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RELEASE NOTE Nr **LTHE / CFHMEL / 57131 / RN No. 001**

BV Job nr: IND.V.4.17.0782 R1 C

PROJECT: Cracker Furnace Package HPCL Mittal Energy Limited - Guru Gobind Singh Polymer Addition Project

Ref: ----

BV Client: L&T Hydrocarbon Engineering Limited

P/o nr: Refinery/74000-27112/SD Dt: 22.10.2018 (LTHE to BV)

Manufacturer / Vendor : M/s CSA Fittings, Taloja

P/o nr: Refinery/75000-57131/Amd 1 30.5.19 (client to Manufacturer)

Sub Vendor: NA

P/o nr: NA (Vendor to sub-vendor)

Inspection requested by: L&T Hydrocarbon Engineering Limited

SUPPLY / SUBJECT OF INSPECTION	ITEM / TAG Nr	QTY
Refer Annexure-I	Refer Annexure – I	Refer Annexure – I

CONCLUSIONS / REMARKS :

The above items have been released in accordance with specifications and purchase order requirements in force at the time of inspection.

Please Refer BV Inspection Report No. LTHE / CFHMEL / 57131 / IR No.001. Dt : 23.07.19 for details

This note is issued further to an inspection whose duration and scope were limited by the terms and conditions of the contract with BV principal. This note is NOT an indication that the item(s) is (are) fit for any specific purpose and does not release the manufacturer, supplier and any party from their respective duty, guarantee, obligation and/or indemnity relating to, without limitation, patents, workmanship, materials, safety, performance in operation and/or reliability.

Inspected by:

Name: Hasratul Haq

Date of issue: 23.07.19

Inspection centre: BV Mumbai



Checked by:

Name: Hasratul Haq

Signature:...


Distribution: ☐ LTHE ☐ MANUFACTURER ☐ BV-Baroda ☐

This note is subject to the General Conditions of Service of Bureau Veritas in force on the day of its issuance.

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RELEASE NOTE Nr
LTHE / CFHMEI / 57131 / RN No. 001

BV Job nr: IND.V.4.17.0782 R1 C

Item Annexure – I

P.O. SR. NO	CODE	ITEM DESCRIPTION	LOT NO	AS PER P.O. QTY	OFFERED QTY	RELEASED QTY	MTC no
1	PX52ACGN01ZZZRGSA	1" 3000# SW FULL COUPLING A105 B16.11	150	168	168	168	776
2	PTE4AKGN01ZZZRGSA	1" 3000# SW EQUAL TEE A182 F304 B16.11	SL/141	7	7	7	776
3	PE73A4GN01ZZZRGSA	1" 3000# SW 90DEG.LR ELBOW A182 F11 CL.2 B16.11	F11/72	48	48	48	776
4	PE72ACGN0GZZZRNNSA	3/4" 6000# SW 90DEG.LR ELBOW A105 B16.11	150	547	547	547	776
5	PE72ACGN01ZZZRGSA	1" 3000# SW 90DEG.LR ELBOW A105 B16.11	150	625	625	625	776
6	PE72ACGN1DZZZRGSA	1-1/2" 3000# SW 90DEG.LR ELBOW A105 B16.11	138	618	618	618	776
7	PTR3A4GN01N0GRGSA	1"X3/4" 3000# SW REDUCING TEE A182 F11 CL.2 B16.11	F11/72	117	117	117	776
8	PX73A4GN01ZZZY3SA	1" 3000# SW HALF COUPLING A182 F11 CL.2 B16.11	F11/72	178	178	178	776
9	PE73A4GN1DZZZRGSA	1-1/2" 3000# SW 90DEG.LR ELBOW A182 F11 CL.2 B16.11	F11/72	19	19	19	776
10	PX72ACGN01ZZZY3SA	1" 3000# SW HALF COUPLING A105 B16.11	150	452	452	452	776
11	PX52ACGN1DZZZRGSA	1-1/2" 3000# SW FULL COUPLING A105 B16.11	138	330	330	330	776
13	PR22ACGN1DN01SGPU	1-1/2"X1" SCH-XS PE ECC.SWAGE A105 BS-3799	148	13	13	13	776
14	PTR2ACGN01N0GRGSA	1"X3/4" 3000# SW REDUCING TEE A105 B16.11	150	5	5	5	776
15	PR12ACGN03N1DP52U	3"X1-1/2" SCH-STD/XS BE/PE CONC.SWAGE A105 BS-3799	138	18	18	18	776
18	PE72ACGN0EZZZRNNSA	1/2" 6000# SW 90DEG.LR ELBOW A105 B16.11	150	114	114	114	776
20	PTE2ACGN0EZZZRGSA	1/2" 3000# SW EQUAL TEE A105 B16.11	142	590	590	590	776
22	PE72ACEN01ZZZRGTA	1" 3000# NPT(F) 90DEG.LR ELBOW A105 B16.11 GALV	150	2	2	2	776
26	PX74AKGN0EZZZXQSA	1/2" 3000# SW HALF COUPLING A182 F304 B16.11	SL/141	20	20	20	776
27	PR22ACGN02N01SGPU	2"X1" SCH-XS PE ECC.SWAGE A105 BS-3799	138	2	2	2	776
28	PTE2ACGN0GZZZRNNSA	3/4" 6000# SW EQUAL TEE A105 B16.11	150	54	54	54	776
29	PE12ACGN0EZZZRNNSA	1/2" 6000# SW 45DEG.LR ELBOW A105 B16.11	142	1	1	1	776
30	PE12ACGN0GZZZRNNSA	3/4" 6000# SW 45DEG.LR ELBOW A105 B16.11	150	107	107	107	776
32	PE13A4GN01ZZZRGSA	1" 3000# SW 45DEG.LR ELBOW A182 F11 CL.2 B16.11	F11/72	27	27	27	776

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RELEASE NOTE Nr
LTHE / CFHMEL / 57131 / RN No. 01

BV Job nr: IND.V.4.17.0782 R1 C

P.O. SR. NO	CODE	ITEM DESCRIPTION	LOT NO	AS PER P.O. QTY	OFFERED QTY	RELEASED QTY	MTC no
33	PEI3A4GN1DZZRGSA	1-1/2" 3000# SW 45DEG LR ELBOW A182 F11 CL.2 B16.11	F11/72	7	7	7	776
35	PE74AKGN1DZZRGSA	1-1/2" 3000# SW 90DEG LR ELBOW A182 F304 B16.11	SL/141	4	4	4	776
36	PLL2ACGN03N01Y3S3	3"X1" 3000# SW LATROLET A105 B16.11	150	4	4	4	776
37	PLL2ACGN03N0GYJS3	3"X3/4" 6000# SW LATROLET A105 B16.11	150	8	8	8	776
38	PR22ACGN02N0GC32U	2"X3/4" SCH-XS/160 BE/PE ECC.SWAGE A105 BS-3799	138	29	29	29	776
39	PX52ACGN0EZZRNSA	1/2" 6000# SW FULL COUPLING A105 B16.11	142	32	32	32	776
40	PX52ACGN0GZZRNSA	3/4" 6000# SW FULL COUPLING A105 B16.11	150	58	58	58	776
42	PX53A4GN01ZZRGSA	1" 3000# SW FULL COUPLING A182 F11 CL.2 B16.11	F11/72	40	40	40	776
43	PX54AKGN01ZZRGSA	1" 3000# SW FULL COUPLING A182 F304 B16.11	SL/141	32	32	32	776
44	PTE2ACEN01ZZRGTA	1" 3000# NPT(F) EQUAL TEE A105 B16.11 GALV	150	2	2	2	776
47	PY22ACEN01ZZRGTA	1" 3000# NPT(F) CAP A105 B16.11 GALV	150	2	2	2	776
48	PX52ACGN0EZZRGSA	1/2" 3000# SW FULL COUPLING A105 B16.11	142	2250	2250	2250	776



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original*

**Industry & Facilities Division**

Procurement Services

Page 1 of 5

INSPECTION REPORT N° LTHE / CFHMEL / 57131 / IR No.001

☐ Initial ☐ Interim ☒ Final ☐ Resident
Inspection requested by: L&T Hydrocarbon Engineering Limited
BV Job Nr: IND.V.4.17.0782 R1 C

Project: Cracker Furnace Package HPCL Mittal Energy Limited - Guru Gobind Singh Polymer Addition Project	IPO Ref (If applicable): (BV internal P/o)
BV Client: L&T Hydrocarbon Engineering Limited	P/o nr: Refinery/74000-27112/SD Dt: 22.10.2018 (LTHE to BV)
Manufacturer/Vendor: M/s CSA Fittings, Taloja	P/o nr: Refinery/75000-57131/Amd 1 30.5.19 (client to Manufacturer)
Sub-Vendor: NA	P/o nr: NA (Vendor to Sub-vendor)
Inspection Location: Taloja	Previous Inspection: NA
Inspection performed on: 15.7.19 and 16.7.19, 23.07.19	Next Inspection: As Applicable

MATERIAL / SUBJECT OF INSPECTION ☐ Refer to attachment section J instead (Indicate if separate material list is provided in attachment)	ITEM / TAG Nr	QTY As per P/O	QTY Offered for inspection
As Detailed below			

A – INSPECTION RESULT		
☒ Satisfactory (Without comments)	☐ Satisfactory with comments (Any of trailing Punch or Non Conformity items is still open)	☐ Not Satisfactory (NCR raised during the inspection)
Inspection Summary: (for details refer to section E)		
➤ Inspection of above items has been carried out as per approved ref. documents and result found satisfactory.		
Open Non Conformities:	☐ Yes, details in section G	☒ No
Open Punch List Items:	☐ Yes, details in section H	☒ No
Release Note Issued:	☒ Yes, number(s): LTHE / CFHMEL / 57131 / RN No.01	☐ No

On behalf of Bureau Veritas BV Inspector: Hasratul Haq  	On behalf of Bureau Veritas BV Coordinator: Abhishek Joshi  
BV Office: VADODRA	Inspection Report Date: 23.07.19
Distribution: ☐ CLIENT ☐ BV Baroda ☐ OTHER :	Attachments Report: ☐ Yes, details in section J ☒ No

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INSP PROC 002-En Rev.3.1 – August 2017

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B - REFERENCE DOCUMENTATION: ☐ Refer to attachment section J instead
 (Indicate if separate document list is provided in attachment)

Title	Reference n°	Rev.	Approval status	Approved by	Date
PO	Refinery/75000-57131	1	Final	LTHE	30.05.19
QAP	B018-CFP-LT-911-QC-QD-17	1	Final	EIL	04.03.19
QAP	B018-CFP-LT-911-QC-QD-18	1	Final	EIL	04.03.19
QAP	B018-CFP-LT-911-QC-QD-19	0	Final	EIL	20.09.18
Tech. Spec.	6-44-0054	6	Final	EIL	-----

C - ATTENDEES

Name	Position	Representing
Mr Taha.K	QA QC Engg	CSA Fittings
Mr Hasratul Haq	Surveyor	BVIL

D - MEASURING & TESTING EQUIPMENT USED
☐ Refer to attachment section J instead

(Indicate if separate equipment list is provided in attachment)

Equipment Type	Equipment Identity n°	Last Calibration Date	Expiry Date
VC	80404029	18.9.18	17.9.19
HARDNESS TESTER (BHN)	10006	12.7.19	11.7.20
PMI	100530	28.06.19	27.06.20
Galv coating thk	94561	12.03.19	11.03.20
Thread Gauge 1"	JA 68	10.05.19	09.05.20

Suitability and condition check done of instrument used found satisfactory

E - INSPECTION DETAILS
Description of the inspections carried out:

- Manufacturing Progress Status: NA
- Details of inspection activities carried out with reference to ITP (Each activity elaborated in detail)

QAP CI No./Sr. No.	Description of Activity as per QAP	Description of activity carried out
3	Raw material identification	Raw material TC reviewed as declared by vendor for offered material found satisfactory
5	Heat Treatment	HT chart reviewed for AS and SS items.
7	Stamping of for Testing at lab	Product identification done at vendors premises for testing at NABL approved lab under BVIL witness found satisfactory.
8	Product chemical	Reviewed & endorsed Chemical lab test report (1 pcs /heat) for final product as declared by manufacturer- found in order.
9	Mechanical Testing	Reviewed & endorsed mechanical lab test report (1 pcs /heat) for final product witnessed at LAB by BVIL for UTS, Elongation, YS, Hardness- found in order.
10 b	Visual Examination	Visual inspection carried out for surface condition (for 100 % quantity) – found satisfactory, No injurious surface defect observed. .
10 c	Dimensional check	Dimensional inspection carried out (for 10 % quantity at random) – found within tolerance limits as per applicable specifications.
10e	DPT Witness	DPT witness on 10% qty found satisfactory.
10 f	Hardness	Witnessed Hardness on 10% fittings per line item found

			satisfactory.
10g	PMI		Witnessed PMI on 10%qty for alloy steel and SS fittings found satisfactory.
10g	Hot Dip Galv		Witnessed Galv coating thickness found satisfactory as per A 153
10 h	Verification of marking		Visual inspection carried for verification of markings (for 10 % quantity at random) – found satisfactory.
10 i	Colour coding		Witnessed colour coding for items found satisfactory.
10 j	Manufacturers TC		Reviewed Manufacturer's Test Certificate no. 776 Date- 15.07.2019 as per EN 10204 Type 3.1 of M/s. CSA Fittings, - found in order.

- Confirmation of Certificates review: NA
- BV Identification Details: Inspected items stamped as "  ", and balance as "  "
- Results of Inspection steps: Satisfactory
- Problems pending / Areas of Concern: NIL

F – HEALTH, SAFETY & ENVIRONMENT COMMENTS

(Comment on Observations and Actions Taken During the Inspection)

Inspection carried out with all safety precautions.

G- NON CONFORMITIES ☐ Refer to attachment section J instead

(Indicate if separate punch list is provided in attachment)

Item	Description	Status	Raised on	Report #	Closed on	Report #	Comments
<u>NIL</u>							

H – PUNCH LIST ☐ Refer to attachment section J instead

(Indicate if separate punch list is provided in attachment)

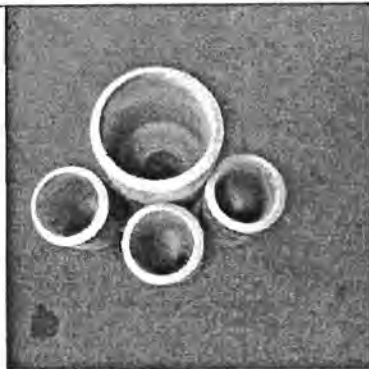
Item	Description	Status	Raised on	Report #	Closed on	Report #	Comments
<u>NIL</u>							

I - DIGITAL PICTURES OF EACH QAP CLAUSE WITH DESCRIPTION

Offered lot



PMI witness



DPT



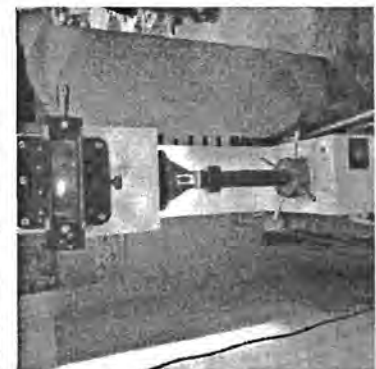
Galv thk



Dimension



Marking co relation



Hardness check

J – ATTACHMENTS

Item	Attachment Name	Total Pages	Description
	Nil		

Annexure – I

P.O. SR. NO	CODE	ITEM DESCRIPTION	LOT NO	AS PER P.O. QTY	OFFERED QTY	RELEASED QTY	MTC no
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4	PE72ACGN0GZZRNSA	3/4" 6000# SW 90DEG.LR ELBOW A105 B16.11	150	547	547	547	776
5	PE72ACGN01ZZRGSA	1" 3000# SW 90DEG.LR ELBOW A105 B16.11	150	625	625	625	776
6	PE72ACGN1DZZRGSA	1-1/2" 3000# SW 90DEG.LR ELBOW A105 B16.11	138	618	618	618	776
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37	PLL2ACGN03N0GYJ53	3"X3/4" 6000# SW LATROLET A105 B16.11	150	8	8	8	776
38	PR22ACGN02N0GC32U	2"X3/4" SCH-XS/160 BE/PE ECC.SWAGE A105 BS-3799	138	29	29	29	776
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40	PX52ACGN0GZZZRNSA	3/4" 6000# SW FULL COUPLING A105 B16.11	150	58	58	58	776
42	PX53A4GN01ZZZRGSA	1" 3000# SW FULL COUPLING A182 F11 CL.2 B16.11	F11/72	40	40	40	776
43	PX54AKGN01ZZZRGSA	1" 3000# SW FULL COUPLING A182 F304 B16.11	SL/141	32	32	32	776
44	PTE2ACEN01ZZZRGTA	1" 3000# NPT(F) EQUAL TEE A105 B16.11 GALV	150	2	2	2	776
47	PY22ACEN01ZZZRGTA	1" 3000# NPT(F) CAP A105 B16.11 GALV	150	2	2	2	776
48	PX52ACGN0EZZZRNSA	1/2" 3000# SW FULL COUPLING A105 B16.11	142	2250	2250	2250	776

END OF REPORT