



Project No.: 17187		MATERIAL REQUISITION	 ABAN AIR-COOLER CO.
Req. No.: 1210/1			
Rev. No.: 02			
Preliminary	<input type="radio"/>	Code No.: QF-TE-02	ENGINEERING DEPARTMENT
Final	<input checked="" type="radio"/>	Date & Rev.: 1394/11/16 - 1	ERP : 132470
			SRD : 04.Aug.2021
			PAGE 1 OF 5

MATERIAL REQUISITION FOR LOUVER

2	31-Jul-2021	ISSUE FOR ROCUREMENT	M.Maghsad	M. Rostami	P.Karimzadeh
1	26-May-2021	ISSUE FOR ROCUREMENT	M.Maghsad	M. Rostami	P.Karimzadeh
0	10-Mar-2021	ISSUE FOR ROCUREMENT	M.Maghsad	M. Rostami	P.Karimzadeh
Rev.	Date	Description	Prepared	Checked	Approved

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			SRD : 04.Aug.2021
			PAGE 2 OF 5

TABULATION OF REVISED PAGE

Page	Revisions							Remarks	Page	Revisions							Remarks
	0	1	2	3	4	5	6			0	1	2	3	4	5	6	
1	x								35								
2	x								36								
3	x								37								
4	x								38								
5	x	x	X						39								
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
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			SRD : 04.Aug.2021
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1- PURPOSE

The purpose of this document is to define vendor's scope of supply of **Louver** for air cooler in this requisition.

2- DEFINITION

For the purpose of this material requisition, the following definitions shall apply:

Contractor: ABAN AIR COOLER (AAC)

Vendor: (to be defined)

3- LIST OF EQUIPMENT INQUIRED

ITEM NO.	TAG NUMBER	QTY.	DESCRIPTION	LOCATION
1	-	1	Air Cooler	-

4- APPLICABLE CODES & STANDARD


N/A

5- REQUIRED DOCUMENTATION

N/A

6- SCOPE OF WORK , SUPPLY & SERVICE

POS	DESCRIPTION	MATERIAL	QTY.	UNIT WEIGHT (Kg)	TOTAL WEIGHT (Kg)	REMARK
1	LOUVER DRAWING	--	1	928	928	30-AE-9002
2	LOUVER DRAWING	--	1	928	928	30-AE-9003
3	LOUVER DRAWING	--	1	1483	1483	30-AE-9004

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			SRD : 04.Aug.2021
			PAGE 5 OF 5

7- SPARE PARTS

N/A

8- DEVIATIONS/EXCEPTION/ALTERNATION FROM MATERIAL REQUISITION'S REQUIREMENTS

If any, shall be mentioned by vendor

9- TECHNICAL NOTES

N/A

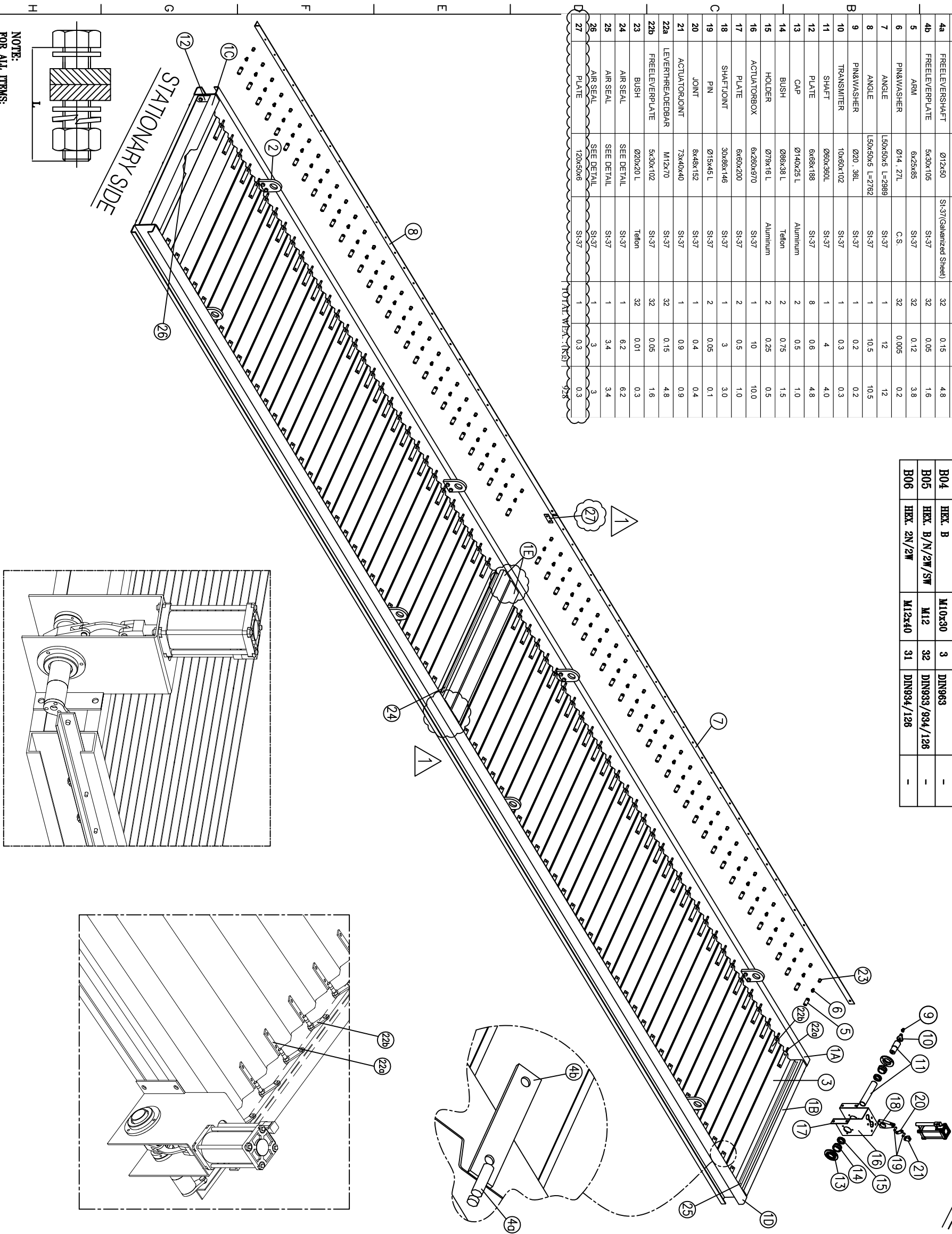


10- ATTACHMENTS

Row	Description	DOCUMENT No.	REVISION	NO. OF SHEETS
1	LOUVER DRAWING	VP-90-ME-9013-0038	01	3
2	LOUVER DRAWING	VP-90-ME-9013-0039	01	3
3	LOUVER DRAWING	VP-90-ME-9013-0040	01	3

1		2		3		4	
NO.	DESCRIPTION	SIZE	MAT.	QTY.	WEIGHT	T.WEIGHT	
1A	LOU/ERRFRAME	6x392x5760	St-37	1+MIRROR	106.5	213	
1B	LOU/ERRFRAME	6x392x2280	St-37	1	42.0	42.0	
1C	LOU/ERRFRAME	6x392x2280	St-37	1	42.0	42.0	
1E	LOU/ERRFRAME	6x392x2280	St-37	1+MIRROR	42.0	84.0	
2	LIFTING	15x120x170	St-37	8	2.4	19.2	
3	BLADE	2x202x2724	St-37	32	7.3	233.6	
4a	FREE/EVERPLATE	Ø12x50	St-37(Galvanized Sheet)	32	0.15	4.8	
4b	FREE/EVERPLATE	5x30x105	St-37	32	0.05	1.6	
5	ARM	6x23x65	St-37	32	0.12	3.8	
6	PIN&WASHER	Ø14, 27L	C.S.	32	0.005	0.2	
7	ANGLE	150x50x5 L=2989	St-37	1	12	12	
8	ANGLE	150x50x5 L=2782	St-37	1	10.5	10.5	
9	PIN&WASHER	Ø20, 36L	St-37	1	0.2	0.2	
10	TRANSMITTER	10x60x102	St-37	1	0.3	0.3	
11	SHAFT	Ø60x360L	St-37	1	4	4.0	
12	PLATE	6x68x188	St-37	8	0.6	4.8	
13	CAP	Ø140x25 L	Aluminum	2	0.5	1.0	
14	BUSH	Ø86x38 L	Teflon	2	0.75	1.5	
15	HOLDER	Ø79x16 L	Aluminum	2	0.25	0.5	
16	ACTUATORBOX	6x260x970	St-37	1	10	10.0	
17	PLATE	6x60x200	St-37	2	0.5	1.0	
18	SHAFTJOINT	30x88x146	St-37	1	3	3.0	
19	PIN	Ø15x45 L	St-37	2	0.05	0.1	
20	JOINT	8x48x152	St-37	1	0.4	0.4	
21	ACTUATORJOINT	73x40x40	St-37	1	0.9	0.9	
22a	LEVER/HEAD&DEBAR	M12x70	St-37	32	0.15	4.8	
22b	FREE/EVERPLATE	5x30x102	St-37	32	0.05	1.6	
23	BUSH	Ø20x20 L	Teflon	32	0.01	0.3	
24	AIR SEAL	SEE DETAIL	St-37	1	6.2	6.2	
25	AIR SEAL	SEE DETAIL	St-37	1	3.4	3.4	
26	AIR SEAL	SEE DETAIL	St-37	1	3	3	
27	PLATE	120x50x6	St-37	1	0.3	0.3	
				TOTAL WEIGHT: 978			

NUM	DESCRIPTION	SIZE	QTY	STANDARD	REMARK
B01	HEX. B/N/2W/5W	M16x50	16	DIN933, 934 / 126	-
B02	HEX. B/N/2W/5W	M16x40	16	DIN933, 934 / 126	-
B03	HEX. B	M6x20	6	DIN963	-
B04	HEX. B	M10x30	3	DIN963	-
B05	HEX. B/N/2W/5W	M12	32	DIN933, 934 / 126	-
B06	HEX. 2N/2W	M12x40	31	DIN934 / 126	-




REFERENCE DRAWING	
TITLE	DWG NO
General Arrangement Drawing 30-AE-9002	VP-90-ME-9013-0016
Tube Bundle Detail Drawing 30-AE-9002	VP-90-ME-9013-0052
Side Frame Drawing 30-AE-9002	VP-90-ME-9013-0020
Steel Structure Drawing 30-AE-9002	VP-90-CV-9013-0006

1-ALL THE WELDS ARE CONTINUOUS EXCEPT SPECIFIED.
2-ALL DIMENSIONS ARE IN MM EXCEPT SPECIFIED.
3-SURFACE PROTECTION :
PAINTING ACCORDING VP-90-QC-9013-0016
4-EVENTUAL WELDED JOINTS OF FRAMES SHALL BE GROOVED TYPE
P.T. TEST SHALL BE DONE
5-BOLTING DIN 933/ DIN 934/ DIN 963 HOT DIP 1295
6-TOTAL QTY: 1x1=1

(SEE SHEET 2 OF 3 OF THIS DRAWING)

Code1	<input type="checkbox"/> No Comment (Applicable only for "For REVIEW" Documents) AND Vendor Data Book No comment and the document are released for Manufacturing
Code2	<input type="checkbox"/> Commented (Applicable for For Review / For MFG/DRG/IMP Documents; Vendor shall correct, revise and resubmit the document for approval. The document shall be evolved under the status of "Re Revised Issue". All corrected documents shall be resubmitted before starting the Manufacturing process
Code3	<input type="checkbox"/> No Comment with Note(s) (Applicable Only for "For REVIEW" Documents) Vendor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.
No Code	<input type="checkbox"/> No Code (Applicable Only for "For Information" Documents) Documents have been submitted for Purchase, Information (PI) Consistency, completeness and correctness of document content is Vendor's responsibility

The above checking result by Neethan shall in no way relieve
 Vendor of any liability, obligation and responsibility out of the
 purchase order and the mutual agreement in writing

	
DATE : _____ DEPT: _____ Signature : _____	

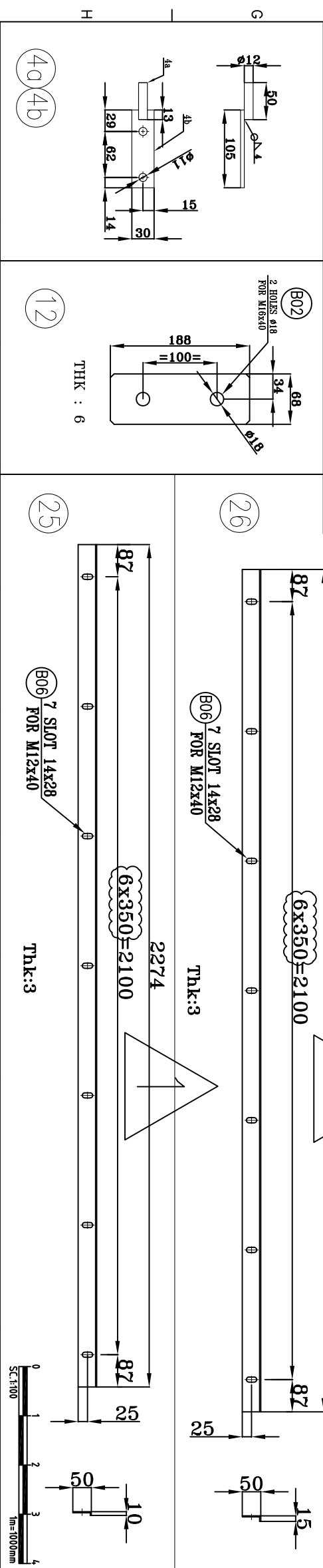
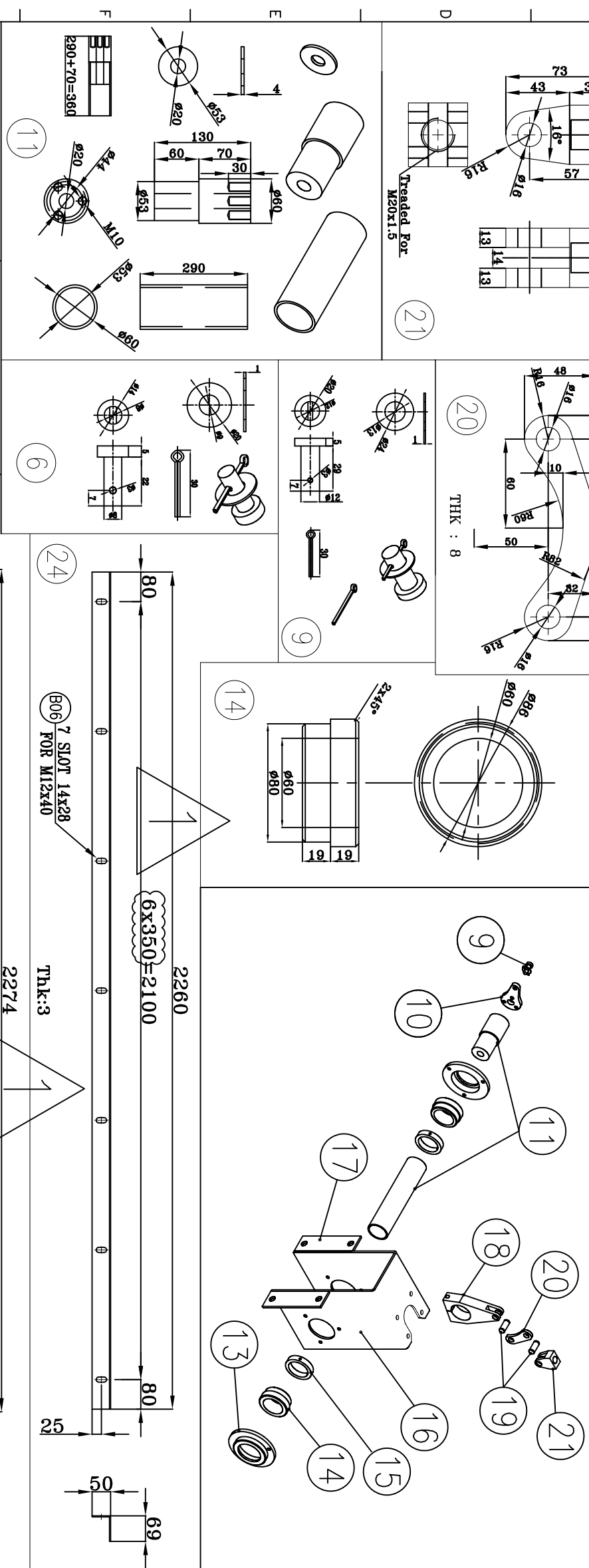
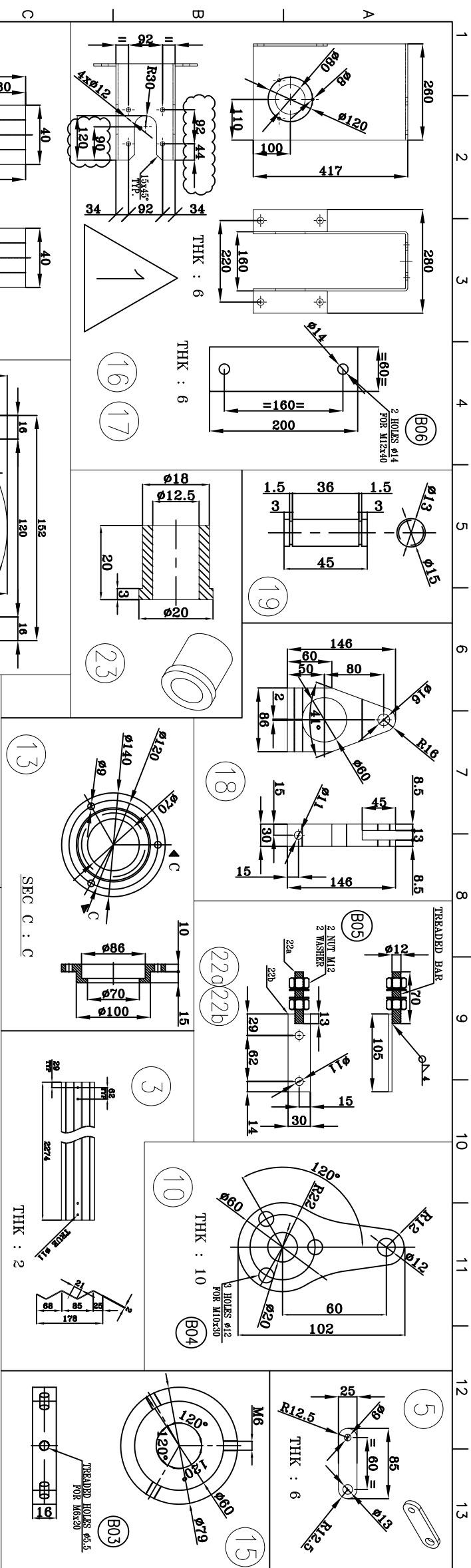
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B						
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0	FIRST ISSUE	FR	M/FROZ01	M/FROZ02	M/FROZ03	P/FROZ04
Rev.	DESCRIPTION	POI	DESIGNED	DRAWN	CHECKED	APPROVED
IN HOUSE REVISIONS		MORRISAN CODE:				
						31 JUL 2021


02						
01	AS BUILT	FR	M-FR002	M-Magad	M-Kosham	31 JUL 2021
00	FIRST ISSUE	FR	M-FR002	M-Magad	M-FR001	21 SEP 2021
Rev.	DESCRIPTION	POI	DESIGNED	DRAWN	CHECKED	APPROVED DATE

VENDOR:  AAC ABAN AIR COOLER	CONTRACTOR:  NORAHAN Engineering & Contracting	CLIENT:  Gulf Air General Manager Engineering
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<p>Louwer Drawing 30-AE-9002</p>			
<p>DRAWING NO: VP-90-ME-9003-0038</p>			
PROJECT NO: 30	SCALE:	REV. NO.: 01	SHEET: 1 OF 3
		SIZE:	A3



REFERENCE DRAWING	
TITLE	DWG.NO
Tube Bundle Detail Drawing 30-AE-9002	VP-90-ME-9013-0052
General Arrangement Drawing 30-AE-9002	VP-90-ME-9013-0016
Side Frame Drawing 30-AE-9002	VP-90-ME-9013-0038
Steel Structure Drawing 30-AE-9002	VP-90-CV-9013-0006

Code1	<input type="checkbox"/> No Comment Applicable only for "For REVIEW" Documents) AND Vendor Data Book	No comment and the document are released for Manufacturing			
Code2	<input type="checkbox"/> Commented Applicable for For Review / Ex- Review Documents) Vendor shall correct, revise and resubmit the document with correct, revised and resubmit the document. The document shall be reviewed under the status of "Re-Raised Issue". All corrected documents shall be resubmitted before starting the Manufacturing Process	<input type="checkbox"/> No Comment with Note(s)			
Code3	Applicable Only for "For REVIEW" Documents) Vendor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.	<input type="checkbox"/> No Comment			
Code4	Applicable Only for "For Informational" Documents) Vendor has been notified for purchaser's Information (PI), Consistency, complete review and correctness of document is Vendor's responsibility	<input type="checkbox"/> No Comment			
<p>The above checking result by Nodcan shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing.</p>					
 NODCAN		DATE : _____ DEPT: _____ Signature : _____			
Only for Internal review					
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ST	BU	PR	SA	IV	TL

Rev.	DESCRIPTION	POI	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
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2							

02						
01	AS BUILT	FR	NR00020	H000000	H000000	P/Kamranideh 31Jul2021
00	FRST ISSUE	FR	NR00020	H000000	P/Kamranideh 27Dec.2021	
Rmk.	DESCRIPTION	POI	DESIGNED	DRAWN	CHECKED	APPROVED DATE

PROJECT: ILAM SRP/SSU PLANT

VENDOR:

VENDOR:

AAC
ABAN AIR COOLER

CONTRACTOR:

NORAHDAN
Engineering & Contracting

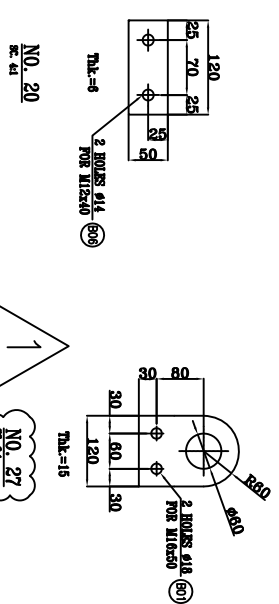
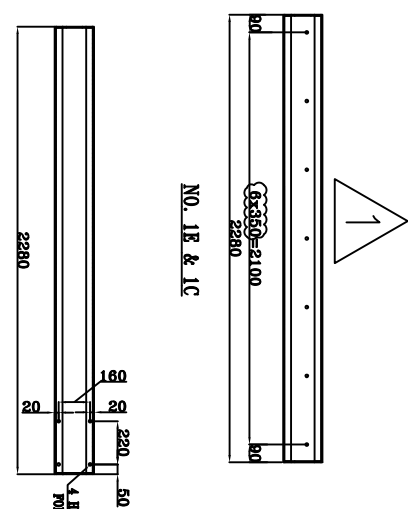
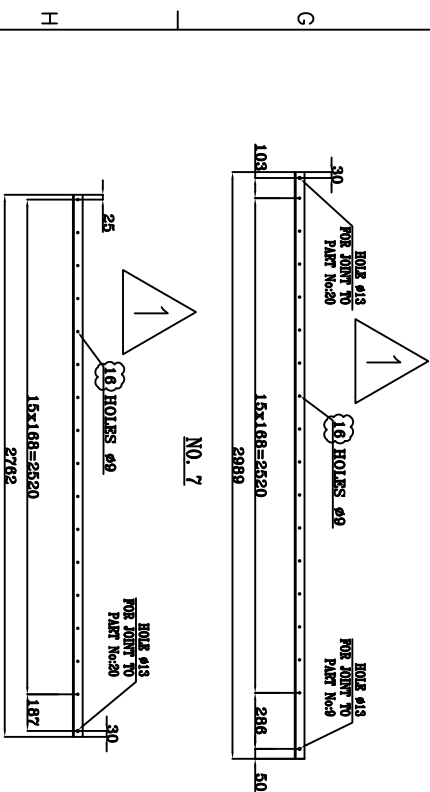
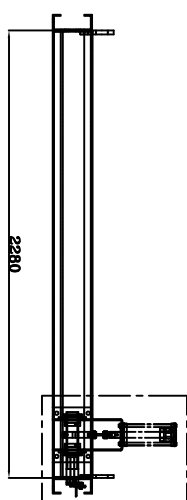
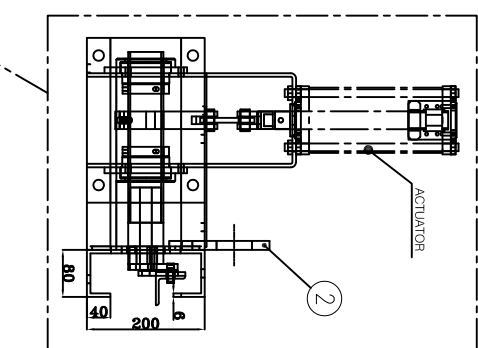
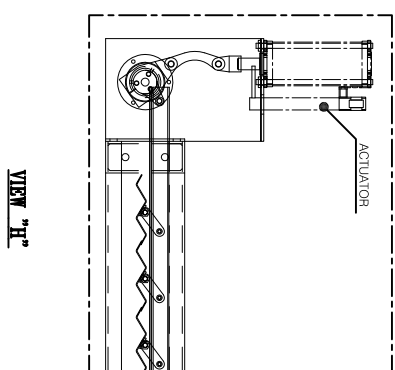
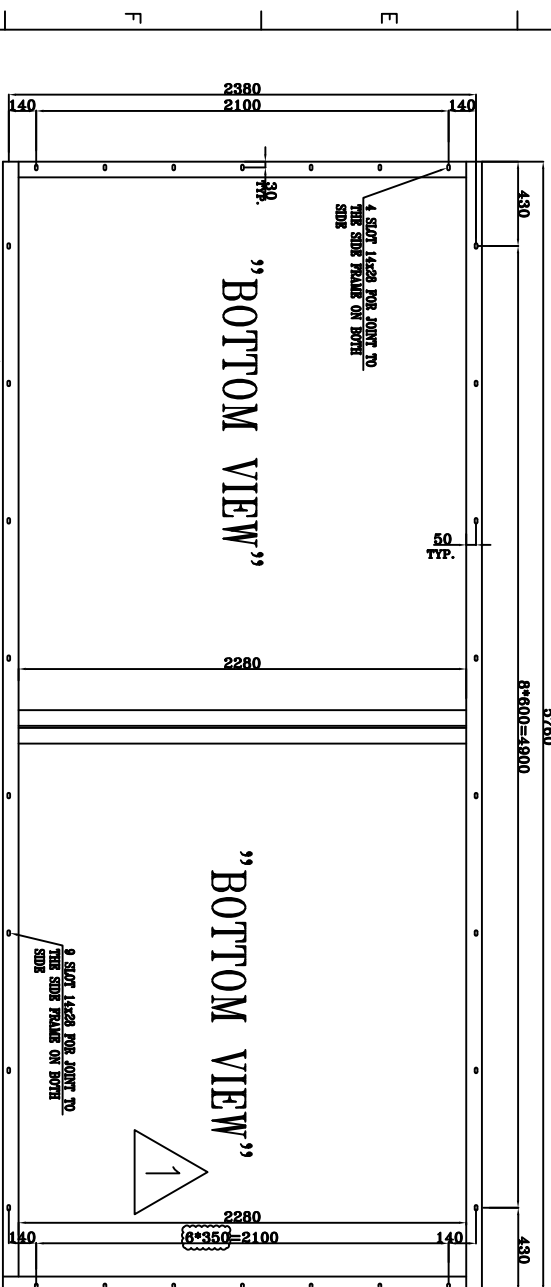
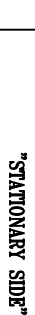
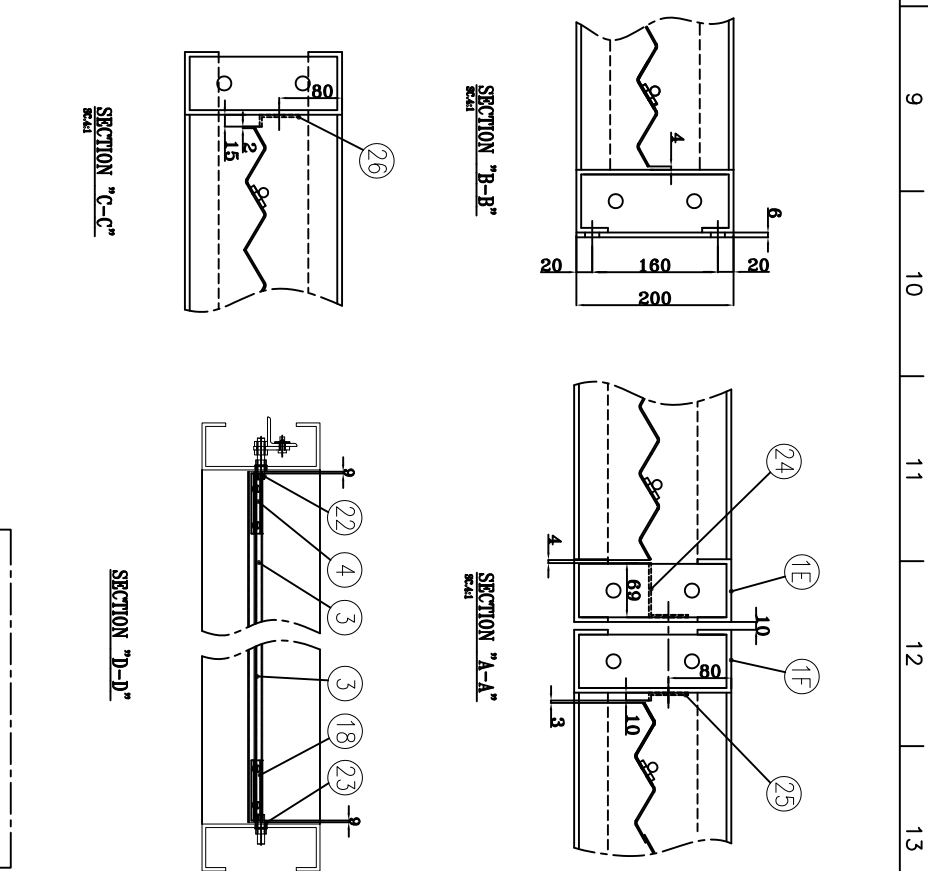
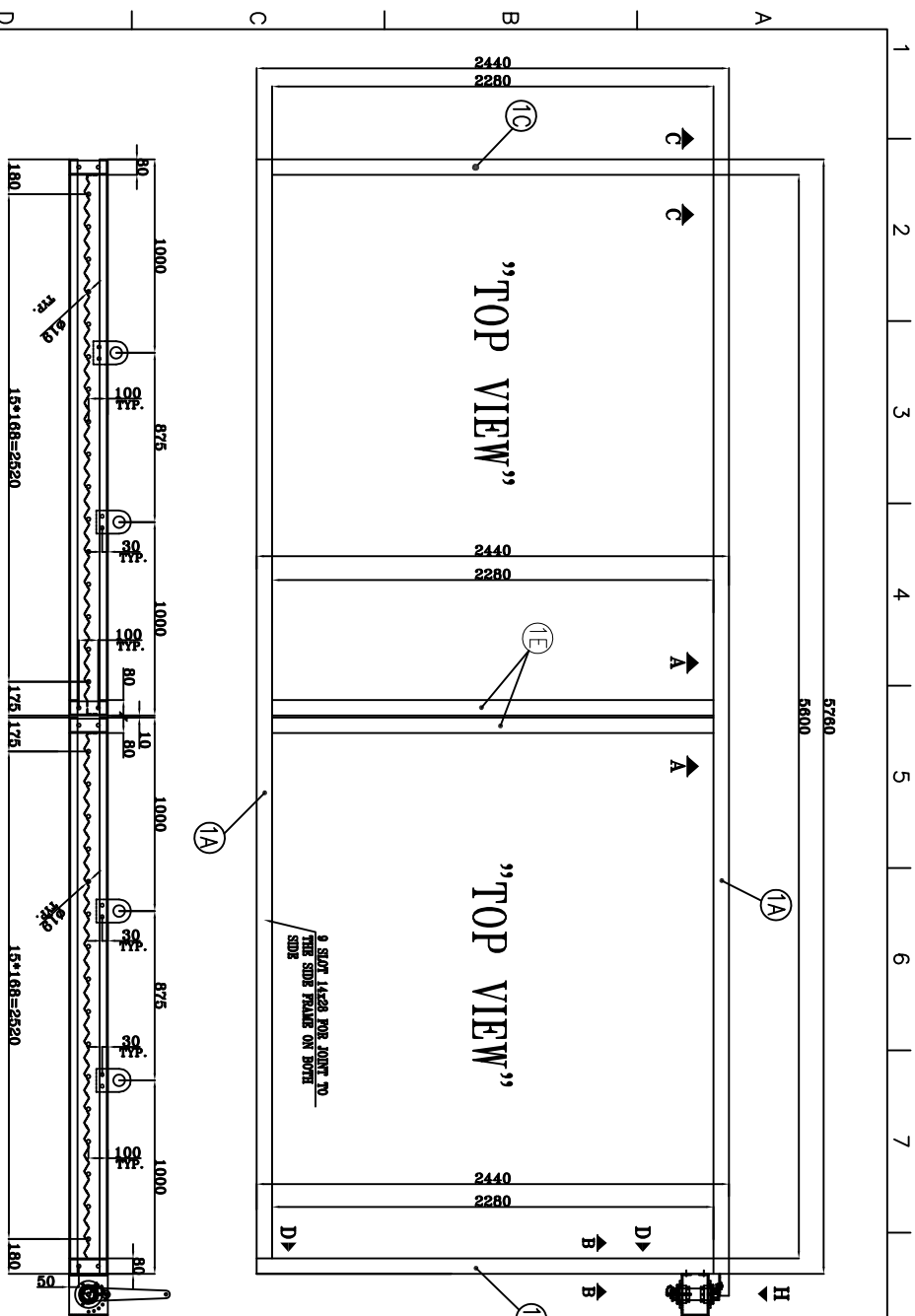
CLIENT:

City of Baghdad
water department


TITLE:

Louver Drawing 30-AE-9002

DRAWING NO.: VP-90-ME-9013-0038			
PROJECT NO.: 30	SCALE:	REV. NO.: 01	SHEET: 1 OF 3
		SIZE:	A3



REFERENCE DRAWING	
TITLE	DWG.NO
General Arrangement Drawing 30-AE-9003	VP-90-ME-9013-0017
Tube Bundle Detail Drawing 30-AE-9003	VP-90-ME-9013-0053
Side Frame Drawing 30-AE-9003	VP-90-ME-9013-0021
Steel Structure Drawing 30-AE-9003	VP-90-CV-9013-0007

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Code2	<input type="checkbox"/> Commented (Applicable for For Review /EC REVISION/EC) Vendor shall correct, re-submit the document by the date specified. The document shall be revised under the style of "Re- Revised Issue". All corrected documents shall be resubmitted before starting the Manufacturing process				
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DATE : _____ DEPT: _____ Signature : _____					
					
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ST	BU	PR	SA	HW	TL

B							
1	AS BUILT	FR	M-Frost	M-Hydrogel	M-Rosinani	P-Alexandrovich	31 Jul 2021
O	FIRST ISSUE	FR	M-Frost	M-Hydrogel	M-Frost	P-Alexandrovich	24 Feb 2021
Rev.	DESCRIPTION	POI	DISEIGNED	DRAWN	CHECKED	APPROVED	DATE
IN HOUSE REVISIONS							
NORMAN CODE:							

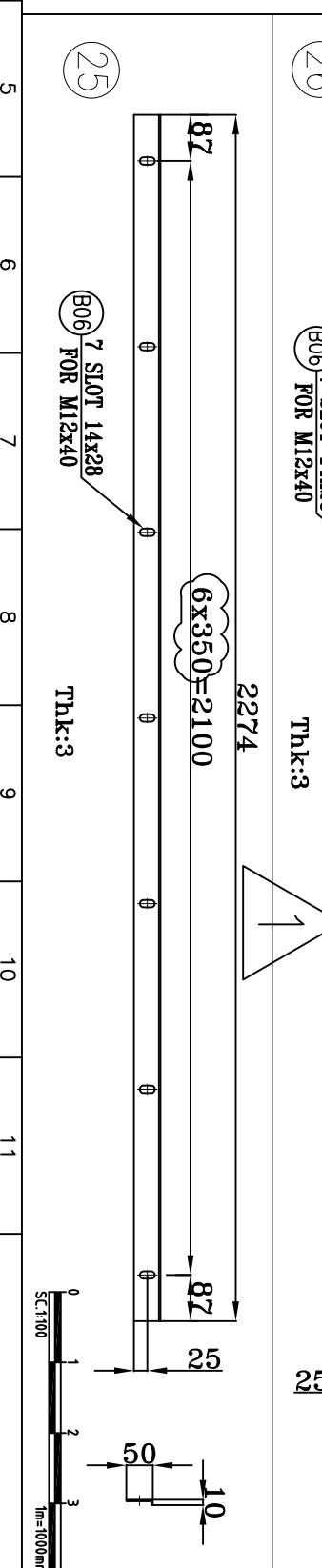
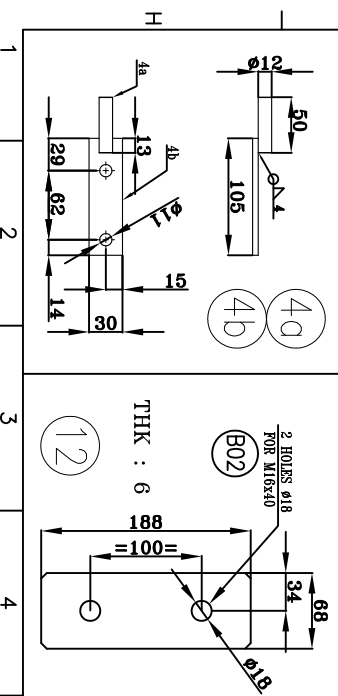
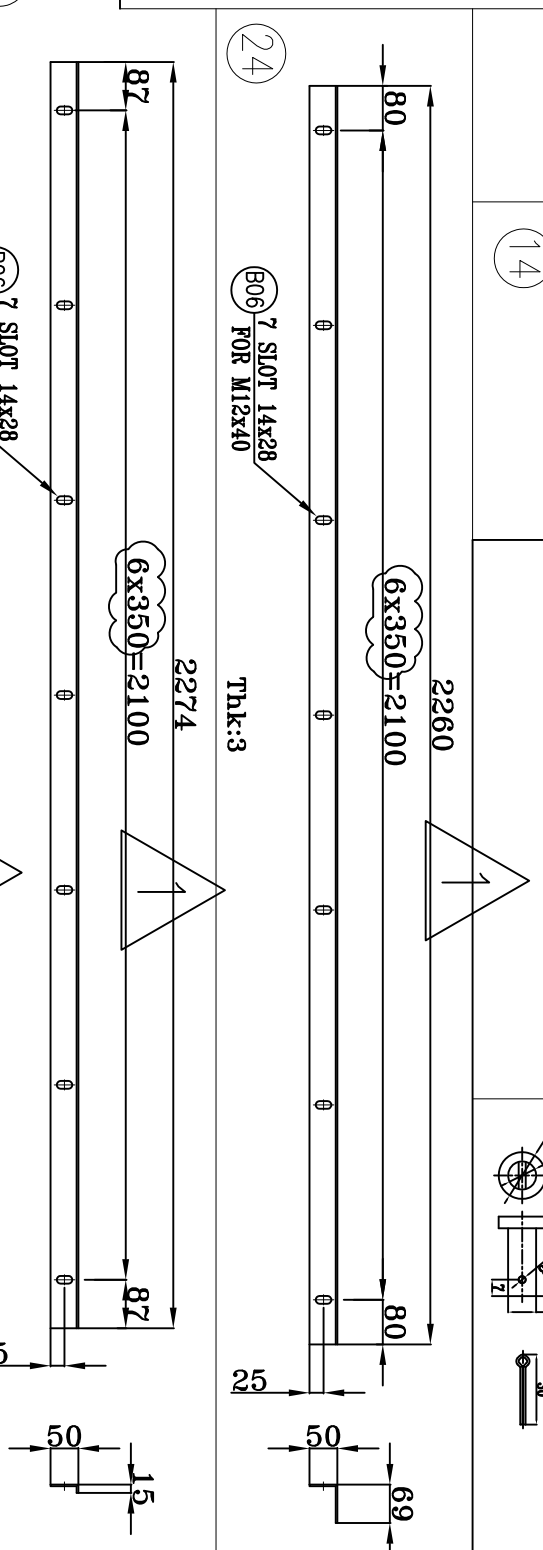
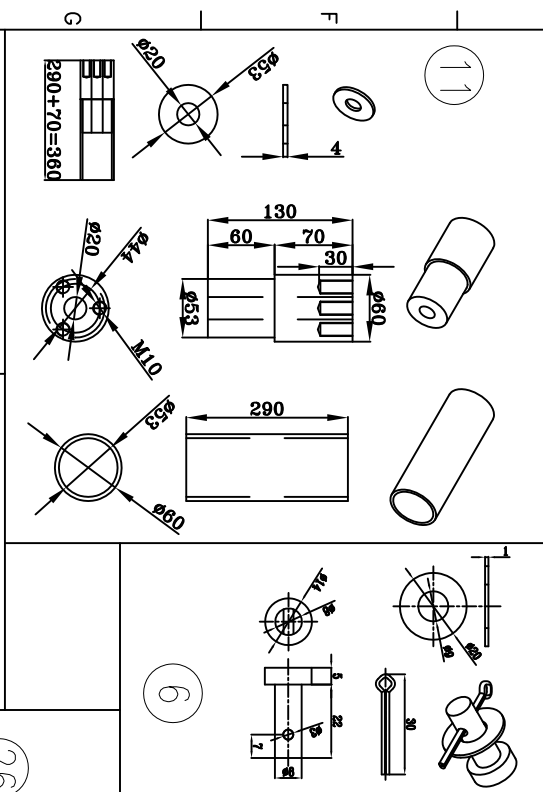
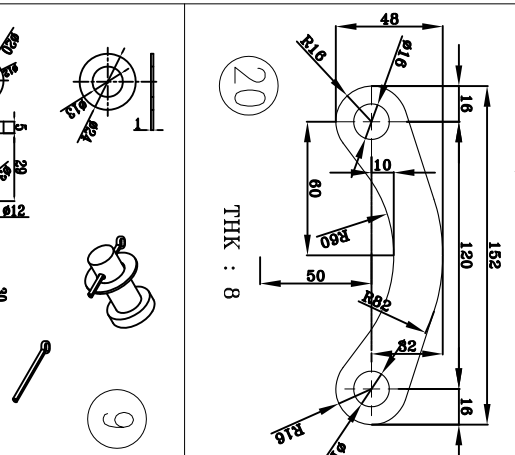
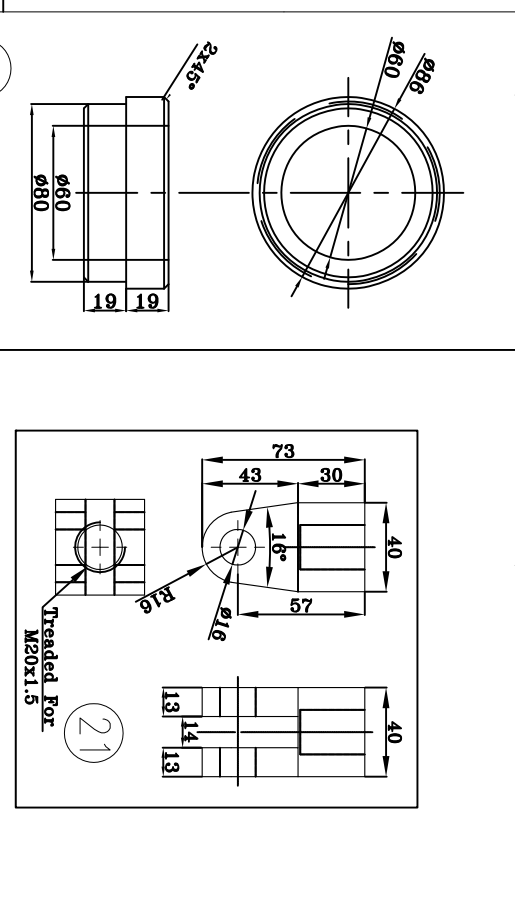
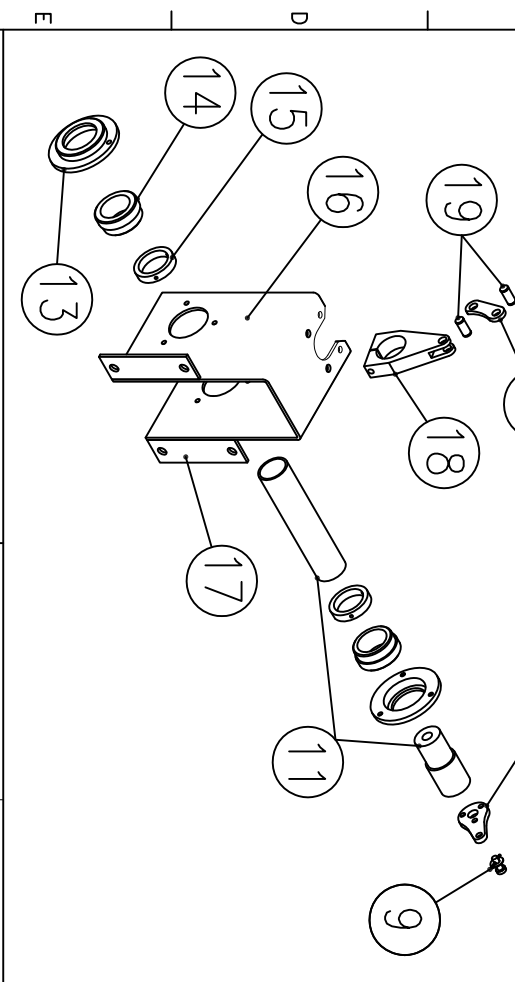
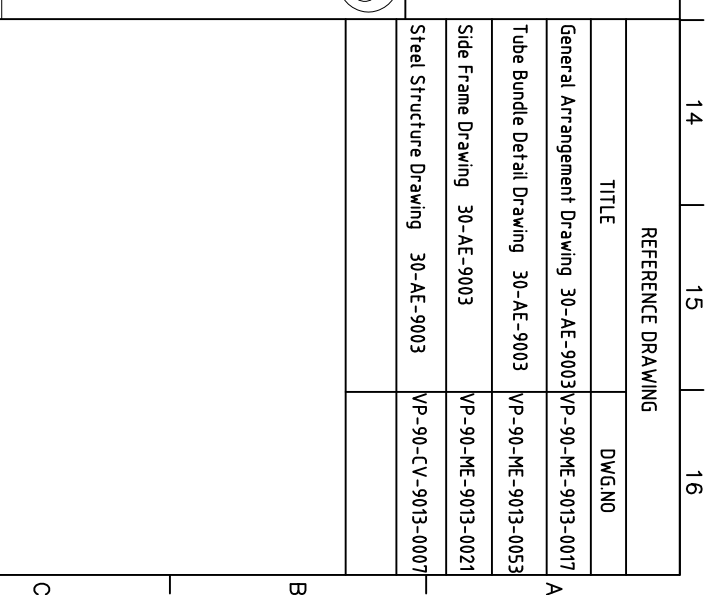
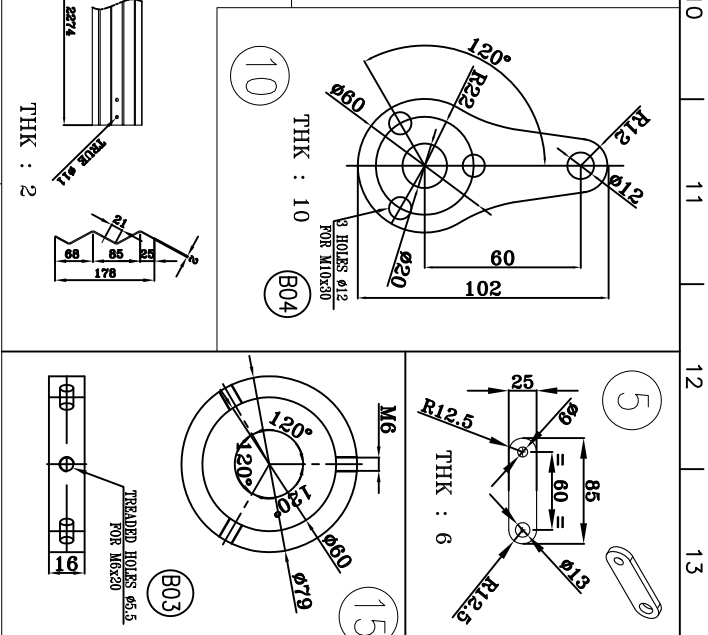
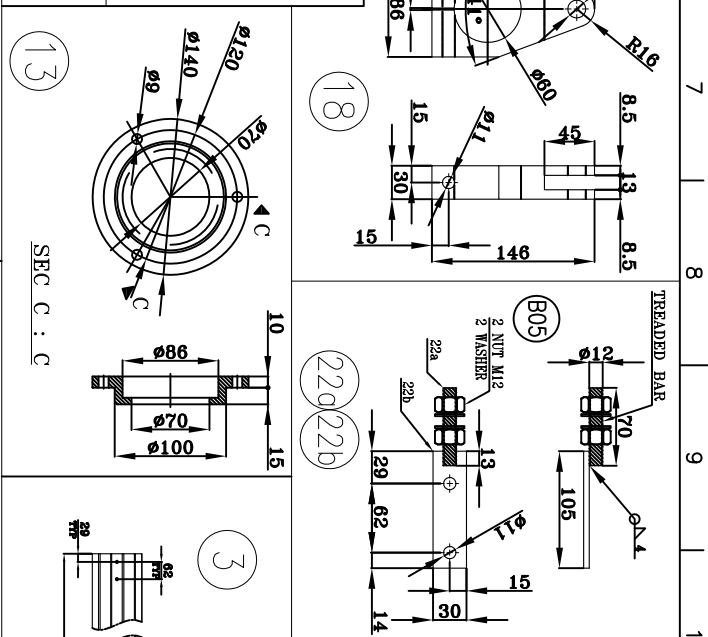
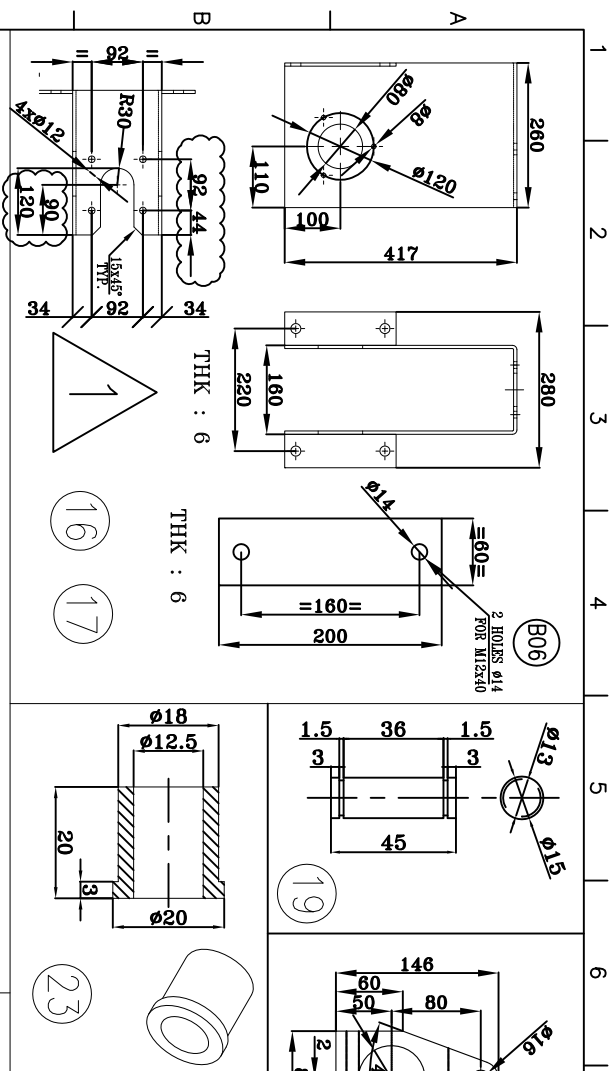
Rev.	DESCRIPTION	POI	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
02							
01	AS BUILT	RR	M.Firozi	M.Hayatzadeh	M.Abbasi Jami	P.Aminzadeh	31 Jul 2021
00	FIRST ISSUE	RR	M.Firozi	M.Hayatzadeh	M.Firozi	P.Aminzadeh	26 Feb 2021

PROJECT: ILAM SRP/SSU PLANT


<p>VENDOR:</p>  <p>AAC ABAN AIR COOLER</p>	<p>CONTRACTOR:</p>  <p>MORAHAN Engineering & Contracting</p>	<p>CLIENT:</p>  <p>City of Springfield Department of Public Works 1000 undergarments</p>
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TITLE:		PROJECT: 17187	
Louwer Drawing 30-AE-9003			
DRAWING NO.:		VP-90-ME-9013-0039	
PROJECT NO:	SCALE:	REV. NO. 01	SHEET: 1 OF 3 SIZE: A3




PEN widths(mm)	RED=0.15	YELLOW=0.2	GREEN=0.3	CYAN=0.4	BLUE=0.5	MAGENTA=0.6	WHITE=0.7	8 TO 256 = 0.1
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14	15	16
REFERENCE DRAWING		
TITLE	DWGNO	
General Arrangement Drawing 30-AE-9003	VP-90-ME-9013-0017	
Tube Bundle Detail Drawing 30-AE-9003	VP-90-ME-9013-0053	
Side Frame Drawing 30-AE-9003	VP-90-ME-9013-0021	
Steel Structure Drawing 30-AE-9003	VP-90-CV-9013-0007	

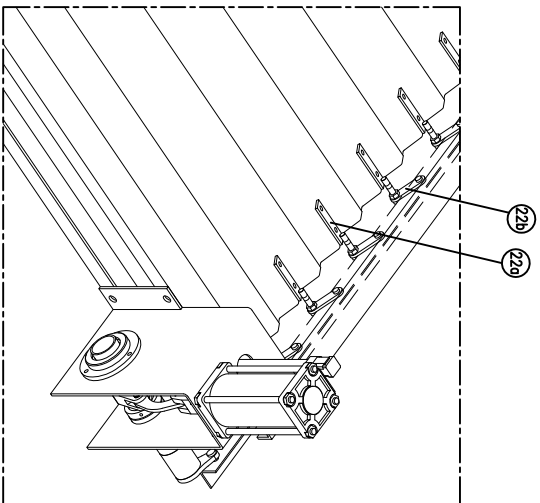
Code1	<input type="checkbox"/> No Comment (Applicable only for "For REVIEW" Documents) AND Vendor Data Book No comment and the document are released for Manufacturing				
Code2	<input type="checkbox"/> Commented (Applicable for For Review / For Release/Delayed Release Documents) The document shall be correct, relevant and shall contain the document information specified. The document shall be revised under the status of "Re-Reviewed Status". All corrected documents shall be resubmitted before starting the Manufacturing Process				
Code3	<input type="checkbox"/> No Commenting Work(s) (Applicable only for "For REVIEW" Documents) Vendor shall correct, revise and resubmit the document. The document is released for Manufacturing if it changes according to it.				
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<div></div> <div>DATE : _____ DEPT: _____ Signature : _____</div>					
Only for Internal review					
CV	PI	EL	IN	ME	MA
ST	BU	PR	SA	HW	TL

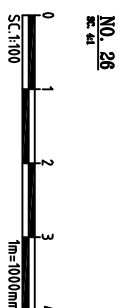
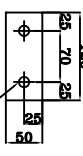
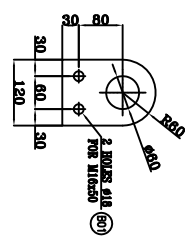
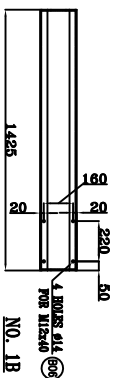
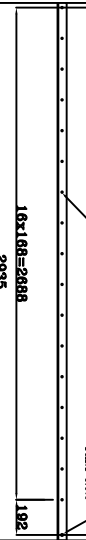
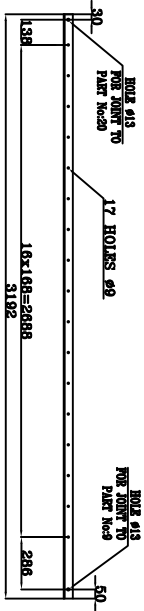
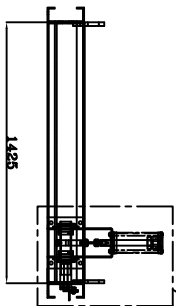
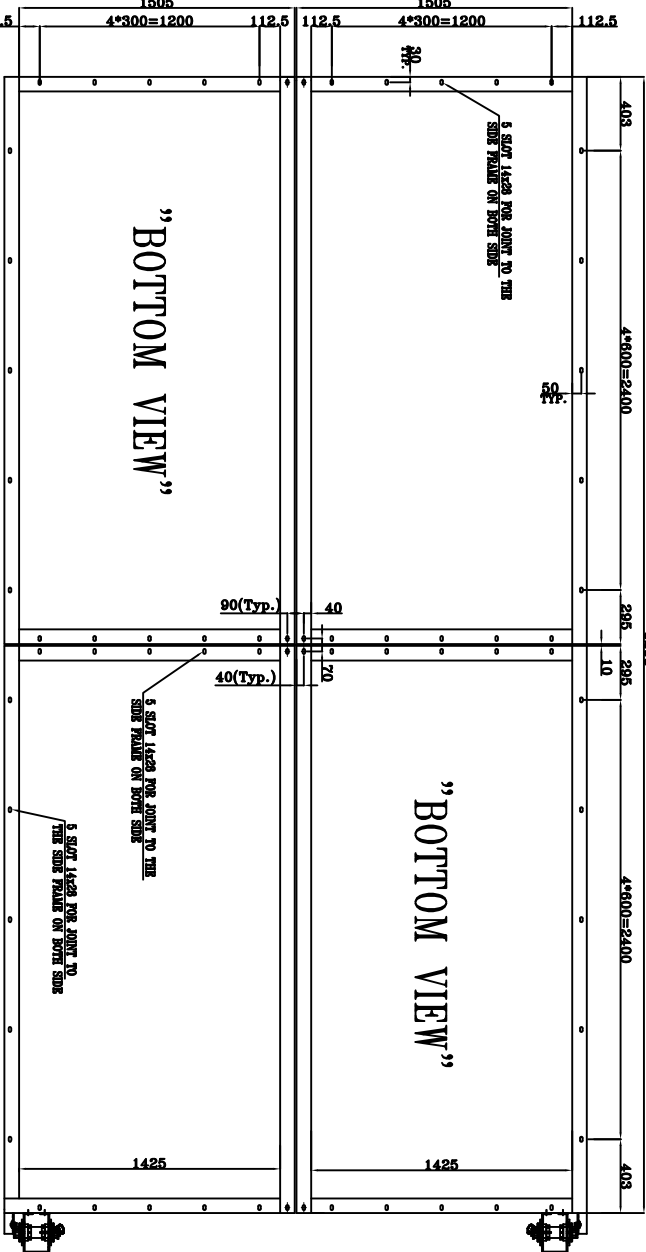
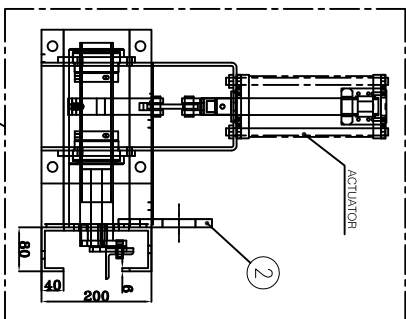
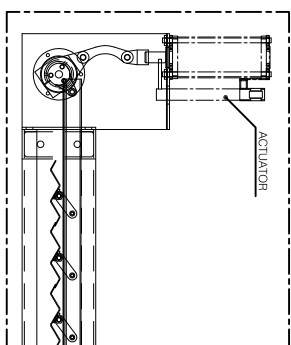
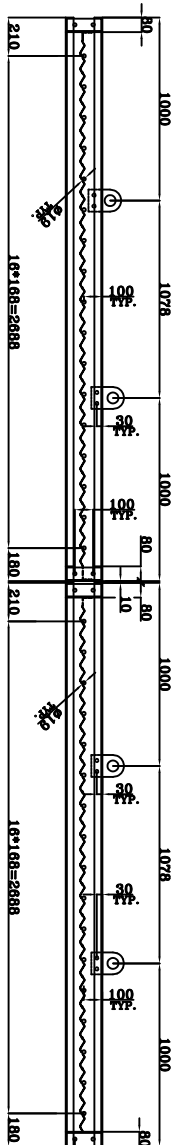
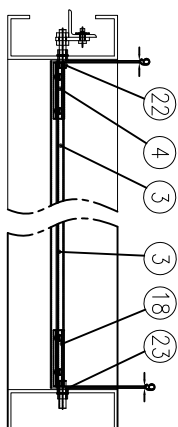
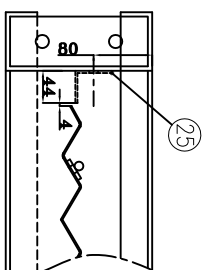
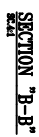
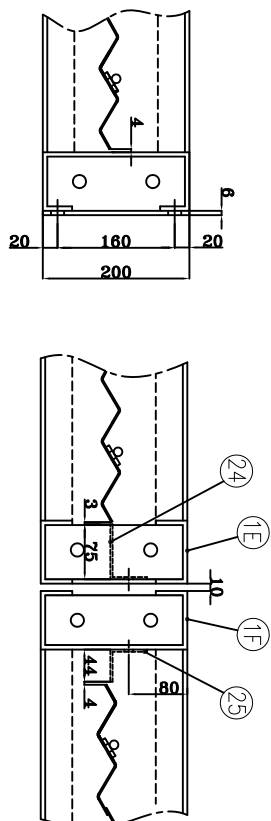
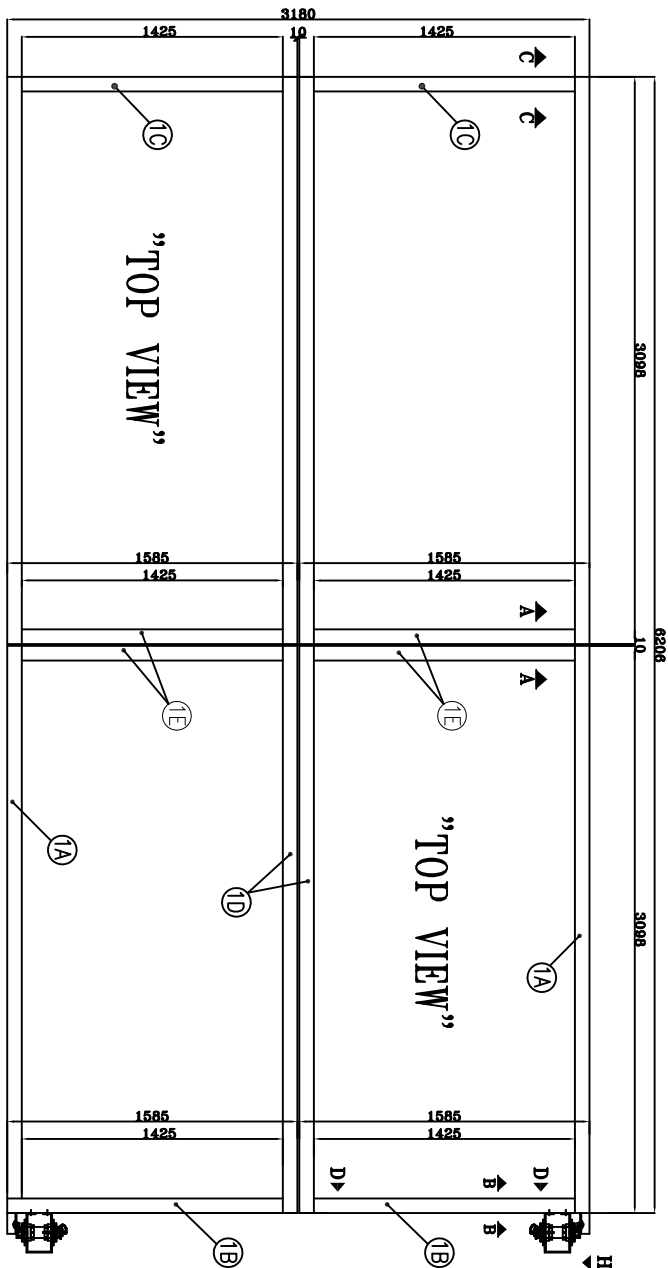
[illegible]

PROJECT:		IIAM SRP/SSU PLANT	
VENDOR:	CONTRACTOR:		
			
ABAN AIR COOLER		Engineering & Contracting	
TITLE:		CLIENT:	
Louver Drawing			
30-AE-9003		PROJECT/1187	
DRAWING NO.:		VP-90-ME-9013-0039	
PROJECT NO.:	SCALE:	REV. NO.:	SHEET: 1 OF: 3
30		01	SIZE: A3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
NO.	DESCRIPTION	SIZE	MAT.	QTY.	WEIGHT	T.WEIGHT									
1A	LOUVERFRAME	6x392x3098	SI-37	2+2 MIRROR	56.9	228									
1B	LOUVERFRAME	6x392x1425	SI-37	1+1 MIRROR	42.0	84									
1C	LOUVERFRAME	6x392x1425	SI-37	1+1 MIRROR	42.0	84									
1D	LOUVERFRAME	6x392x3098	SI-37	2+2 MIRROR	56.9	228									
1E	LOUVERFRAME	6x392x1425	SI-37	2+2 MIRROR	42.0	168									
2	LIFTING	15x120x170	SI-37	16	2.4	38.4									
3	BLADE	2x202x1420	SI-37	68	7.3	496.4									
4a	FREELEVERSHAFT	Ø12x50	SI-37(Galvanized Sheet)	68	0.15	10.2									
4b	FREELEVERPLATE	5x30x105	SI-37	68	0.06	3.4									
5	ARM	6x25x85	SI-37	68	0.12	8.2									
6	PN&WASHER	Ø14, 27L	C.S	68	0.005	0.3									
7	ANGLE	150x50x5 L=3192	SI-37	1+1 MIRROR	12	24									
8	ANGLE	150x50x5 L=2935	SI-37	2	0.2	0.4									
9	PN&WASHER	Ø20, 36L	SI-37	2	0.2	0.4									
10	TRANSMITER	10x60x102	SI-37	2	0.3	0.6									
11	SHAFT	Ø60x380L	SI-37	2	4	8.0									
12	PLATE	6x68x188	SI-37	16	0.6	9.6									
13	CAP	Ø140x25 L	Aluminum	4	0.5	2.0									
14	BUSH	Ø88x38 L	Teflon	4	0.75	3.0									
15	HOLDER	Ø79x16 L	Aluminum	4	0.26	1.0									
16	ACTUATORBOX	6x280x970	SI-37	2	10	20.0									
17	PLATE	6x60x200	SI-37	4	0.5	2.0									
18	SHAFTJOINT	30x88x146	SI-37	2	3	6.0									
19	PIN	Ø15x45 L	SI-37	4	0.05	0.2									
20	JOINT	8x48x152	SI-37	2	0.4	0.8									
21	ACTUATORJOINT	73x40x40	SI-37	2	0.9	1.8									
22a	LEVERTHREADEDBAR	M12x70	SI-37	68	0.15	10.2									
22b	FREELEVERPLATE	5x30x102	SI-37	68	0.05	3.4									
23	BUSH	Ø20x20 L	Teflon	68	0.01	0.7									
24	AIR SEAL	SEE DETAIL	SI-37	2	6.2	12.4									
25	AIR SEAL	SEE DETAIL	SI-37	2	3.4	6.8									
26	PLATE	PL 6x50x120	SI-37	2	0.6	1.2									
				TOTAL WEA. : (Kg)		1483									

NUM	DESCRIPTION	SIZE	QTY	STANDARD	REMARK
B01	HEX. B/N/2M/SW	M16x50	32	DIN933/934/126	-
B02	HEX. B/N/2M/SW	M16x40	32	DIN933/934/126	-
B03	HEX. B	M6x20	12	DIN963	-
B04	HEX. B	M10x30	6	DIN963	-
B05	HEX. B/N/2M/SW	M12	68	DIN933/934/126	-
B06	HEX. 2N/2M	M12x40	40	DIN934/126	-






REFERENCE DRAWING	
TITLE	DWG.NO
General Arrangement Drawing 30-AE-9004	VP-90-ME-9013-0018
Tube Bundle Detail Drawing 30-AE-9004	VP-90-ME-9013-0054
Side Frame Drawing 30-AE-9004	VP-90-ME-9013-0022
Steel Structure Drawing 30-AE-9004	VP-90-CV-9013-0008

Code1	<input type="checkbox"/> No Comment (Applicable only for "For REVIEW" Documents) AND Vendor Data Book No comment and the document are released for Manufacturing
Code2	<input type="checkbox"/> Commented (Applicable for for Review / For REVIEW/Under Documents) Vendor shall correct, revise and resubmit the document under the status of "R: Revised Issue". All corrected documents shall be resubmitted before starting the Manufacturing Process
Code3	<input type="checkbox"/> No Comment with Hold(s) <input type="checkbox"/> No Code (Applicable Only for "FOR REVIEW" Documents) Vendor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.
No Code	<input type="checkbox"/> Inapplicable Only for "For Manufacturing Documents" (Documents have been submitted for Production/Integration (PI) Consistency, completeness and correctness of document is Vendor's responsibility

The above checking result by Motorola shall in no way relieve
Vendor of any liability, obligation and responsibility out of the
purchase order and the mutual agreement in writing

 MOTOROLA	DENT : _____
	DEPT: _____
Signature : _____	

Only for Internal review									
CV	PI	EL	N	ME	MA				
ST	BU	PR	SA	IN	TL				

B						
1	AS BUILT	FR	Midwest	Midwest	Midwest	31 Jul 2027
0	FRST ISSUE	FR	Midwest	Midwest	Parmesan	10 May 2027
Rev.	DESCRIPTION	POI	DESIGNED	DRAWN	CHECKED	DATE
IN HOUSE REVISIONS		MORAHAN CODE:				

O1	AS BUILT	R1	M80000	M80000	P1000000	31 Jul 2027
O0	FIRST ISSUE	R1	M80000	M80000	P1000000	01 Aug 2027
Rev.	DESCRIPTION	POI	DESIGNED	DRAWN	CHECKED	APPROVED DATE

PROJECT: ILAM SRP/SSU PLANT

<p>CLIENT:</p>  <p><i>www.thecityofhouston.org</i></p>	<p>CONTRACTOR:</p> 	<p>VENDOR:</p>  <p>ABAN AIR COOLER</p>
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TITLE:		PROJECT: 1718	
<p style="text-align: center;">Louwer Drawing 30-AE-9004</p>			
DRAWING NO.:		VP-90-ME-9013-004-0	
PROJECT NO:	SCALE:	REV. NO.:	SHEET: 1 OF 3
30		00	SIZE: A3

1	RED=0.15	YELLOW=0.2	GREEN=0.3	CYAN=0.4	BLUE=0.5	MAGENTA=0.6	WHITE=0.7	8 TO 25C = 0.1
PEN widths(mm)								

REFERENCE DRAWING	
TITLE	DWG.NO
General Arrangement Drawing 30-AE-9004	VP-90-ME-9013-0018
Tube Bundle Detail Drawing 30-AE-9004	VP-90-ME-9013-0054
Side Frame Drawing 30-AE-9004	VP-90-ME-9013-0022
Steel Structure Drawing 30-AE-9004	VP-90-CV-9013-0008

