



**IRN No:**

IRN	-	D	O	R	C	-	C	S	A	F	-	3	3	4	3	-	5	6	9	9	-	1	
Type		Project				Contractor				Contract Reference				Seq. No									

**DATE:**

2	5	-	1	1	-	2	0	1	9	
Day		Month		Year						

### ITEMS DETAILS:

As per attached TPIA Inspection Release Note No.: IND-013937/MUM/CSA/KMG/19/02 dated 21st Nov 2019

# Purchase Requisition No.: A545-000-WD-PR-3343-5699 Rev-0

- 1) TPIA Inspection Certificate / Release Note No.: IND-013937/MUM/CSA/KMG/19/02 dated 21st Nov 2019.
- 2) This Inspection Release Note is issued on the basis of review of TPIA (Tuv-Sud) Inspection Certificate / Release Notes, as mentioned above and copy enclosed with this IRN.
- 3) Final document dossier shall be made in accordance with PR/Contract by Vendor & same shall be certified by TPIA (Tuv-Sud). Final document dossier shall be transported separately.
- 4) Proper seaworthy packing of items and spares (if any), secure transportation supporting arrangements shall be ensured by Vendor.

**RELEASE / ORDER STATUS:** ☒ **COMPLETE** ☐ **PARTIAL**

*The issue of this document does not relieve the contractor/vendor from its responsibility to employer /client to supply the item(s) concerned in full compliance with the requirements of its contract/specification*



South Asia

Choose certainty.  
Add value.

TÜV SÜDSouth Asia•Aerocity 2 nd floor •Andheri (East)•Mumbai 400 072

## INSPECTION RELEASE NOTE

IRN No.	IND-013937/MUM/CSA/KMG/19/02	Date: 21.11.2019			
<b>1.0. TÜV SÜD CLIENT DATA</b>					
Customer Name	M/s Dangote Petroleum Refinery & Petrochemicals Free Zone Enterprises.				
Contract No. (Client to TÜV SÜD)	IND-013937				
Project Name / No.	Dangote Refinery & Petrochemicals Project, Nigeria.				
Contact Person of Customer	Mr. Neeraj Pahuja				
TÜV SÜD Coordinator	Mr. Ravindran Ajish				
<b>2.0. SUPPLIER/ SUBSUPPLIER DETAIL</b>					
Name	M/s.CSA Fittings				
Location	At M/s.CSA Fittings ,L-92,Taloja , Dist Raigad, Maharashtra				
P.R.No. & Date	PR-0660-3343-5699-CSA_Fittings SS_Bulk_Offshore dtd 19.08.19				
P.R. Status	<input type="checkbox"/> Part <input checked="" type="checkbox"/> Full				
Date of visits	18.11.2019,19.11.2019,20.11.2019 & 21.11.2019				
<b>3.0. REFERENCE DOCUMENT (Drawing/ QAP / Specification)</b>					
No.	Description	Doc. No.	Rev.	App. Code	Approved By
1.	ITP	CSAF/DANGOTE/595 R1 Dated 25.09.2019	1	---	M/s DORC & TUV-SUD
2.	PR	PR-0660-3343-5699-CSA_Fittings SS_Bulk_Offshore dtd 19.08.19	-	--	M/s DORC
<b>4.0. ITEMS INSPECTED</b>					
<u>Refer Detail of Inspection</u>					

Page 01 of 02




Registered Office:  
TÜV SÜD South Asia Pvt. Ltd.  
NIBR Corporate Park 1 Aerocity,  
2nd floor, S.No. 2010 - 2016,  
Andherikula road  
Safedpull, Andheri (East),  
Mumbai – 400072, India.

Corporate Office:  
TÜV SÜD South Asia Pvt. Ltd.  
Gulmohar Plaza, Plot No. 1A,  
4 th Floor, Gulmohar Plaza,  
ITI Road, Aundh,  
Pune – 411007, India.

Email: [info@tuv-sud.in](mailto:info@tuv-sud.in) Doc. No: TSSA-IS-IN-FR\_05 Rev 3 Dated. 15-07-2019  
[www.tuv-sud.in](http://www.tuv-sud.in)  
TUV®

**(A) Detail of Inspection : Refer Annexure-A**

**Detail of Inspection Activity:-** Following Inspection activities are carried out as per PR & Inspection Test Plan.

1. ITPSr. No.2.2 & 2.4: Lab test carried out in NABL approved lab & under witnessed of TUV sud Inspector found satisfactory.
2. ITP Sr. No.3.1 : Random witnessed of Visual inspection carried out (10%) for Surface condition, Marking & workmanship and found satisfactory.
3. ITP Sr. No.3.1 : Random witnessed of Dimensional inspection carried(10%) out for fittings, Dimension found within limit& found satisfactory.
4. ITP Sr. No.3.1 : Random witnessed of PMI carried for SS Fittings (10%) out for fittings & found satisfactory.
5. ITP Sr. No.3.1 : Random witnessed of DP Test carried out (10%) for fittings & found satisfactory
6. ITP Sr. No.3.1 : Random witnessed of Colour Coding carried out (10%) for fittings & found satisfactory
7. ITP Sr. No.3.2 : Witnessed fittings are stamped single as "  " TUV sud for identification.


**(B) Document Reviewed :-**

8. ITP Sr.1:Reviewed of LPT& HT procedure for fittings and found satisfactory.
9. ITPSr.1.1:Reviewed of raw material TC for chemical & mechanical properties and found satisfactory.
10. ITPSr. No.2.1:Reviewed of Heat treatment chart for applicable fittings& found in order.
11. ITPSr.2.3:Reviewed Product analysis report and found satisfactory
12. Reviewed of Calibration certificate for Vernier ,DFT meter & PMI found in order
13. Manufacturer test certificate (1400)reviewed - found to meet the specification requirements

**(C) List of Calibration instruments:-**

Instrument	Range	Due date
Vernier Calliper	0 – 200 MM	16/09/2020
PMI	-	20/12/2020

(D) **Enclosure** : 1.Dimnsin Report 2. DP Report 3. PMI Report 4. Colour coding Report

**Detail of Identification:** Witnessed fittings are stamped single as "  " TUV sud for identification " .

☐ Rubber Stamp :-

☒ Die Stamp :-

**Inspection Status :-** ☒ Accept ☐ Dispatch

**Recommended Action :-** (1) Vendor shall take utmost care while handling the product after completion of inspection

**Distribution :** ☐ Client ☐ Supplier/Sub supplier ☐ Contracting office ☐ Performing office

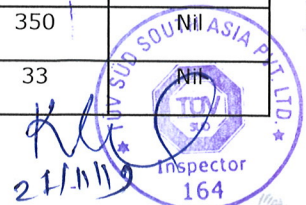
**Inspection Engineer Name Sign & Stamp :-** KIRAN GUNJAL

  
21/11/19\* 



**ANNEXURE-A SS FITTINGS**

P.O. SR. NO	CODE	ITEM DESCRIPTION	LOT NO	AS PER P.O. QTY	Accepted/ Released qty	Balance Qty
1	PN335E7Z0041 40100	1/2"X100MM LG. SCH-80S TBE SMLS NIPPLE A312 TP304 B36.19	SL/231	1617	1617	Nil
2	PN335E7Z0051 40100	3/4"X100MM LG. SCH-80S TBE SMLS NIPPLE A182 F304 B36.19	SL/235	12	12	Nil
3	PN335G7Z0041 40100	1/2"X100MM LG. SCH-80S TOE SMLS NIPPLE A312 TP304 B36.19	SL/231	1484	1484	Nil
4	PN335G7Z0061 40100	1"X100MM LG. SCH-80S TOE SMLS NIPPLE A312 TP304 B36.19	SL/232	1153	1153	Nil
5	PN335G7Z4041 40100	1/2"X100MM LG. SCH-80S TOE SMLS NIPPLE A312 TP304 B36.19 CRYO	SL/231	67	67	Nil
6	PN335G7Z4051 40100	3/4"X100MM LG. SCH-80S TOE SMLS NIPPLE A182 F304 B36.19 CRYO	SL/235	12	12	Nil
7	PN337E7Z0041 40100	1/2"X100MM LG. SCH-80S TBE SMLS NIPPLE A312 TP304L B36.19	SL/231	13	13	Nil
8	PN337E7Z004S 30100	1/2"X100MM LG. SCH-4.78 MM THK. TBE SMLS NIPPLE A182 F304L B36.19	SL/235	6	6	Nil
9	PN337E7Z0051 40100	3/4"X100MM LG. SCH-80S TBE SMLS NIPPLE A182 F304L B36.19	SL/235	12	12	Nil
10	PN337G7Z0041 40100	1/2"X100MM LG. SCH-80S TOE SMLS NIPPLE A312 TP304L B36.19	SL/231	378	378	Nil
11	PN337G7Z0051 40100	3/4"X100MM LG. SCH-80S TOE SMLS NIPPLE A182 F304L B36.19	SL/235	28	28	Nil
12	PN337G7Z4041 40100	1/2"X100MM LG. SCH-80S TOE SMLS NIPPLE A312 TP304L B36.19 CRYO	SL/231	45	45	Nil
13	PN337G7Z7041 40100	1/2"X100MM LG. SCH-80S TOE SMLS NIPPLE A312 TP304L B36.19 H2	SL/231	51	51	Nil
14	PN340E7Z0041 40100	1/2"X100MM LG. SCH-80S TBE SMLS NIPPLE A312 TP316L B36.19	SSL/233	981	981	Nil
15	PN340E7Z0051 40100	3/4"X100MM LG. SCH-80S TBE SMLS NIPPLE A182 F316L B36.19	SSL/236	35	35	Nil
16	PN340G7Z0041 40100	1/2"X100MM LG. SCH-80S TOE SMLS NIPPLE A312 TP316L B36.19	SSL/233	204	204	Nil
17	PN3K2E7Z005S 40100	3/4"X100MM LG. SCH-5.56MM THK. TBE SMLS NIPPLE A182 F317L B36.19	239	12	12	Nil
18	PN3K2G7Z0041 40100	1/2"X100MM LG. SCH-80S TOE SMLS NIPPLE A182 F317L B36.19	239	27	27	Nil
19	PN3K2G7Z004 S30100	1/2"X100MM LG. SCH-4.78 MM THK. TOE SMLS NIPPLE A182 F317L B36.19	239	33	33	Nil
20	PN341G7Z005S 20100	3/4"X100MM LG. SCH-5.6 MM THK. TOE SMLS NIPPLE A182 F321 B36.19	SSS/234	5	5	Nil
21	WA642D2Z004 ZZZZZZ	1/2" 3000# SW 90DEG.ELBOW A182 F304 B16.11	SL/235	78	78	Nil
22	WA642D2Z005 ZZZZZZ	3/4" 3000# SW 90DEG.ELBOW A182 F304 B16.11	SL/235	12	12	Nil
23	WA642D2Z006 ZZZZZZ	1" 3000# SW 90DEG.ELBOW A182 F304 B16.11	SL/235	2181	2181	Nil
24	WA642D2Z008 ZZZZZZ	1-1/2" 3000# SW 90DEG.ELBOW A182 F304 B16.11	SL/237	69	69	Nil
25	WA642D2Z405 ZZZZZZ	3/4" 3000# SW 90DEG.ELBOW A182 F304 B16.11 CRYO	SL/235	35	35	Nil
26	WA642D2Z406 ZZZZZZ	1" 3000# SW 90DEG.ELBOW A182 F304 B16.11 CRYO	SL/235	264	264	Nil
27	WA642D2Z408 ZZZZZZ	1-1/2" 3000# SW 90DEG.ELBOW A182 F304 B16.11 CRYO	SL/237	26	26	Nil
28	WA644D2Z004 ZZZZZZ	1/2" 3000# SW 90DEG.ELBOW A182 F304L B16.11	SL/235	327	327	Nil
29	WA644D2Z005 ZZZZZZ	3/4" 3000# SW 90DEG.ELBOW A182 F304L B16.11	SL/235	143	143	Nil
30	WA644D2Z006 ZZZZZZ	1" 3000# SW 90DEG.ELBOW A182 F304L B16.11	SL/235	350	350	Nil
31	WA644D2Z704 ZZZZZZ	1/2" 3000# SW 90DEG.ELBOW A182 F304L B16.11 CRYO	SL/235	33	33	Nil





32	WA644D2Z706 ZZZZZZ	1/2" 3000# SW 90DEG.ELBOW A182 F304L B16.11 H2	SL/235	67	67	Nil
33	WA644D2Z706 ZZZZZZ	1" 3000# SW 90DEG.ELBOW A182 F304L B16.11 H2	SL/235	5	5	Nil
34	WA645D2Z004 ZZZZZZ	1/2" 3000# SW 90DEG.ELBOW A182 F316 B16.11	SSL/236	38	38	Nil
35	WA645D2Z005 ZZZZZZ	3/4" 3000# SW 90DEG.ELBOW A182 F316 B16.11	SSL/236	30	30	Nil
36	WA647D2Z004 ZZZZZZ	1/2" 3000# SW 90DEG.ELBOW A182 F316L B16.11	SSL/236	192	192	Nil
37	WA647D2Z005 ZZZZZZ	3/4" 3000# SW 90DEG.ELBOW A182 F316L B16.11	SSL/236	579	579	Nil
38	WA647D2Z006 ZZZZZZ	1" 3000# SW 90DEG.ELBOW A182 F316L B16.11	SSL/236	268	268	Nil
39	WA647D2Z008 ZZZZZZ	1-1/2" 3000# SW 90DEG.ELBOW A182 F316L B16.11	SSL/238	108	108	Nil
40	WA6P6D3Z004 ZZZZZZ	1/2" 6000# SW 90DEG.ELBOW A182 F317L B16.11	239	25	25	Nil
41	WA6P6D3Z005 ZZZZZZ	3/4" 6000# SW 90DEG.ELBOW A182 F317L B16.11	239	246	246	Nil
42	WA6P6D3Z006 ZZZZZZ	1" 6000# SW 90DEG.ELBOW A182 F317L B16.11	239	9	9	Nil
43	WA6P6D3Z008 ZZZZZZ	1-1/2" 6000# SW 90DEG.ELBOW A182 F317L B16.11	239	67	67	Nil
44	WA648D2Z004 ZZZZZZ	1/2" 3000# SW 90DEG.ELBOW A182 F321 B16.11	SSS/234	28	28	Nil
45	WA648D2Z005 ZZZZZZ	3/4" 3000# SW 90DEG.ELBOW A182 F321 B16.11	SSS/234	19	19	Nil
46	WA648D2Z006 ZZZZZZ	1" 3000# SW 90DEG.ELBOW A182 F321 B16.11	SSS/234	3	3	Nil
47	WAG934Z1004 14ZZZZ	1/2" SCH-80S BW 90DEG.LR ELBOW A403 WP304L-S B16.9	SL/240	114	114	Nil
48	WAG934Z1004 S3ZZZZ	1/2" SCH-4.78MM THK. BW 90DEG.LR ELBOW A403 WP304L-S B16.9	SL/240	9	9	Nil
49	WAG934Z1005 14ZZZZ	3/4" SCH-80S BW 90DEG.LR ELBOW A403 WP304L-S B16.9	SL/240	18	18	Nil
50	WAG934Z1006 14ZZZZ	1" SCH-80S BW 90DEG.LR ELBOW A403 WP304L-S B16.9	SL/240	139	139	Nil
51	WAG934Z1006 55ZZZZ	1" SCH-6.35MM THK. BW 90DEG.LR ELBOW A403 WP304L-S B16.9	SL/240	11	11	Nil
52	WAG934Z1008 14ZZZZ	1-1/2" SCH-80S BW 90DEG.LR ELBOW A403 WP304L-S B16.9	SL/240	9	9	Nil
53	WAG934Z1008 S6ZZZZ	1-1/2" SCH-7.14MM THK. BW 90DEG.LR ELBOW A403 WP304L-S B16.9	SL/240	5	5	Nil
54	WAG964Z1004 14ZZZZ	1/2" SCH-80S BW 90DEG.LR ELBOW A403 WP316-S B16.9	SSL/241	30	30	Nil
55	WAG964Z1005 14ZZZZ	3/4" SCH-80S BW 90DEG.LR ELBOW A403 WP316-S B16.9	SSL/241	135	135	Nil
56	WAG964Z1006 14ZZZZ	1" SCH-80S BW 90DEG.LR ELBOW A403 WP316-S B16.9	SSL/241	18	18	Nil
57	WAG964Z1008 14ZZZZ	1-1/2" SCH-80S BW 90DEG.LR ELBOW A403 WP316-S B16.9	SSL/241	190	190	Nil
58	WAGA54Z1005 52ZZZZ	3/4" SCH-5.6MM THK. BW 90DEG.LR ELBOW A403 WP321-S B16.9	SSS/242	9	9	Nil
59	WAGA54Z1006 55ZZZZ	1" SCH-6.35MM THK. BW 90DEG.LR ELBOW A403 WP321-S B16.9	SSS/242	3	3	Nil
60	WB642D2Z005 ZZZZZZ	3/4" 3000# SW 45DEG. ELBOW A182 F304 B16.11	SL/235	5	5	Nil
61	WB642D2Z006 ZZZZZZ	1" 3000# SW 45DEG.ELBOW A182 F304 B16.11	SL/235	9	9	Nil
62	WB642D2Z008 ZZZZZZ	1-1/2" 3000# SW 45DEG.ELBOW A182 F304 B16.11	SL/237	8	8	Nil
63	WB642D2Z405 ZZZZZZ	3/4" 3000# SW 45DEG.ELBOW A182 F304 B16.11 CRYO	SL/235	5	5	Nil
64	WB642D2Z406 ZZZZZZ	1" 3000# SW 45DEG.ELBOW A182 F304 B16.11 CRYO	SL/235	11	11	Nil




65	WB642D2Z408 ZZZZZZ	1-1/2" 3000# SW 45DEG.ELBOW A182 F304 B16.11 CRYO	SL/237	3	3	Nil
66	WB644D2Z004 ZZZZZZ	1/2" 3000# SW 45DEG.ELBOW A182 F304L B16.11	SL/235	26	26	Nil
67	WB644D2Z005 ZZZZZZ	3/4" 3000# SW 45DEG.ELBOW A182 F304L B16.11	SL/235	15	15	Nil
68	WB644D2Z006 ZZZZZZ	1" 3000# SW 45DEG.ELBOW A182 F304L B16.11	SL/235	40	40	Nil
69	WB645D2Z004 ZZZZZZ	1/2" 3000# SW 45DEG.ELBOW A182 F316 B16.11	SSL/236	3	3	Nil
70	WB645D2Z005 ZZZZZZ	3/4" 3000# SW 45DEG.ELBOW A182 F316 B16.11	SSL/236	5	5	Nil
71	WB645D2Z006 ZZZZZZ	1" 3000# SW 45DEG.ELBOW A182 F316 B16.11	SSL/236	5	5	Nil
72	WB645D2Z008 ZZZZZZ	1-1/2" 3000# SW 45DEG.ELBOW A182 F316 B16.11	SSL/238	5	5	Nil
73	WB647D2Z004 ZZZZZZ	1/2" 3000# SW 45DEG.ELBOW A182 F316L B16.11	SSL/236	3	3	Nil
74	WB647D2Z005 ZZZZZZ	3/4" 3000# SW 45DEG.ELBOW A182 F316L B16.11	SSL/236	28	28	Nil
75	WB647D2Z006 ZZZZZZ	1" 3000# SW 45DEG.ELBOW A182 F316L B16.11	SSL/236	46	46	Nil
76	WB647D2Z008 ZZZZZZ	1-1/2" 3000# SW 45DEG.ELBOW A182 F316L B16.11	SSL/238	13	13	Nil
77	WB6P6D3Z005 ZZZZZZ	3/4" 6000# SW 45DEG.ELBOW A182 F317L B16.11	239	13	13	Nil
78	WB6P6D3Z008 ZZZZZZ	1-1/2" 6000# SW 45DEG.ELBOW A182 F317L B16.11	239	24	24	Nil
79	WBG934Z1004 14ZZZZ	1/2" SCH-80S BW 45DEG.LR ELBOW A403 WP304L-S B16.9	SL/240	11	11	Nil
80	WBG934Z1006 14ZZZZ	1" SCH-80S BW 45DEG.LR ELBOW A403 WP304L-S B16.9	SL/240	15	15	Nil
81	WBG934Z1008 14ZZZZ	1-1/2" SCH-80S BW 45DEG.LR ELBOW A403 WP304L-S B16.9	SL/240	5	5	Nil
82	WE642D2Z004 ZZZZZZ	1/2" 3000# SW EQUAL TEE A182 F304 B16.11	SL/235	274	274	Nil
83	WE642D2Z005 ZZZZZZ	3/4" 3000# SW EQUAL TEE A182 F304 B16.11	SL/235	29	29	Nil
84	WE642D2Z006 ZZZZZZ	1" 3000# SW EQUAL TEE A182 F304 B16.11	SL/235	573	573	Nil
85	WE642D2Z008 ZZZZZZ	1-1/2" 3000# SW EQUAL TEE A182 F304 B16.11	SL/237	9	9	Nil
86	WE642D2Z404 ZZZZZZ	1/2" 3000# SW EQUAL TEE A182 F304 B16.11 CRYO	SL/235	36	36	Nil
87	WE642D2Z405 ZZZZZZ	3/4" 3000# SW EQUAL TEE A182 F304 B16.11 CRYO	SL/235	13	13	Nil
88	WE642D2Z406 ZZZZZZ	1" 3000# SW EQUAL TEE A182 F304 B16.11 CRYO	SL/235	8	8	Nil
89	WE64482Z404 ZZZZZZ	1/2" 3000# SCRF EQUAL TEE A182 F304L B16.11 CRYO	SL/235	6	6	Nil
90	WE644D2Z004 ZZZZZZ	1/2" 3000# SW EQUAL TEE A182 F304L B16.11	SL/235	219	219	Nil
91	WE644D2Z005 ZZZZZZ	3/4" 3000# SW EQUAL TEE A182 F304L B16.11	SL/235	47	47	Nil
92	WE644D2Z006 ZZZZZZ	1" 3000# SW EQUAL TEE A182 F304L B16.11	SL/235	94	94	Nil
93	WE644D2Z404 ZZZZZZ	1/2" 3000# SW EQUAL TEE A182 F304L B16.11 CRYO	SL/235	8	8	Nil
94	WE644D2Z704 ZZZZZZ	1/2" 3000# SW EQUAL TEE A182 F304L B16.11 H2	SL/235	64	64	Nil
95	WE64582Z004 ZZZZZZ	1/2" 3000# SCRF EQUAL TEE A182 F316 B16.11	SSL/236	14	14	Nil
96	WE645D2Z004 ZZZZZZ	1/2" 3000# SW EQUAL TEE A182 F316 B16.11	SSL/236	48	48	Nil
97	WE645D2Z005 ZZZZZZ	3/4" 3000# SW EQUAL TEE A182 F316 B16.11	SSL/236	16	16	Nil
98	WE645D2Z006 ZZZZZZ	1" 3000# SW EQUAL TEE A182 F316 B16.11	SSL/236	3	3	Nil

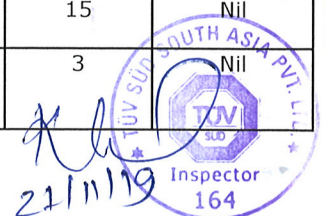
21/11/19

Inspector  
164

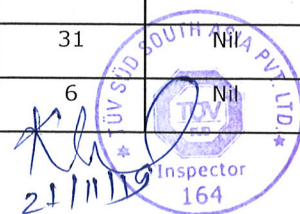
SOUTH ASIA PVT. LTD.



99	WE64782Z004 ZZZZZZ	1/2" 3000# SCRF EQUAL TEE A182 F316L B16.11	SSL/236	312	312	Nil
100	WE647D2Z005 ZZZZZZ	3/4" 3000# SW EQUAL TEE A182 F316L B16.11	SSL/236	365	365	Nil
101	WE647D2Z006 ZZZZZZ	1" 3000# SW EQUAL TEE A182 F316L B16.11	SSL/236	41	41	Nil
102	WE647D2Z008 ZZZZZZ	1-1/2" 3000# SW EQUAL TEE A182 F316L B16.11	SSL/238	14	14	Nil
103	WE6P6D3Z004 ZZZZZZ	1/2" 6000# SW EQUAL TEE A182 F317L B16.11	239	28	28	Nil
104	WE6P6D3Z005 ZZZZZZ	3/4" 6000# SW EQUAL TEE A182 F317L B16.11	239	93	93	Nil
105	WE6P6D3Z006 ZZZZZZ	1" 6000# SW EQUAL TEE A182 F317L B16.11	239	1	1	Nil
106	WE6P6D3Z008 ZZZZZZ	1-1/2" 6000# SW EQUAL TEE A182 F317L B16.11	239	22	22	Nil
107	WE648D2Z004 ZZZZZZ	1/2" 3000# SW EQUAL TEE A182 F321 B16.11	SSS/234	17	17	Nil
108	WE648D2Z005 ZZZZZZ	3/4" 3000# SW EQUAL TEE A182 F321 B16.11	SSS/234	3	3	Nil
109	WE648D2Z006 ZZZZZZ	1" 3000# SW EQUAL TEE A182 F321 B16.11	SSS/234	5	5	Nil
110	WEG934Z006 14ZZZZ	1" SCH-80S BW EQUAL TEE A403 WP304L-S B16.9	SL/240	25	25	Nil
111	WEG934Z008 14ZZZZ	1-1/2" SCH-80S BW EQUAL TEE A403 WP304L-S B16.9	SL/240	3	3	Nil
112	WEG964Z004 14ZZZZ	1/2" SCH-80S BW EQUAL TEE A403 WP316-S B16.9	SSL/241	70	70	Nil
113	WEG964Z005 14ZZZZ	3/4" SCH-80S BW EQUAL TEE A403 WP316-S B16.9	SSL/241	86	86	Nil
114	WEG964Z006 14ZZZZ	1" SCH-80S BW EQUAL TEE A403 WP316-S B16.9	SSL/241	10	10	Nil
115	WEG964Z008 14ZZZZ	1-1/2" SCH-80S BW EQUAL TEE A403 WP316-S B16.9	SSL/241	3	3	Nil
116	WR64282Z006 ZZ04ZZ	1"X1/2" 3000# SCRF REDUCING TEE A182 F304 B16.11	SL/235	182	182	Nil
117	WR642D2Z006 ZZ04ZZ	1"X1/2" 3000# SW REDUCING TEE A182 F304 B16.11	SL/235	914	914	Nil
118	WR642D2Z008 ZZ05ZZ	1-1/2"X3/4" 3000# SW REDUCING TEE A182 F304 B16.11	SL/237	3	3	Nil
119	WR642D2Z008 ZZ06ZZ	1-1/2"X1" 3000# SW REDUCING TEE A182 F304 B16.11	SL/237	1	1	Nil
120	WR644D2Z005 ZZ04ZZ	3/4"X1/2" 3000# SW REDUCING TEE A182 F304L B16.11	SL/235	11	11	Nil
121	WR644D2Z006 ZZ04ZZ	1"X1/2" 3000# SW REDUCING TEE A182 F304L B16.11	SL/235	37	37	Nil
122	WR644D2Z006 ZZ05ZZ	1"X3/4" 3000# SW REDUCING TEE A182 F304L B16.11	SL/235	29	29	Nil
123	WR644D2Z008 ZZ05ZZ	1-1/2"X3/4" 3000# SW REDUCING TEE A182 F304L B16.11	SL/237	3	3	Nil
124	WR645D2Z005 ZZ04ZZ	3/4"X1/2" 3000# SW REDUCING TEE A182 F316 B16.11	SSL/236	3	3	Nil
125	WR647D2Z006 ZZ05ZZ	1"X3/4" 3000# SW REDUCING TEE A182 F316L B16.11	SSL/236	14	14	Nil
126	WR647D2Z008 ZZ04ZZ	1-1/2"X1/2" 3000# SW REDUCING TEE A182 F316L B16.11	SSL/238	66	66	Nil
127	WR647D2Z008 ZZ06ZZ	1-1/2"X1" 3000# SW REDUCING TEE A182 F316L B16.11	SSL/238	17	17	Nil
128	WR6P6D3Z006 ZZ05ZZ	1"X3/4" 6000# SW REDUCING TEE A182 F317L B16.11	239	3	3	Nil
129	WR6P6D3Z008 ZZ04ZZ	1-1/2"X1/2" 6000# SW REDUCING TEE A182 F317L B16.11	239	7	7	Nil
130	WRG934Z006 140514	1"X3/4" SCH-80S BW REDUCING TEE A403 WP304L-S B16.9	SL/240	15	15	Nil
131	WRG934Z008 S605S4	1-1/2"X3/4" SCH-7.14 MM THK./5.56MM THK. BW REDUCING TEE A403 WP304L-S B16.9	SL/240	3	3	Nil

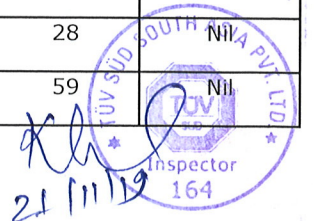


132	WNH426ZZ005 140414	3/4"X1/2" SCH-80S PBE CONC.SWAGE A182 F304 BS-3799	SL/235	36	36	Nil
133	WNH426ZZ006 140514	1"X3/4" SCH-80S PBE CONC.SWAGE A182 F304 BS-3799	SL/235	3	3	Nil
134	WNH426ZZ008 130613	1-1/2"X1" SCH-40S PBE CONC.SWAGE A182 F304 BS-3799	SL/235	3	3	Nil
135	WNH426ZZ008 140614	1-1/2"X1" SCH-80S PBE CONC.SWAGE A182 F304 BS-3799	SL/235	7	7	Nil
136	WNH426ZZ009 130414	2"X1/2" SCH-40S/80S PBE CONC.SWAGE A182 F304 BS-3799	SL/237	2	2	Nil
137	WNH426ZZ009 130514	2"X3/4" SCH-40S/80S PBE CONC.SWAGE A182 F304 BS-3799	SL/237	2	2	Nil
138	WNH426ZZ009 130614	2"X1" SCH-40S/80S PBE CONC.SWAGE A182 F304 BS-3799	SL/237	1	1	Nil
139	WNH426ZZ405 140414	3/4"X1/2" SCH-80S PBE CONC.SWAGE A182 F304 BS-3799 CRYO	SL/235	12	12	Nil
140	WNH426ZZ409 130614	2"X1" SCH-40S/80S PBE CONC.SWAGE A182 F304 BS-3799 CRYO	SL/237	3	3	Nil
141	WNH426ZZ411 130614	3"X1" SCH-40S/80S PBE CONC.SWAGE A182 F304 BS-3799 CRYO	SL/237	3	3	Nil
142	WNH446ZZ005 140414	3/4"X1/2" SCH-80S PBE CONC.SWAGE A182 F304L BS-3799	SL/235	77	77	Nil
143	WNH446ZZ006 140414	1"X1/2" SCH-80S PBE CONC.SWAGE A182 F304L BS-3799	SL/235	18	18	Nil
144	WNH446ZZ009 130414	2"X1/2" SCH-40S/80S PBE CONC.SWAGE A182 F304L BS-3799	SL/237	2	2	Nil
145	WNH446ZZ009 130514	2"X3/4" SCH-40S/80S PBE CONC.SWAGE A182 F304L BS-3799	SL/237	7	7	Nil
146	WNH446ZZ011 120614	3"X1" SCH-10S/80S PBE CONC.SWAGE A182 F304L BS-3799	SL/237	6	6	Nil
147	WNH446ZZ405 140414	3/4"X1/2" SCH-80S PBE CONC.SWAGE A182 F304L BS-3799 CRYO	SL/235	6	6	Nil
148	WNH446ZZ705 140414	3/4"X1/2" SCH-80S PBE CONC.SWAGE A182 F304L BS-3799 H2	SL/235	24	24	Nil
149	WNH446ZZ709 130514	2"X3/4" SCH-40S/80S PBE CONC.SWAGE A182 F304L BS-3799 H2	SL/237	2	2	Nil
150	WNH44FZZ005 140414	3/4"X1/2" SCH-80S TLE CONC.SWAGE A182 F304L BS-3799	SL/235	67	67	Nil
151	WNH44FZZ405 140414	3/4"X1/2" SCH-80S TLE CONC.SWAGE A182 F304L BS-3799 CRYO	SL/235	9	9	Nil
152	WNH44HZZ006 5504S3	1"X1/2" SCH-6.35MM THK./4.78MM THK. TSE CONC.SWAGE A182 F304L BS-3799	SL/235	29	29	Nil
153	WNH456ZZ005 140414	3/4"X1/2" SCH-80S PBE CONC.SWAGE A182 F316 BS-3799	SSL/236	103	103	Nil
154	WNH456ZZ006 140414	1"X1/2" SCH-80S PBE CONC.SWAGE A182 F316 BS-3799	SSL/236	3	3	Nil
155	WNH456ZZ008 140414	1-1/2"X1/2" SCH-80S PBE CONC.SWAGE A182 F316 BS-3799	SSL/236	3	3	Nil
156	WNH456ZZ009 130514	2"X3/4" SCH-40S/80S PBE CONC.SWAGE A182 F316 BS-3799	SSL/238	1	1	Nil
157	WNH45FZZ005 140414	3/4"X1/2" SCH-80S TLE CONC.SWAGE A182 F316 BS-3799	SSL/236	98	98	Nil
158	WNH45HZZ005 140414	3/4"X1/2" SCH-80S TSE CONC.SWAGE A182 F316 BS-3799	SSL/236	48	48	Nil
159	WNH476ZZ005 140414	3/4"X1/2" SCH-80S PBE CONC.SWAGE A182 F316L BS-3799	SSL/236	62	62	Nil
160	WNH476ZZ009 130414	2"X1/2" SCH-40S/80S PBE CONC.SWAGE A182 F316L BS-3799	SSL/238	31	31	Nil
161	WNH476ZZ009 130614	2"X1" SCH-40S/80S PBE CONC.SWAGE A182 F316L BS-3799	SSL/238	6	6	Nil

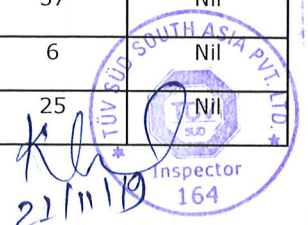




162	WNH476ZZ011 130814	3"X1-1/2" SCH-40S/80S PBE CONC.SWAGE A182 F316L BS-3799	SSL/238	2	2	Nil
163	WNH47EZZ005 140414	3/4"X1/2" SCH-80S TBE CONC.SWAGE A182 F316L BS-3799	SSL/236	3	3	Nil
164	WNH47HZZ005 140414	3/4"X1/2" SCH-80S TSE CONC.SWAGE A182 F316L BS-3799	SSL/236	39	39	Nil
165	WNHP66ZZ005 140414	3/4"X1/2" SCH-80S PBE CONC.SWAGE A182 F317L BS-3799	239	12	12	Nil
166	WNHP66ZZ006 140414	1"X1/2" SCH-80S PBE CONC.SWAGE A182 F317L BS-3799	239	3	3	Nil
167	WPH426ZZ008 130514	1-1/2"X3/4" SCH-40S/80S PBE ECC.SWAGE A182 F304 BS-3799	SL/235	4	4	Nil
168	WPH426ZZ009 130414	2"X1/2" SCH-40S/80S PBE ECC.SWAGE A182 F304 BS-3799	SL/237	2	2	Nil
169	WPH426ZZ009 130614	2"X1" SCH-40S/80S PBE ECC.SWAGE A182 F304 BS-3799	SL/237	9	9	Nil
170	WPH426ZZ009 130813	2"X1-1/2" SCH-40S PBE ECC.SWAGE A182 F304 BS-3799	SL/237	5	5	Nil
171	WPH426ZZ011 120614	3"X1" SCH-10S/80S PBE ECC.SWAGE A182 F304 BS-3799	SL/237	2	2	Nil
172	WPH426ZZ409 130614	2"X1" SCH-40S/80S PBE ECC.SWAGE A182 F304 BS-3799 CRYO	SL/237	10	10	Nil
173	WPH426ZZ411 130614	3"X1" SCH-40S/80S PBE ECC.SWAGE A182 F304 BS-3799 CRYO	SL/237	1	1	Nil
174	WPH446ZZ005 140414	3/4"X1/2" SCH-80S PBE ECC.SWAGE A182 F304L BS-3799	SL/235	22	22	Nil
175	WPH446ZZ006 140414	1"X1/2" SCH-80S PBE ECC.SWAGE A182 F304L BS-3799	SL/235	7	7	Nil
176	WPH446ZZ006 140514	1"X3/4" SCH-80S PBE ECC.SWAGE A182 F304L BS-3799	SL/235	3	3	Nil
177	WPH456ZZ005 140414	3/4"X1/2" SCH-80S PBE ECC.SWAGE A182 F316 BS-3799	SSL/236	14	14	Nil
178	WPH456ZZ006 140514	1"X3/4" SCH-80S PBE ECC.SWAGE A182 F316 BS-3799	SSL/236	4	4	Nil
179	WPH456ZZ008 140414	1-1/2"X1/2" SCH-80S PBE ECC.SWAGE A182 F316 BS-3799	SSL/236	3	3	Nil
180	WPH456ZZ009 130414	2"X1/2" SCH-40S/80S PBE ECC.SWAGE A182 F316 BS-3799	SSL/238	2	2	Nil
181	WPH476ZZ006 140514	1"X3/4" SCH-80S PBE ECC.SWAGE A182 F316L BS-3799	SSL/236	3	3	Nil
182	WPH476ZZ009 130614	2"X1" SCH-40S/80S PBE ECC.SWAGE A182 F316L BS-3799	SSL/238	1	1	Nil
183	WPH666ZZ006 5505S4	1"X3/4"X6.35MM THK/5.56MM THK PBE ECC.SWAGE A182 F317L BS-3799	239	3	3	Nil
184	WPH486ZZ009 130614	2"X1" SCH-80S PBE ECC.SWAGE A182 F321 BS-3799	SSS/234	2	2	Nil
185	WF64282Z004 ZZZZZZ	1/2" 3000# SCRF CAP A182 F304 B16.11	SL/235	1163	1163	Nil
186	WF64282Z006 ZZZZZZ	1" 3000# SCRF CAP A182 F304 B16.11	SL/235	1174	1174	Nil
187	WF64282Z404 ZZZZZZ	1/2" 3000# SCRF CAP A182 F304 B16.11 CRYO	SL/235	67	67	Nil
188	WF64482Z004 ZZZZZZ	1/2" 3000# SCRF CAP A182 F304L B16.11	SL/235	183	183	Nil
189	WF64482Z404 ZZZZZZ	1/2" 3000# SCRF CAP A182 F304L B16.11 CRYO	SL/235	19	19	Nil
190	WF64582Z004 ZZZZZZ	1/2" 3000# SCRF CAP A182 F316 B16.11	SSL/236	198	198	Nil
191	WF64782Z004 ZZZZZZ	1/2" 3000# SCRF CAP A182 F316L B16.11	SSL/236	645	645	Nil
192	WF6P682Z004 ZZZZZZ	1/2" 3000# SCRF CAP A182 F317L B16.11	239	10	10	Nil
193	WF6P682Z005 ZZZZZZ	3/4" 3000# SCRF CAP A182 F317L B16.11	239	28	28	Nil
194	WFG934ZZ004 14ZZZZ	1/2" SCH-80S BW CAP A403 WP304L-S B16.9	SL/240	59	59	Nil



195	WH64392Z005 ZZZZZZ	3/4"3000# SCRM PLUG A182 F304H B16.11	SH/230	54	54	Nil
196	WJ642D2Z005 ZZZZZZ	3/4" 3000# SW FULL COUPLING A182 F304 B16.11	SL/235	15	15	Nil
197	WJ642D2Z006 ZZZZZZ	1"3000# SW FULL COUPLING A182 F304 B16.11	SL/235	1650	1650	Nil
198	WJ642D2Z008 ZZZZZZ	1-1/2"3000# SW FULL COUPLING A182 F304 B16.11	SL/237	2	2	Nil
199	WJ643D2Z005 ZZZZZZ	3/4" 3000# SW FULL COUPLING A182 F304H B16.11	SH/230	1	1	Nil
200	WJ64482Z004Z ZZZZZZ	1/2" 3000# SCRF FULL COUPLING A182 F304L B16.11	SL/235	17	17	Nil
201	WJ64482Z404Z ZZZZZZ	1/2" 3000# SCRF FULL COUPLING A182 F304L B16.11 CRYO	SL/235	4	4	Nil
202	WJ64482Z704Z ZZZZZZ	1/2" 3000# SCRF FULL COUPLING A182 F304L B16.11 H2	SL/235	20	20	Nil
203	WJ644D2Z004 ZZZZZZ	1/2" 3000# SW FULL COUPLING A182 F304L B16.11	SL/235	53	53	Nil
204	WJ644D2Z006 ZZZZZZ	1" 3000# SW FULL COUPLING A182 F304L B16.11	SL/235	4	4	Nil
205	WJ644D2Z404 ZZZZZZ	1/2" 3000# SW FULL COUPLING A182 F304L B16.11 CRYO	SL/235	6	6	Nil
206	WJ644D2Z704 ZZZZZZ	1/2" 3000# SW FULL COUPLING A182 F304L B16.11 H2	SL/235	41	41	Nil
207	WJ64582Z004Z ZZZZZZ	1/2" 3000# SCRF FULL COUPLING A182 F316 B16.11	SSL/236	30	30	Nil
208	WJ645D2Z004 ZZZZZZ	1/2" 3000# SW FULL COUPLING A182 F316 B16.11	SSL/236	31	31	Nil
209	WJ645D2Z005 ZZZZZZ	3/4"3000# SW FULL COUPLING A182 F316 B16.11	SSL/236	6	6	Nil
210	WJ645D2Z008 ZZZZZZ	1-1/2" 3000# SW FULL COUPLING A182 F316 B16.11	SSL/238	7	7	Nil
211	WJ64782Z004Z ZZZZZZ	1/2" 3000# SCRF FULL COUPLING A182 F316L B16.11	SSL/236	279	279	Nil
212	WJ647D2Z005 ZZZZZZ	3/4" 3000# SW FULL COUPLING A182 F316L B16.11	SSL/236	15	15	Nil
213	WJ647D2Z006 ZZZZZZ	1" 3000# SW FULL COUPLING A182 F316L B16.11	SSL/236	185	185	Nil
214	WJ647D2Z008 ZZZZZZ	1-1/2" 3000# SW FULL COUPLING A182 F316L B16.11	SSL/238	77	77	Nil
215	WJ6P682Z004Z ZZZZZZ	1/2" 3000# SCRF FULL COUPLING A182 F317L B16.11	239	19	19	Nil
216	WJ6P683Z004Z ZZZZZZ	1/2" 6000# SCRF FULL COUPLING A182 F317L B16.11	239	19	19	Nil
217	WJ6P6D3Z004 ZZZZZZ	1/2" 6000# SW FULL COUPLING A182 F317L B16.11	239	46	46	Nil
218	WJ6P6D3Z005 ZZZZZZ	3/4"6000# SW FULL COUPLING A182 F317L B16.11	239	33	33	Nil
219	WJ64882Z004Z ZZZZZZ	1/2" 3000# SCRF FULL COUPLING A182 F321 B16.11	SSS/234	4	4	Nil
220	WJ648D2Z004 ZZZZZZ	1/2" 3000# SW FULL COUPLING A182 F321 B16.11	SSS/234	7	7	Nil
221	WJ648D2Z006 ZZZZZZ	1" 3000# SW FULL COUPLING A182 F321 B16.11	SSS/234	3	3	Nil
222	WK642D2Z005 ZZZZZZ	3/4" 3000# SW HALF COUPLING A182 F304 B16.11	SL/235	91	91	Nil
223	WK642D2Z006 ZZZZZZ	1" 3000# SW HALF COUPLING A182 F304 B16.11	SL/235	61	61	Nil
224	WK642D2Z404 ZZZZZZ	1/2"3000# SW HALF COUPLING A182 F304 B16.11 CRYO	SL/235	57	57	Nil
225	WK642D2Z405 ZZZZZZ	3/4" 3000# SW HALF COUPLING A182 F304 B16.11 CRYO	SL/235	4	4	Nil
226	WK642D2Z406 ZZZZZZ	1" 3000# SW HALF COUPLING A182 F304 B16.11 CRYO	SL/235	57	57	Nil
227	WK642D2Z408 ZZZZZZ	1-1/2" 3000# SW HALF COUPLING A182 F304 B16.11 CRYO	SL/237	6	6	Nil
228	WK644D2Z004 ZZZZZZ	1/2" 3000# SW HALF COUPLING A182 F304L B16.11	SL/235	25	25	Nil





229	WK644D2Z005 ZZZZZZ	3/4" 3000# SW HALF COUPLING A182 F304L B16.11	SL/235	49	49	Nil
230	WK644D2Z006 ZZZZZZ	1" 3000# SW HALF COUPLING A182 F304L B16.11	SL/235	26	26	Nil
231	WK644D2Z404 ZZZZZZ	1/2" 3000# SW HALF COUPLING A182 F304L B16.11	SL/235	11	11	Nil
232	WK644D2Z405 ZZZZZZ	3/4" 3000# SW HALF COUPLING A182 F304L B16.11 CRYO	SL/235	11	11	Nil
233	WK644D2Z406 ZZZZZZ	1" 3000# SW HALF COUPLING A182 F304L B16.11 CRYO	SL/235	3	3	Nil
234	WK645D2Z005 ZZZZZZ	3/4" 3000# SW HALF COUPLING A182 F316 B16.11	SSL/236	13	13	Nil
235	WK645D2Z006 ZZZZZZ	1" 3000# SW HALF COUPLING A182 F316 B16.11	SSL/236	9	9	Nil
236	WK647D2Z004 ZZZZZZ	1/2" 3000# SW HALF COUPLING A182 F316L B16.11	SSL/236	42	42	Nil
237	WK647D2Z005 ZZZZZZ	3/4" 3000# SW HALF COUPLING A182 F316L B16.11	SSL/236	84	84	Nil
238	WK647D2Z006 ZZZZZZ	1" 3000# SW HALF COUPLING A182 F316L B16.11	SSL/236	65	65	Nil
239	WK6P6D3Z004 ZZZZZZ	1/2" 6000# SW HALF COUPLING A182 F317L B16.11	239	3	3	Nil
240	WK6P6D3Z005 ZZZZZZ	3/4" 6000# SW HALF COUPLING A182 F317L B16.11	239	40	40	Nil
241	WK6P6D3Z006 ZZZZZZ	1" 6000# SW HALF COUPLING A182 F317L B16.11	239	30	30	Nil
242	WK6P6D3Z008 ZZZZZZ	1-1/2" 6000# SW HALF COUPLING A182 F317L B16.11	239	3	3	Nil
243	WK648D2Z006 ZZZZZZ	1" 3000# SW HALF COUPLING A182 F321 B16.11	SSS/234	20	20	Nil
244	WL642D2Z008 ZZZZZZ	1-1/2" 3000# SW LH COUPLING A182 F304 B16.11	SL/237	11	11	Nil
245	WL644D2Z708 ZZZZZZ	1-1/2" 3000# SW LH COUPLING A182 F304L B16.11 H2	SL/237	3	3	Nil
246	WL645D2Z008 ZZZZZZ	1-1/2" 3000# SW LH COUPLING A182 F316 B16.11	SSL/238	3	3	Nil
247	WL647D2Z008 ZZZZZZ	1-1/2" 3000# SW LH COUPLING A182 F316L B16.11	SSL/238	20	20	Nil
248	WL6P6D3Z008 ZZZZZZ	1-1/2" 6000# SW LH COUPLING A182 F317L B16.11	239	4	4	Nil
249	WL648D2Z008 ZZZZZZ	1-1/2" 3000# SW LH COUPLING A182 F321 B16.11	SSS/234	4	4	Nil
250	WM642D2Z005 ZZ04ZZ	3/4"X1/2" 3000# SW REDUCING COUPLING A182 F304 B16.11	SL/235	7	7	Nil
251	WM643D2Z005 ZZ04ZZ	3/4"X1/2" 3000# SW REDUCING COUPLING A182 F304H B16.11	SH/230	5	5	Nil
252	WM64482Z005 ZZ04ZZ	3/4"X1/2" 3000# SCRF REDUCING COUPLING A182 F304L B16.11	SL/235	3	3	Nil
253	WM645D2Z005 ZZ04ZZ	3/4"X1/2" 3000# SW REDUCING COUPLING A182 F316 B16.11	SSL/236	3	3	Nil
254	WM64882Z005 ZZ04ZZ	3/4"X1/2" 3000# SCRF REDUCING COUPLING A182 F321 B16.11	SSS/234	3	3	Nil
255	WM64883Z005 ZZ04ZZ	3/4"X1/2" 6000# SCRF REDUCING COUPLING A182 F321 B16.11	SSS/234	6	6	Nil
256	*PS0075ZZLT4 5B24K	3/4" 6000# SW 45DEG.LATERAL EQUAL TEE A182 F304H B16.11	SH/230	39	39	Nil
257	*PS0075ZZLT4 5B22Y	3/4" 6000# SW 45DEG.LATERAL EQUAL TEE A182 F304H B16.11	SH/230	4	4	Nil
			<b>TOTAL</b>	<b>24061</b>	<b>24061</b>	<b>Nil</b>

