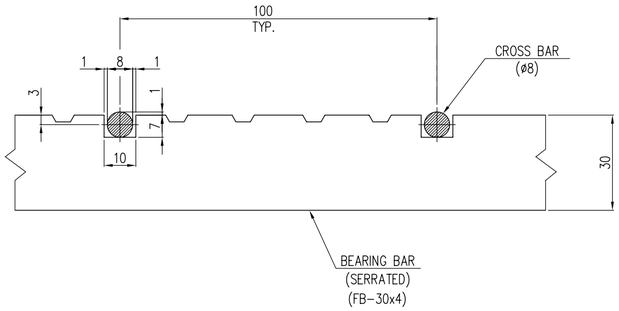
DOCUMENT NUMBER : SA01-PV-SGOSP-ME-DWVD-1407-01 VD-VO90-0114-007

PROJECT/SUB PRO.	SCOPE	DISCIPLINE CODE	DOCUMENT CODE	SEQUENCE No.	REVISION	SHEET
SA01-PV	SGOSP	ME	DWGA	1407	01	2/3

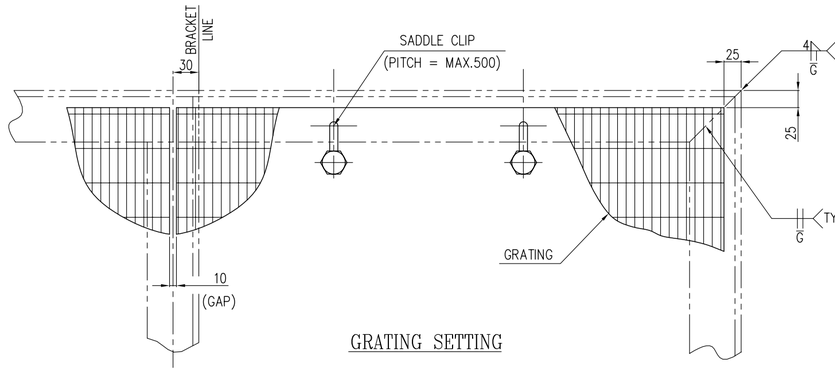




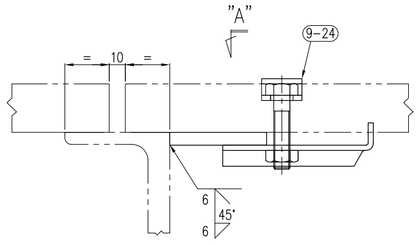
GRATING



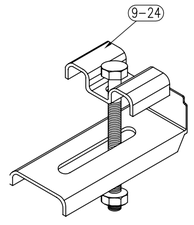
TYPICAL GRATING DETAIL



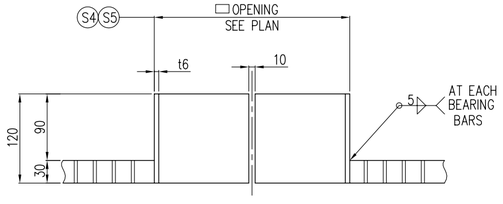
GRATING SETTING



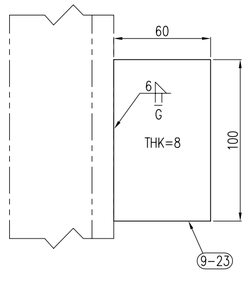
DETAIL "A"



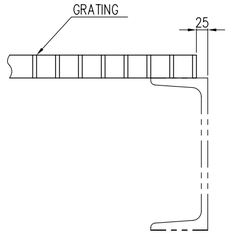
NORMAL CLIP



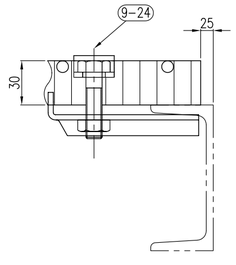
GRATING OPENING DETAIL



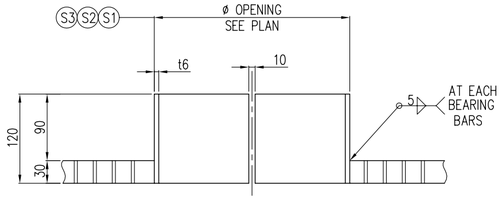
VIEW "B"



PERIMETER FRAMING



SADDLE CLIP DETAIL



GRATING OPENING DETAIL

BILL OF MATERIALS

NO.	PARTICULARS	RQD MAIN	RQD SPA.	WEIGHT (Kg) UNIT	WEIGHT (Kg) TOTAL	MATERIAL	REMARK
9-1	GRATING (H30x4) x 1470 x 1590	1		20.4	20.4	ST 37-2	1
9-2	GRATING (H30x4) x 1470 x 1590	1		20.4	20.4	ST 37-2	
9-3	GRATING (H30x4) x 1470 x 1590	1		23	23	ST 37-2	
9-4	GRATING (H30x4) x 1470 x 1590	1		23	23	ST 37-2	
9-5	GRATING (H30x4) x 1470 x 1590	1		21.3	21.3	ST 37-2	
9-6	GRATING (H30x4) x 1470 x 1590	1		21.3	21.3	ST 37-2	
9-7	GRATING (H30x4) x 1470 x 1590	1		22.8	22.8	ST 37-2	
9-8	GRATING (H30x4) x 1470 x 1590	1		22.8	22.8	ST 37-2	
9-9	GRATING (H30x4) x 1470 x 1690	1		23	23	ST 37-2	
9-10	GRATING (H30x4) x 1470 x 1690	1		23	23	ST 37-2	
9-11	GRATING (H30x4) x 1470 x 1690	1		21.4	21.4	ST 37-2	
9-12	GRATING (H30x4) x 1470 x 1690	1		21.4	21.4	ST 37-2	
9-13	GRATING (H30x4) x 1470 x 1690	1		21	21	ST 37-2	
9-14	GRATING (H30x4) x 1470 x 1690	1		21	21	ST 37-2	
9-15	GRATING (H30x4) x 1470 x 1690	1		23.5	23.5	ST 37-2	
9-16	GRATING (H30x4) x 1470 x 1690	1		23.5	23.5	ST 37-2	
9-17	GRATING (H30x4) x 1470 x 1590	1		21.3	21.3	ST 37-2	
9-18	GRATING (H30x4) x 1470 x 1590	1		21.3	21.3	ST 37-2	
9-19	GRATING (H30x4) x 1470 x 1590	1		23	23	ST 37-2	
9-20	GRATING (H30x4) x 1470 x 1590	1		23	23	ST 37-2	
9-21	GRATING (H30x4) x 1470 x 1590	1		22	22	ST 37-2	
9-22	GRATING (H30x4) x 1470 x 1590	1		22	22	ST 37-2	
9-23	PL 8 X 60 X 100	58		0.3	17.4	ST 37-2	SUPPORT PLATE
9-24	NORMAL SADDLE CLIP	350		0.03	10.5	ST 37-2	SADDLE CLIP
S1	SLEEVE PL 6 X 120 X 627.5	2		3.5	7	Gr.8.8	
S2	SLEEVE PL 6 X 120 X 470.5	2		2.6	5.2	Gr.8.8	
S3	SLEEVE PL 6 X 120 X 1727	2		10	20	Gr.8.8	
S4	SLEEVE PL 6 X 120 X 2102	2		12	24	Gr.8.8	
S5	SLEEVE PL 6 X 120 X 1862	2		10.5	21	Gr.8.8	

WEIGHT PER 1 SET : 578.4 Kg
NUMBER OF SETS : 1
TOTAL WEIGHT : 578.4 Kg

AS BUILT

1. UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN MILLIMETERS.
2. UNLESS OTHERWISE SPECIFIED ALL FILLET WELDS SHALL BE 0.7 OF THICKENERS PART OF THE WELDED JOINT.
3. ABBREVIATIONS :
   T.O.P = TOP OF PLATFORM
   T.O.S = TOP OF STEEL STRUCTURE
4. T.O.P ELEVATION IS CONSIDERED AS T.O.S + 30 MM FOR TOP PLTF AND T.O.S. + 40 MM FOR SIDE PLTF.
5. ALL BOLTS & NUTS SHALL BE HOT DIP GALVANIZED.

Rev.	Date	Status	Prep.	Chk.	App.	R.S.
01	04-Dec-2019	ISSUED FOR APPROVAL	F.Alikhani	A.Chorbani	M.Jafari	
00	07-May-2019	ISSUED FOR APPROVAL	F.Alikhani	A.Chorbani	M.Jafari	

MANGEMENT CONTRACTOR: Petropars Ltd.

CONTRACTOR: AZHARAB I.N.CO.

CLIENT: PEDEC

PROJECT TITLE:
SOUTH & NORTH GAS OIL SEPARATION PLANT(N-GOSP & S-GOSP)
AND TRANSFER LINE TO CTEP PROJECT (EPCC)

FACILITIES: SURFACE PRODUCTION FACILITIES

DRAWING TITLE:
LADDER & PLATFORM (GRATING)
FOR (V-70037100) CLOSED DRAIN DRUM

SCALE	SIZE	CLASS
1/25	A2	A

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

DOCUMENT NUMBER : SA01-PV-SGOSP-ME-DWVD-1407-01 VD-VO90-0114-007

PROJECT/SUB PRO.	SCOPE	DISCIPLINE CODE	DOCUMENT CODE	SEQUENCE No.	REVISION	SHEET
SA01-PV	SGOSP	ME	DWGA	1407	01	3/3