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FILE NAME: 6907-051-16-46-3005-1-1

NOZZLES AND CONNECTIONS (CS ZONE)

MARK	QTY	NOM DIA.	SCH/ THK.	FLANGES		PROJECTION (NOTE-4)	PAD W X T	SERV ICE
				CLASS	TYPE	FACING		
B	1	100	160	150	WN	RF	SEE DRG.	BOTTOM OUTLET
UC	1	50	XXS	150	WN	RF	610	UTILITY CONNECTION+BF
LT 3-4	2	80	XXS	150	WN	RF	660	LEVEL TRANSMITTER
SP 1-2	2	50	XXS	150	WN	RF	610	STAND PIPE
MH 1-2	2	500	16	150	WN	RF	710	MANHOLE+DAVIT+BF
R1 1-2	2	80	XXS	150	WN	RF	660	REBOILER INLET
RR 1-2	2	200	100	150	WN	RF	660	REBOILER RETURN
MCF	1	80 (HOLD)	XXS (HOLD)	150	WN	RF	660	45X12 PUMP MINIMUM FLOW (HOLD)
PDT 2	1	38.1 I/D	14.28	150	LWN	RF	610	DIFF. PRESSURE TRANSMITTER
LR 1-2	2	80	XXS	150	WN	RF	SEE DRG.	LIQUID FROM REBOILER
SK	1	50	XXS	150	WN	RF	610	HC SKIM OFF
AO	1	400	10	AS PER EIL STD.		200X8	ACCESS OPENING	
SKV 1-2	2	100	40	AS PER EIL STD.		-	SKIRT VENT	
SV	1	152.4 I/D	22.22	150	LWN	RF	754	85X12 SAFETY VALVE

THIS COLUMN IS STRUCTURALLY SUPPORTED / GUIDED. NO LADDER / PLATFORM / PIPE / EQUIPMENT SHALL BE SUPPORTED FROM THIS COLUMN

COLUMN IN AMINE SERVICE

COLUMN TO BE DELIVERED TO BCPL, LAKWA

FOUNDATION LOADING DATA
(OPERATING CONDITION)

T Y P E	MAX. MOMENT AT BASE (M) (Kgm)		MAX. SHEAR FORCE AT BASE (H) (Kg)	
	DBE	MCE	DBE	MCE
SEISMIC	-	-	-	-
WIND	-	-	-	-

GENERAL NOTES

- UNLESS STATED OTHERWISE.
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
 - ALL ANCHOR BOLT HOLES TO STRADDLE N/S CENTER LINE.
 - NORTH DIRECTION WHEREVER SHOWN IS WITH RESPECT TO PLAN VIEW.
 - FOR NOZZLES ON SHELL PROJECTIONS ARE REFERRED TO FROM VESSEL CENTER LINE TO FLANGE CONTACT FACE.
 - FOR NOZZLES ON HEAD PROJECTIONS ARE REFERRED TO FROM VESSEL CENTER LINE TO FLANGE CONTACT FACE.
 - THE INDICATED THICKNESS IS THE MINIMUM ACCEPTABLE AFTER CONSTRUCTION.
 - FLANGE GASKET FACE SHALL HAVE 125 AARH FINISH.
 - DIMENSIONS OF FLANGES SHALL BE AS PER ANSI B16.5 UNLESS OTHERWISE STATED.
 - ID OF WELD NECK FLANGES SHALL MATCH WITH CORRESPONDING ID OF NOZZLE PIPE
 - NOZZLES 50NB AND BELOW SHALL BE STIFFENED WITH 2NOS.40X6THK. FLATS 90° APART.
 - VESSEL IS SUBJECTED TO STEAM OUT CONDITIONS OF 0.5 KG/CM²(G) @90°C.
 - ALL REMOVABLE INTERNALS SHALL BE SIZED SO AS TO PASS THROUGH MANHOLE EASILY.
 - COMPLETE COLUMN INCLUDING SUPPORT IS STRESS RELIEVED. HARDNESS SHALL BE LIMITED TO 200 BHN.HARDNESS MEASUREMNT SHALL BE IN ACCORDANCE WITH 6-12-0002.
 - PERMANENT FIXED LADDER SHALL BE PROVIDED INSIDE THE SKIRT FOR INSPECTION OF BOTTOM DISH END.
 - NOZZLES R11 & R12, RR1 & RR2 SHALL BE LOCATED DIAMETRICALLY OPPOSITE ON COLUMN SHELL.
 - NOZZLES LR1 & LR2, TO BE LOCATED SYMMETRICALLY OPPOSITE ON THE COLUMN BOTTOM DISHED END.
 - POT NOZZLES TO BE LOCATED IN VAPOUR SPACE.
 - VENDOR SHALL CARRYOUT LOCAL LOAD ANALYSIS DUE TO NOZZLE LOADING FOR ALL PROCESS NOZZLES FOR THE ALLOWABLE NOZZLE LOAD AS PER JOB. STD.
 - 6907-112-16-46-ST-0038. CALCULATION FOR SAME SHALL BE SUBMITTED FOR EIL REVIEW IN CASE INDUCED STRESSES IN NOZZLE / SHALL EXCEED ALLOWABLE LIMITS OF CODE. NOZZLE THK./RF PAD DIMENSION SHALL BE INCREASED. IN CASE RF PAD IS NOT SUFFICIENT INSERT PLATE MAY BE PROVIDED AT NO TIME / PRICE IMPLICATION.
 - IF THE COLUMN IS DELIVERED IN TWO PIECES DUE TO TRANSPORTATION DIFFICULTY, THE ONLY SIZE JOINT ALLOWED IS THE SKIRT JOINT AT 1500 mm BELOW B.T.L.
 - SURFACE CLANNING / PRIMER SHALL BE AS PER JOB SPEC. 6907-0642-PT -L07.
 - DAVIT TO BE SUPPLIED LOOSE BY VENDOR. DAVIT SHALL BE WELDED/SUPPORTED FROM STRUCTURE.

SPECIFICATIONS

×	DENOTES APPLICABILITY
×	GENERAL SPEC. FOR PRESSURE VESSELS
×	SUPP. SPEC. FOR CS VESSELS
×	SUPPLEMENTRY SPECIFICATION FOR SS CLAD VESSEL
×	STD. SPEC. FOR BOCS PLATES
×	STD. SPEC. FOR STRUCTURAL QUALITY PLATES
×	STANDARD SPECIFICATION FOR CLAD PLATE
×	JOB SPEC. FOR SHOP & FIELD PAINTING

STANDARDS

×	VESSEL TOLERANCES	7-12--0001
×	SUPPORT FOR HORIZONTAL VESSEL	7-12--0002
×	WOODEN PILLOWS FOR SADDLE SUPPORT	7-12--0003
×	SKIRT BASE DETAILS	7-12--0004
×	SKIRT OPENING DETAILS	7-12--0005
×	ANGLE LEG SUPPORT	7-12--0006
×	PIPE LEG SUPPORT	7-12--0007
×	BRACKET SUPPORT FOR VERTICAL VESSEL	7-12--0008
×	MANHOLE WITH HINGED COVER	7-12--0009
×	MANHOLE WITH DAVIT	7-12--0010
×	LADDER RUNGS FOR MANHOLE/DEMISTER	7-12--0011
×	RETAINING PLATE	7-12--0012
×	NOZZLE REINFORCEMENT AND PROJECTION	7-12--0013
×	PAD NOZZLES FOR VESSELS	7-12--0014
×	STANDARD BOLT HOLE ORIENTATION	7-12--0015
×	ALLOY LINER DETAILS	7-12--0016
×	SIGHT GLASSES FOR PRESSURE VESSELS	7-12--0017
×	INTERNAL FLANGES	7-12--0018
×	VORTEX BREAKERS	7-12--0019
×	INLET DEFLECTOR BAFFLE	7-12--0020
×	SUPPORT RING & BOLTING BAR	7-12--0021
×	SUPPORT RING SIZES FOR PACKED TOWERS	7-12--0022
×	PIPE DAVIT	7-12--0023
×	LIFTING LUG TOP HEAD TYPE	7-12--0024
×	FIRE PROOFING AND INSULATION SUPPORTS	7-12--0025
×	EARTHING LUG	7-12--0026
×	NAME PLATE	7-12--0027
×	MANUFACTURER NAME PLATE	7-12--0028
×	BRACKET FOR NAME PLATE	7-12--0029
×	NAME PLATE FOR SMALL EQUIPMENT	7-12--0030
×	DETAILS OF FORGED NOZZLES	7-12--0031
×	SUPPORTS FOR INTERNAL FEED PIPE	7-12--0032
×	HOT INSULATION SUPPORTS FOR HORIZONTAL VESSEL	7-12--0033
×	PIPE DAVIT SUPPORT FOR COLD INS. VESSELS	7-12--0034
×	TP.DETAILS OF WIRE MESH DEMISTER SUPPORTS (FOR GUIDANCE)	7-12--0036
×	S.R. NOZZLE NECK	7-12--0037
×	ALLOWABLE NOZZLE LOADS	6907-112-16-46-ST-0038

DESIGN DATA

CODE	ASME SEC. VIII DIV.1 (LATEST) + ADDENDA
WORKING PRESSURE	(Kg/Cm ² g) INT 0.60(TOP)/1.2(BOTTOM)
DESIGN PRESSURE	(Kg/Cm ² g) INT 3.5(TOP)/4.2(BOTTOM) EXT-FV
WORKING TEMPERATURE	(°C) 108(TOP)/122(BOTTOM)
DESIGN TEMPERATURE	(°C) 140
MDMT	(°C) 4
CORROSION ALLOWANCE	(mm) 6.0 (ON CS ZONE)
TYPE OF HEADS	TORISPHERICAL
JOINT EFFICIENCY	SHELL 1.0 HEAD 1.0
RADIOGRAPHY	SHELL FULL HEAD SINGLE PIECE
POST WELD HEAT TREATMENT	YES (NOTE-12)
HEAT TREATMENT	HEAD AS PER SPEC.
WIND SPECIFICATION	IS : 875
EARTH-QUAKE SPECIFICATION	SITE SPECTRA
OPERATING MEDIUM	RICH AMINE SP. GRAVITY 0.982
CAPACITY	(M ³) 6.3
PAINTING / CLEANING	AS PER JOB SPEC.(NOTE -19)
INSULATION THICKNESS (mm)	25
FIRE PROOFING	YES
HYDROSTATIC TEST (Kg/Cm ² g)	HORIZONTAL VERTICAL
PRESSURE (NEW & COLD)	5.46
INSPECTION BY	EL

MATERIAL OF CONSTRUCTION
(AS PER ASME/IS OR EQUIVALENT) (CS ZONE)

SHELL	SA 516 GR60
REINFORCEMENT PAD	SA 516 GR.60
HEADS	SA 516 GR.60
SHELL FLANGES	-
NOZZLE FLANGES	SA 105
NOZZLE NECK UPTO 250NB	SA 106 GR.B
NOZZLE NECK ABOVE 250NB	SA 516 GR.60
PIPE FITTINGS	SA 234 GR.WPB
GASKETS EXTERNAL	SPIRAL WOUND GASKET WITH SS 316 METAL WINDING AND GRAFOIL FILLER MATERIAL WITH CS INNER RING AS PER ASME B16.20
GASKETS INTERNAL	COMPRESSED FIBRE ASBESTOR FREE
EXTERNAL STUDS/BOLTS/NUTS	SA 193 GR.B7/SA 194 GR.2H
INTERNAL STUDS/BOLTS/NUTS	SS 304L
SKIRT /SUPPORT	SA 516 GR.60/IS 2062 GR.B
SKIRT /SUPPORT BASE	IS 2062 GR.B
INTERNAL PARTS	SA 516 GR.60/SA 106 GR.B
CLIPS & ATTACHMENTS DIRECTLY WELDED (EXTERNAL)	SA 516 GR.60
CLIPS & ATTACHMENTS WELDED OVER PAD (EXTERNAL)	IS 2062 GR.B
WRAPPER PLATE	-
DEMISTER / GRID/ BOLTING	-
PAD FOR EXTERNAL ATTACHMENTS	SA 516 GR.60
STIFFENERS	SA 516 GR.60

STATUTORY REGULATIONS

INDIAN BOILER REGULATIONS (IBR)
DEPARTMENT OF EXPLOSIVES, NAGPUR (CCOE)

APPROXIMATE WEIGHT (KGS)

ERECTION WEIGHT	11800	OPERATING WEIGHT	22300
HYDROTEST WEIGHT	25500	HYDROTEST WEIGHT	30700
(SHOP)		(FIELD)	
NUMBER OF ITEMS : ONE			



ENGINEERS INDIA LIMITED
KOLKATA

JOB NO.: 6907
CLIENT: BCPL
PLANT: GSU, LAKWA

1	06.05.2010
0	02.02.2010
A	27.05.2009

REVISED AS MARKED
ISSUED FOR PURCHASE
ISSUED FOR BIDS
REVISION

RR/PB	AKG
RR/PB	AKG
RR/PB	AKG
CHK	APPROVED

VESSEL DESIGN DATA
REGENERATOR
ITEM NO. 051-CC-102

वेसेल डिजाइन डेटा
रीजेनेरेटर
श्रीराम नगर 051-सीसी-102

DRAWING NO.
6907-051-16-46-3005
SHEET 1 OF 5

REV.
1

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FILE NAME: 6907-051-16-46-3005-A-2

NOZZLES AND CONNECTIONS (CLAD ZONE)									
MARK	QTY	NOM DIA.	SCH/ THK.	FLANGES			PROJECTION (NOTE-4)	PAD W X T	SERV ICE
				CLASS	TYPE	FACING			
F1	1	150	80 +@	150	WN	RF	SEE DRG.	85X8	FEED
T	1	200	10+ 3 CLAD	150	WN	RF	SEE DRG.	110X8	TOP OUTLET
V	1	80	160 +@	150	WN	RF	SEE DRG.	45X8	VENT+BF
PDT 1	1	80	160 +@	150	WN	RF	660	45X8	DIFF. PRESSURE TRANSMITTER
R	1	80	160 +@	150	WN	RF	660	45X8	REFLUX
MH3	1	500	14+ 3 CLAD	150	WN	RF	710	250X12	MANHOLE+BF+DAVIT

@ 5 mm WELD OVERLAY WITH 3 mm UNDILUTED CHEMISTRY

GENERAL NOTES

UNLESS STATED OTHERWISE

SPECIFICATIONS

BENOTES APPLICABILITY	
GENERAL SPEC. FOR PRESSURE VESSELS	6-12-0001
SUPP. SPEC. FOR CS VESSELS	6-12-0002
STD. SPEC. FOR BOOS PLATES	6-12-0011
STD. SPEC. FOR STRUCTURAL QUALITY PLATES	6-12-0014
JOB SPEC. FOR SHOP & FIELD PAINTING	-
JOB SPEC. FOR KNITTED WIREMESH DEMISTER	-

STANDARDS

VESSEL TOLERANCES	7-12-0001
SUPPORT FOR HORIZONTAL VESSEL	7-12-0002
WOODEN PILLOWS FOR SADDLE SUPPORT	7-12-0003
SKIRT BASE DETAILS	7-12-0004
SKIRT OPENING DETAILS	7-12-0005
ANGLE LEG SUPPORT	7-12-0006
PIPE LEG SUPPORT	7-12-0007
BRACKET SUPPORT FOR VERTICAL VESSEL	7-12-0008
MANHOLE WITH HINGED COVER	7-12-0009
MANHOLE WITH DAVIT	7-12-0010
LADDER RUNGS FOR MANHOLE/DEMISTER	7-12-0011
RETAINING PLATE	7-12-0012
NOZZLE REINFORCEMENT AND PROJECTION	7-12-0013
PAD NOZZLES FOR VESSELS	7-12-0014
STANDARD BOLT HOLE ORIENTATION	7-12-0015
ALLOY LINER DETAILS	7-12-0016
SIGHT GLASSES FOR PRESSURE VESSELS	7-12-0017
INTERNAL FLANGES	7-12-0018
VORTEX BREAKERS	7-12-0019
INLET DEFLECTOR BAFLE	7-12-0020
SUPPORT RING & BOLTING BAR	7-12-0021
SUPPORT RING SIZES FOR PACKED TOWERS	7-12-0022
PIPE DAVIT	7-12-0023
LIFTING LUG TOP HEAD/TYPE	7-12-0024
FIRE PROOFING AND INSULATION SUPPORTS	7-12-0025
EARTHING LUG	7-12-0026
NAME PLATE	7-12-0027
MANUFACTURER/NAME PLATE	7-12-0028
BRACKET FOR NAME PLATE	7-12-0029
NAME PLATE FOR SMALL EQUIPMENT	7-12-0030
DETAILS OF FORGED NOZZLES	7-12-0031
SUPPORTS FOR INTERNAL FEED PIPE	7-12-0032
HOT INSULATION SUPPORTS FOR HORIZONTAL VESSEL	7-12-0033
PIPE/DAVIT SUPPORT FOR COLD INS. VESSELS	7-12-0034
TYPE/DETAILS OF WIRE MESH DEMISTER SUPPORTS (FOR GUIDANCE)	7-12-0036
S/R. NOZZLE NECK	7-12-0037
PIPEING LOAD	-

REFERENCE DRAWINGS

NOZZLE ORIENTATIONS	-
LADDERS / PLATFORM CLEATS	-
PIPE SUPPORT CLEATS	-
TRAY SUPPORT AND BOLTING BARS	-
DEMISTER DATA SHEET	-

HOLD UPS

NOZZLE ORIENTATIONS	SIZE OF NOZZLE
NOZZLE ELEVATIONS	PIPE SUPPORT CLEATS
SUPPORT HEIGHT	LADDER / PLATFORM CLEATS
DETAIL OF INTERNALS	TRAY SUPPORTS / BOLTING BARS
REBOLLER CLIPS	PIPE DAVIT

DESIGN DATA

CODE	
WORKING PRESSURE (Kg/Cm ²)	INT -
DESIGN PRESSURE (Kg/Cm ²)	INT -
WORKING TEMPERATURE (°C)	-
DESIGN TEMPERATURE (°C)	-
MDMT (°C)	-
CORROSION ALLOWANCE (mm)	-
TYPE OF HEADS	-
JOINT EFFICIENCY	SHELL - HEAD -
RADIOGRAPHY	SHELL - HEAD -
POST WELD HEAT TREATMENT	-
HEAT TREATMENT	-
WIND SPECIFICATION	-
EARTH-QUAKE SPECIFICATION	-
OPERATING MEDIUM	PROX AMINE SP. GRAVITY -
CAPACITY (CY M ³)	-
PAINTING / CLEANING	-
INSULATION THICKNESS (mm)	NIL
FIRE PROOFING	☐ YES ☒ NO
HYDROSTATIC TEST (Kg/Cm ²)	HORIZONTAL
PRESSURE (NEW & COLD)	VERTICAL
INSPECTION BY	☒ EIL ☐ CIB ☐ LLOYDS

MATERIAL OF CONSTRUCTION

(AS PER ASME/IS OR EQUIVALENT) (CLAD ZONE)

SHELL	SA 516 GR60+SA 240 TP304L CLAD
REINFORCEMENT PAD	SA 516 GR.60
HEADS(TOP)	SA 516 GR.60+SA 240 TP304L CLAD
SHELL FLANGES	-
NOZZLE FLANGES	SA 105+SS304L WELD OVERLAY @
NOZZLE NECK UPTO 150NB	SA 106 GR.B+SS304L WELD OVERLAY
NOZZLE NECK ABOVE 150NB	SA 516 GR.60+SA 240 TP304L CLAD
PIPE FITTINGS	SA 234 GR.WPB+SS304L WELD OVERLAY @
GASKETS EXTERNAL	SPIRAL WOUND GASKET WITH SS 316 METAL WINDING AND GRAFOIL FILLER MATERIAL WITH
GASKETS INTERNAL	CS INNER RING AS PER ASME B16.20
EXTERNAL STUDS/BOLTS/NUTS	COMPRESSED FIBRE ASESTOR FREE
INTERNAL STUDS/BOLTS/NUTS	SA 193 GR.B7/SA 194 GR.2H
SKIRT / SUPPORT	-
SKIRT / SUPPORT BASE	-
INTERNAL PARTS	SS 304L
CLIPS & ATTACHMENTS DIRECTLY WELDED (EXTERNAL)	SA 516 GR.60
CLIPS & ATTACHMENTS WELDED OVER PAD (EXTERNAL)	IS 2062 GR.B
WRAPPER PLATE	-
DEMISTER / GRID / BOLTING	-
PAD FOR EXTERNAL ATTACHMENTS	SA 516 GR.60
LIFTING LUGS	SA 516 GR.60
PIPE DAVIT	SA 516 GR.60

STATUTORY REGULATIONS

INDIAN BOILER REGULATIONS (IBR)
DEPARTMENT OF EXPLOSIVES, NAGPUR (CCOE)

APPROXIMATE WEIGHT (KGS)

ERECTOR WEIGHT	OPERATING WEIGHT
HYDROTEST WEIGHT	HYDROTEST WEIGHT
(SHOP)	(FIELD)
NUMBER OF ITEMS :	-



ENGINEERS INDIA LIMITED
KOLKATA

JOB NO.: 6907
CLIENT: BCPL
PLANT: GSU, LAKWA

1	06.05.2010
0	02.02.2010
A	27.05.2009

REVISED AS MARKED
ISSUED FOR PURCHASE
ISSUED FOR BIDS

REVISION

RR/PB	AKG
RR/PB	AKG
RR/PB	AKG
CHK	APPROVED

VESSEL DESIGN DATA
REGENERATOR
ITEM NO. 051-CC-102

केसेल डिजाइन ड्राटा
रीजेनेरेटर
आइएम नंबर 051-सीसी-102

DRAWING NO.
6907-051-16-46-3005
SHEET 2 OF 5

REV.
1



ENGINEERS INDIA LIMITED
KOLKATA

JOB NO.:	6907
CLIENT:	BCPL
PLANT:	GSU, LAKWA

REV.	DATE	REVISION
1	06.05.2010	REVISED AS MARKED
0	02.02.2010	ISSUED FOR PURCHASE
A	27.05.2009	ISSUED FOR BIDS

VESEL DESIGN DATA
REGENERATOR
ITEM NO. 051-CC-102

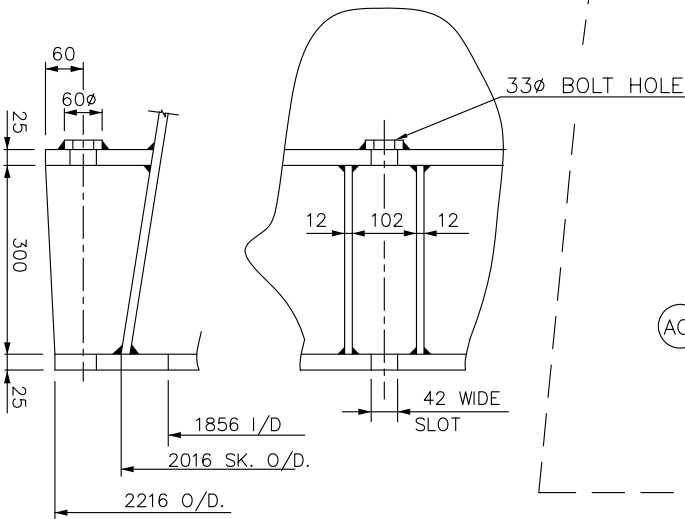
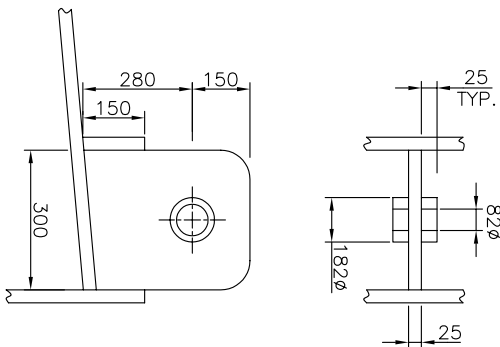
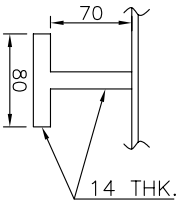
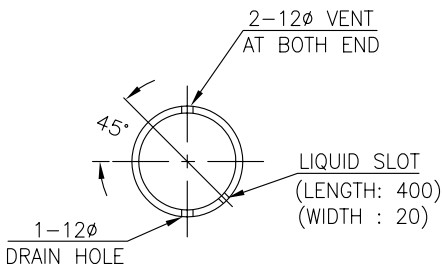
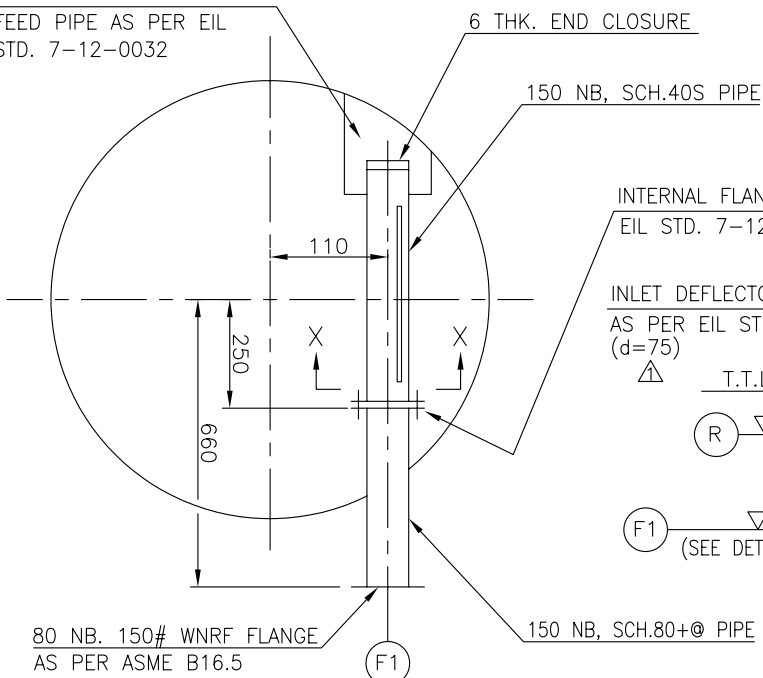
वेसेल डिजाइन डेटा
रीजेनेरेटर
अइटम नम्बर 051-सीसी-102

DRAWING NO.	6907-051-16-46-3005
SHEET 3 OF 5	1

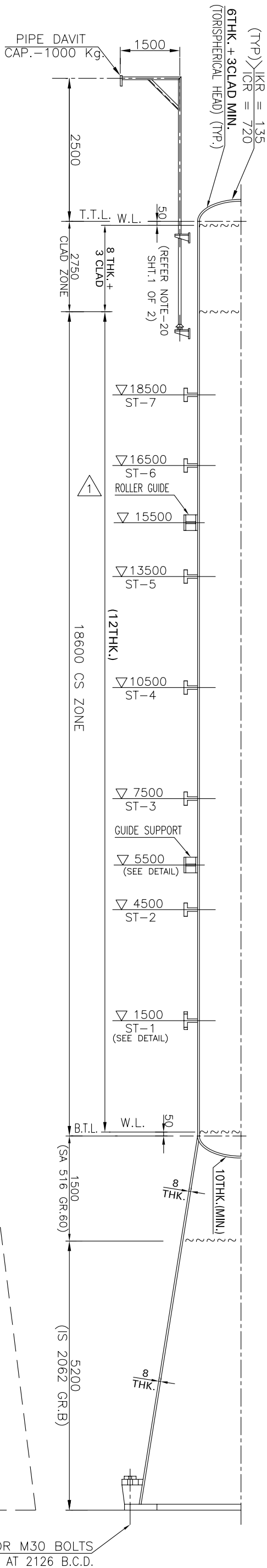
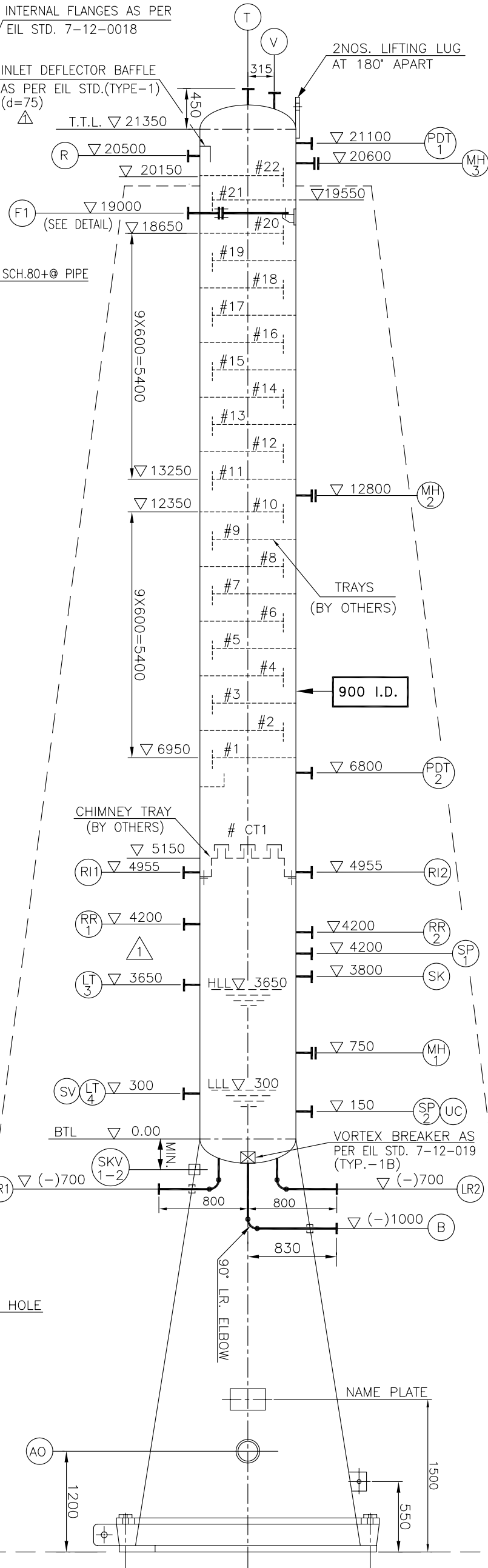
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FILE NAME: 6907-051-16-46-3005-A-3

SUPPORT FOR INTERNAL
FEED PIPE AS PER EIL
STD. 7-12-0032

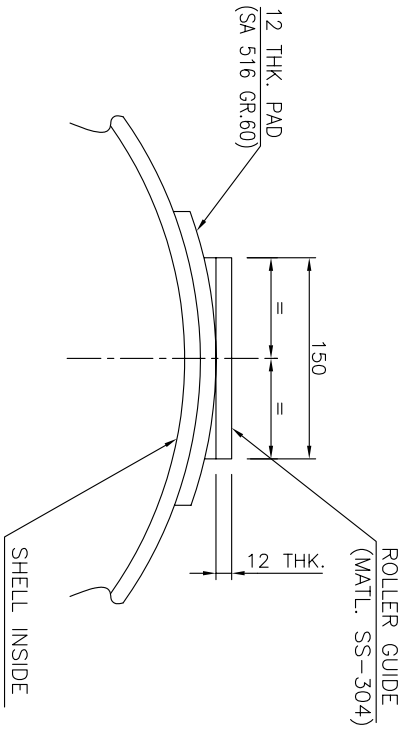
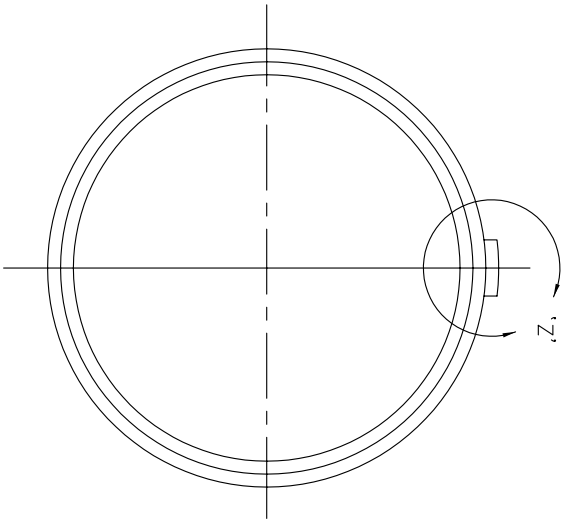


(ALL OTHER DIMENTION AS PER EIL STD.)

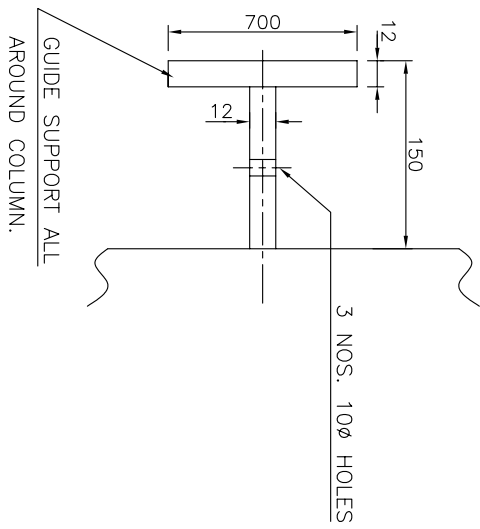


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FILE NAME: 6907-051-16-46-3005-A-3



LOCATION OF ROLLER GUIDE AND SUPPORT GUIDE

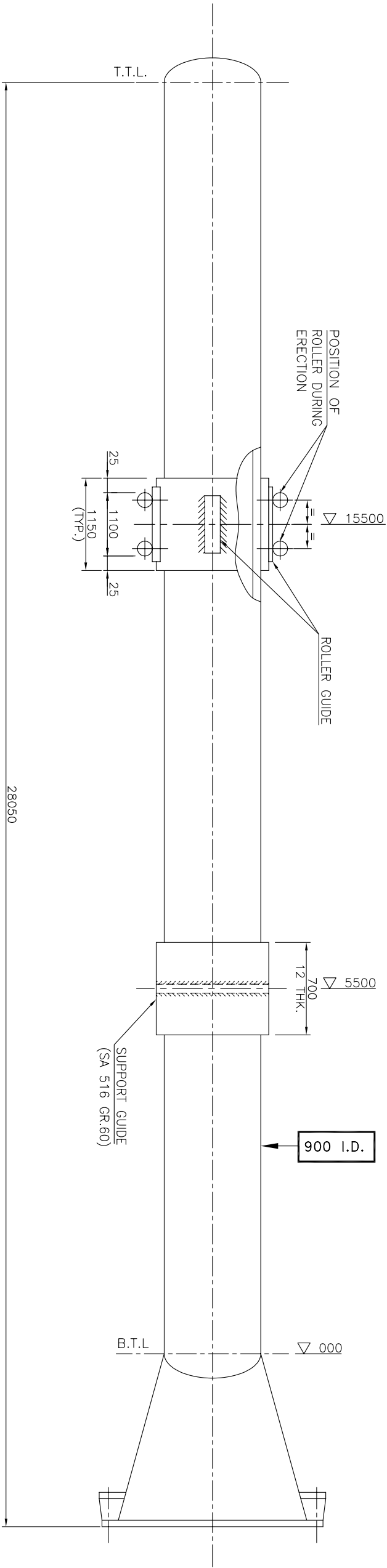


ARRANGEMENT OF ROLLER GUIDE

(8 NOS. ROLLERS AT EACH ROLLER GUIDE ELEVATION)

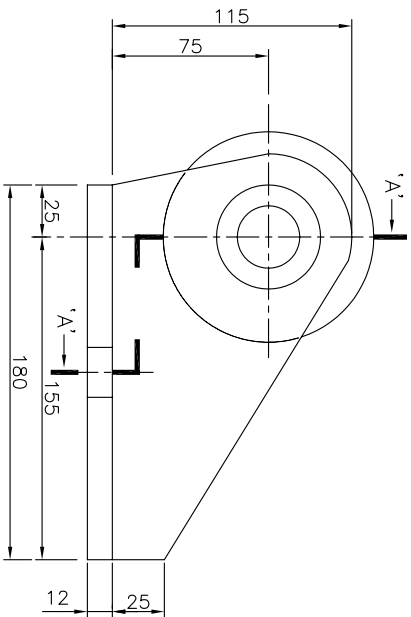
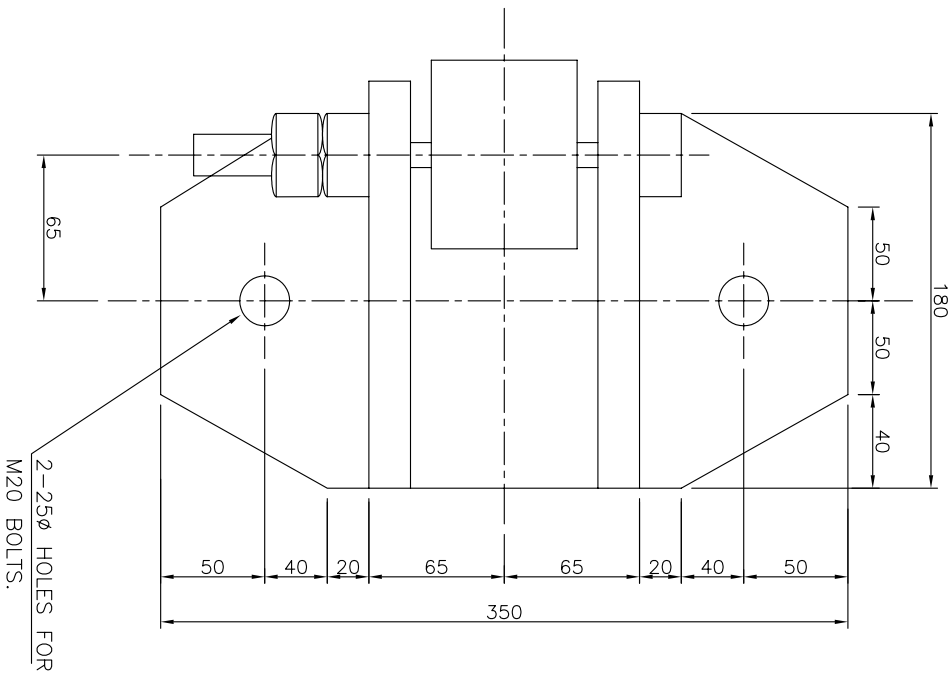
DETAIL - 'Z'
(TYP.)

TYP. DETAIL OF GUIDE SUPPORT

[illegible]

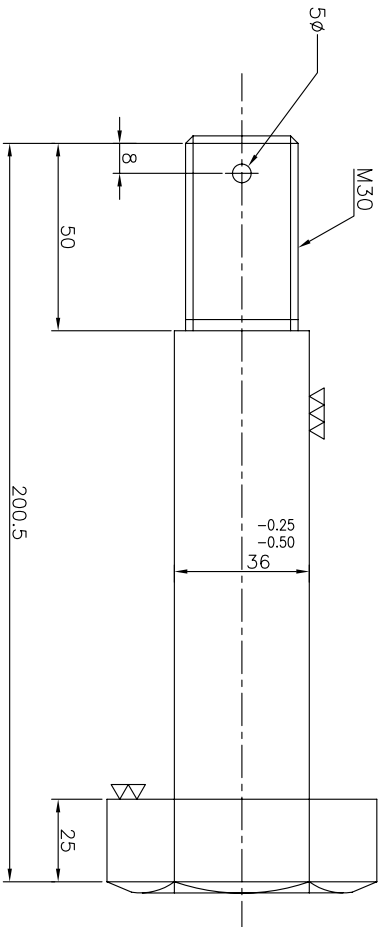
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FILE NAME: 6907-051-16-46-3005-A-3

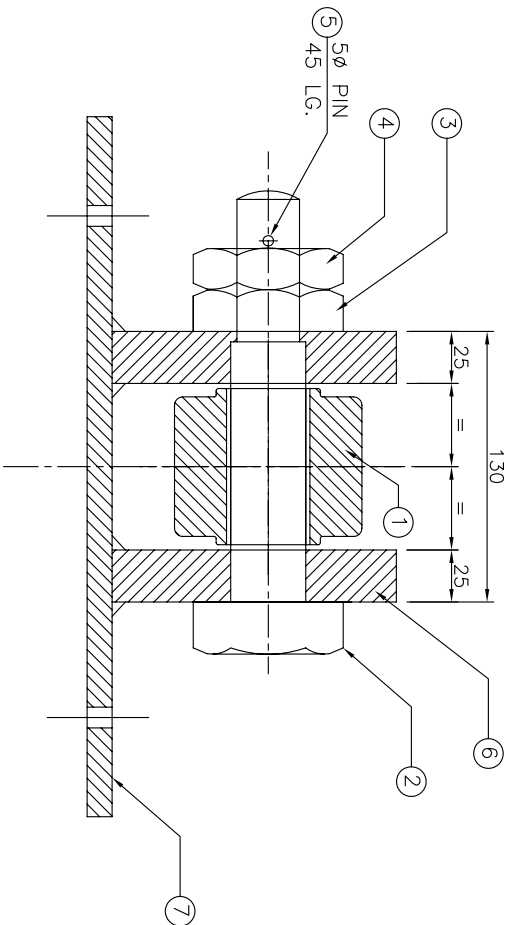


NOTE :-

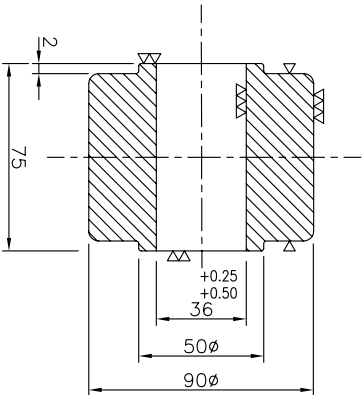
1. SUPPLY OF ROLLER GUIDE AS PER DETAIL IN THIS SHEET IS BY OTHERS.



DETAIL OF PIN ②



DETAIL OF ROLLER ①



SECTION 'A-A'

[illegible]

7.	BASE PLATE	SA 516 GR.60
6.	SUPPORTS	SA 516 GR.60
5.	PIN	SS304
4.	LOCK NUT	SS304
3.	NUT	SS304
2.	PIN	SS304
1.	ROLLER	SS304
PART NO.	DESCRIPTION	MATERIAL SPEC.