

INSPECTION RELEASE NOTE/CERTIFICATE NO: LTHE-RUF-73177-IRN-007

DATE: 19-12-2020

OWNER : M/s. HINDUSTAN PETROLEUM CORPORATION LIMITED, (HPCL) **PLACE OF ISSUE** : VADODARA

PROJECT : VISAKH REFINERY MODERNIZATION PROJECT (VRMP) **PACKAGE** : RESIDUE UP-GRADATION FACILITY (RUF) (EPCC-03 PACKAGE)

PMC : M/s. ENGINEERS INDIA LIMITED (EIL) **PMC JOB NO.** : B016-504

CONTRACTOR : M/s. L&T HYDROCARBON ENGINEERING LIMITED (LTHE), Vadodara

VENDOR : M/s. TOPAZ PIPING INDUSTRIES **SUB VENDOR** : ---

LOCATION : POR, GIDC **LOCATION** : ---

P O NO. DATED : REFINERY/75000-73177/AVK DATED.30.09.2020 **P O NO. DATED** : ---

Sr. No.	P O Item No.	SAP Code/ Item Code	Material Description	MTC No.	P O Quantity (Nos.)	Quantity Offered (Nos.)	Quantity Accepted (Nos.)	Is item QTY complete as per PO
1	10	PE52HBAP16 ZZABVAIQ	ELBOW 45° WELDED LR 16" ASTM A234 GR WPB-W IBR SCH XS BEVELLED END ASME B16.9	IBR PROV. NO. 1221	2	2	2	YES
2	30	PEB2HBAP16 ZZABVAIQ	ELBOW 90° WELDED LR 16" ASTM A234 GR WPB-W IBR SCH XS BEVELLED END ASME B16.9	IBR PROV. NO. 1210	3	3	3	YES
3	73	PRK2HBAP40 32AMCAIQ	REDUCER ECCENTRIC WLD 40" X 32" ASTM A234 GR WPB-W IBR SCH XS X SCH STD BEVELLED END ASME B16.9	IBR PROV. NO. 1221	1	1	1	YES

REFERENCE DOCUMENTS :

Sr. No.	Document Title	Document No.	Revision	Approver with Review code	Date of Approval
1	Approved PR / Spec. No./ARM No.	Technical Specification for Procurement of Piping Items: B016-RUF-LT-504-PP-SP-0002	02	EIL, Code 1	01.04.2020
2	Approved PR / Spec. No./ARM No.	TECHNICAL NOTES FOR BUTT, WELDED, SOCKET WELDED AND SCREWED FITTINGS: STANDARD SPECIFICATION NO.: 6-44-0054	06	EIL	Not Applicable

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3	Approved Drawing Nos.	Not Applicable	Not Applicable	Not Applicable	Not Applicable
4	Approved QAP/ITP No.	B016-RUFV-LT-504-QC-QD-0018	00	EIL, Code 1	18.12.2019

STAGES WITNESSED:

- QAP Sr. No.: 11b - Visual inspection (100 %) of offered lot of each line item - No injurious surface imperfections were observed.
- QAP Sr. No.: 11c - Dimensional inspection (10% - Min. 01 No.) randomly selected samples from offered lot of each line item - Found to meet the code and standard requirements.
- QAP Sr. No.: 11c - Thickness checked by ultrasonic thickness gauge of elbows extrados bend portion (10% - Min. 01 No.) & other fittings also randomly selected samples from offered lot of each line item - Found to meet the code and standard requirements.
- QAP Sr. No.: 11d - Penetrant test on bevel edges of dimensionally inspected items – No surface indication were observed.
- QAP Sr. No.: 11e - Product hardness of dimensionally inspected items by portable hardness tester – Found within limit.
- QAP Sr. No.: 11h - Marking & IBR stamp verified (10% - Min. 01 No.) of dimensionally inspected items - Found in order.
- QAP Sr. No.: 11h - Color coding verified (10% - Min. 01 No.) randomly selected samples from offered lot of each line item – Found to meet the project specification requirement.
- QAP Sr. No.: 12 - IBR stamp encircled verified (10% - Min. 01 No.) randomly selected samples from offered lot of each line item – Found to meet the project specification requirement.

Documents/Records Reviewed:

- QAP Sr. No.: 3 - NDT procedures & heat treatment procedures - Found to meet the code and project specification requirement.
- QAP Sr. No.: 6 - Heat Treatment Charts/reports - Found to meet the applicable code and specification requirements.
- QAP Sr. No.: 11 - Dimension reports - Found to meet the code and standard requirement.
- QAP Sr. No.: 11 – PT test, hardness test and Colour coding/Marking reports - Found in order.
- IBR Provisional Release Order No. 1210 & 1221 – Found in order.

REMARKS/NOTE : For IBR items, provisional IBR Form authorized by IBR inspector is reviewed. IBR Form III-C is awaited. Final clearance will be provided by LTHE after receipt of on IBR For III-C from vendor.

IDENTIFICATION : Mfg.'s Logo/Item Code/Material/Size/Schedule/ID No. /HT No. /RT No. /IBR Stamp.

ORDER STATUS : ☐ Complete / ☒ **Incomplete**

DATE(s) OF INSPECTION : **19.12.2020**

Inspection has been carried out based on ☒ Code1 / R ☐ Code 2 drawing & approved ITP.

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CONCLUSION : All items were inspected within the scope defined in approved QAP/ITP & MR/PR and found to meet the requirements of purchase order & specification.

All measuring instruments/ equipment were verified for continued suitability for intended use, proper identification, maintenance, calibration status, traceability to national standards & found satisfactory.



FOR SELF (KRUNAL ZAVERI)
Surveyor(s) to TUV India Private Limited



[REV 01 (IF APPLICABLE) – (JUSTIFICATION). THIS DOCUMENT SUPERSEDES IRN NO DATED.....]

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