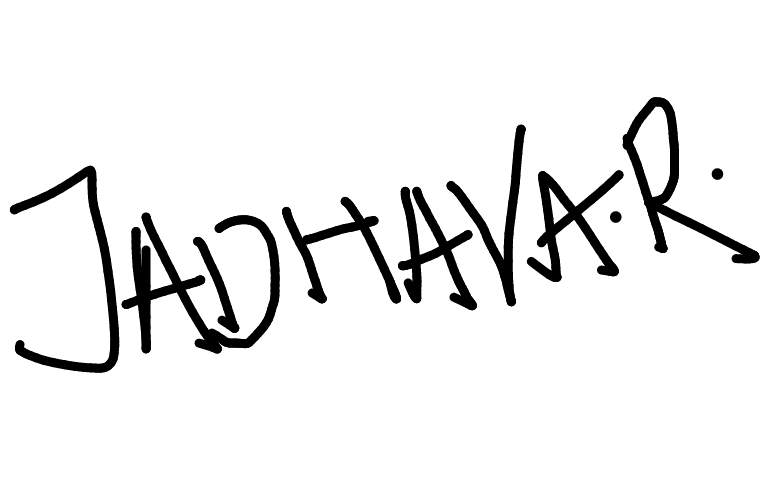
1. MAINTENANCE INSTRUCTIONS
   1. Maintenance instructions

**ORIFICE PLATE ASSEMBLY MAINTENANCE:**

1. Ensure, the pipe line is not under pressure and has been drained (or) plugged.
2. Unscrew the fasteners & use Jack Screws to remove the plate from the assembly.
3. Replace the gasket with new every time when the assembly is opened for maintenance.
4. After maintenance or replacement of assembly flush the line to ensure that there is no foreign material left out in the line.
5. Ensure, Exterior finish free from ''Scrapes, Dings (or) Blistering.
6. Follow the installation & operation instructions every time to ensure the proper working of the flow measuring instrument.
7. The Maintenance period for Restriction Orifice shall be yearly.
8. PRODUCTION DOCUMENTATION

6.1 Material certificates for all pressure parts and support components





Reviewed by Air Products **- REJECTED** Resubmit for Review. CODE 1

Reviewed by Air Products **– COMMENTS AS NOTED,** Resubmit for Review**.** CODE 2

Reviewed by Air Products **– NO COMMENTS,** No Further Submittal Required Unless Drawing is Revised. CODE 4 **ACCEPTED FOR INFORMATION ONLY**

Vendor is not relieved of responsibility for accuracy of dimensions, performance, design, design of details or any code requirements. Further, review by Air Products does not relieve Vendor of responsibility or liability, or from furnishing material in conformance with the contract, purchase order, or other agreement. Air Products’ review shall not be construed as an Approval by Air Products of such documents or an opinion by Air Products that such documents are true and accurate.

Specifier:

EN182128-MIN-9V3-00008 UZGTL-MIN-QAS-QA-10-0-0002 4505084811

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| **UZBEKISTAN GAS TO LIQUID PROJECT (UZGTL)** | | | | | | | | |
| **MATERIAL TEST CERTIFICATES (Unit 10)** | | | | | | | | |
| **UZGTLMIN-QAS-QA-10-0-0002** | | | | | | **00** | | **E** |
| 27.11.2020 | | | | | | | | |
| Rev | Revision Description | Date | | Prepared | Checked | | Approved | |
| 00 | Issue for Information | 09.11.2020 | | SG | KM | | RS | |
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|  | **MATERIAL TEST CERTIFICATES (Unit 10)** | | | |  |
| Doc. No.: UZGTLMIN-QAS-QA-10-0-0002 | | 00 | E |
| Date : 09.11.2020 | Page 2 of 2 | | |

CGM reference document number

UzGTL-CGM-XX-XX-XXXX

**REVISION LOG**

|  |  |  |  |
| --- | --- | --- | --- |
| **REV. NO.** | **REV. DATE** | **REVISED PAGE** | **REVISION DESCRIPTION** |
| 00 | 09.11.2020 | NA | Issue for Information |
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#### INSPECTION RELEASE NOTE

**The equipment / materials referenced below have been released from any further inspections at the Suppliers works**

|  |  |
| --- | --- |
| **Inspection Release Note Number:** | 4505084811-EN-18-2128-UZGTL -20201031-  IRN-001 |
| **Project Name:** | EN-18-2128 (UZBEKISTAN GAS TO LIQUID  PROJECT) |
| **Project Ref.:** | EN-18-2128-UZGTL (ASU for Uzbekistan GTL  Project) |
| **PO Number:** | 4505084811 Dated 20.07.2020 |
| **Supplier:** | M/S MINCO INDIA PVT LTD- Karaswada, Goa |
| **Equipment / Material:** | Flow Element (Qty.: 08 Nos.) |
| **Location:** | Karaswada, Mapusa, Goa, India |

|  |  |  |  |
| --- | --- | --- | --- |
| **PO Item** | **Tag Number** | **Description** | **Quantity** |
| 00010 | 110-FE-1807 | Flow Element (Orifice Plate Assembly) | 1 Nos |
| 00020 | 110-FE-2807 | Flow Element (Orifice Plate Assembly) | 1 Nos |
| 00030 | 110-FE-0040 | Flow Element (Orifice Plate Assembly) | 1 Nos |
| 00040 | 110-FE-0081 | Flow Element (Orifice Plate Assembly) | 1 Nos |
| 00050 | 110-FE-1801 | Flow Element (Orifice Plate Assembly) | 1 Nos |
| 00060 | 110-FE-2801 | Flow Element (Orifice Plate Assembly) | 1 Nos |
| 00070 | 110-FE-1598 | Flow Element (Integral Meter run Assembly) | 1 Nos |
| 00080 | 110-FE-2598 | Flow Element (Integral Meter run Assembly) | 1 Nos |

It is hereby confirmed that: ***Pl put tick mark as per the result.***

☒ All above-mentioned items have been inspected in accordance with the Air Products QCP or Vendor ITP and applicable Specifications with satisfactory results

☒ All material test certificates and associated test reports have been reviewed and accepted

☒ All relevant documents have been approved by Air Products

☒ There are no pending Deviation Requests or open Non-Conformance Reports associated with this equipment / material

* Preservation and Packing of the equipment / material is in compliance with the specified requirements.

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| --- | --- | --- | --- |
| AP Inspector Name: | Sunil Kandolkar    28.11.2020 | Air Products  Representative: | APIL Officials signature (upon submission of Release Note to them by TUV Pune ) |
| Signature | Signature |
| Date | Date: |

**This document is issued without prejudice and does not relieve the Supplier of their contractual obligations defined in the Purchase Order and/or Global Service Agreement. This document is not authorisation to ship the goods.**

AP Inspection Release Note

Template Issue Date: Jan 2017 – Rev 0 1

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#### INSTRUMENTS CONSORTIUM

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Head Off. : 194/195, Gopi Tank Road, Mahim, Mumbai - 400 016. INDIAT\_el. : 91-22-2445 4387 / 2444 9177 Fax: 91-22-2446 3507 E-Mail [; info@general-gauges.com](mailto:%3Binfo@general-gauges.com)

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| D imensional T est Renor t For Orifice Plat!l Asse mbl J With RTJ Holder | | | | | | | | | | | | | | | |
| Client: AIR PRODUCTS PLC | | | | | | | | | | Report No. : OPA-RTJ/ 20-21/707/01 | | | | | |
| PO No .: 4505084811 OTO. 20.07.2020 | | | | | | | | | | Date : 31.10 .2020 | | | | | |
| Project : UZBEKISTAN GAS TO LIQU ID PROJECT (UZGn ) | | | | | | | | | | Qty.: 02 Nos. | | | | | |
| GIC WO No .: EGF-707 | | | | | | | | | | Page: 01 of 01 | | | | | |
|  | | | | | | | | | | | | | | | |
| Sr.  No. | Item | Tag Number | Slie & Rallng | Material | | L | d | **w** | Bevel Angl e | Type | G | Heat Number | |  | |
| 1 | Orifice Plate | UO-FE-1801 | **24" 1500#** | INCONEL-600 | | 652.98 | 371.75 | **U .B8** | 45 ° | SEC | **06.00** | AMR4l16 | |
| 2 | Orifice Plate | U O-FE-2801 | **24" 15001** | INCONEL-600 | | 653.91 | 371.66 | 12.85 | 45° | SEC | **06.00** | AMR4216 | |
|  | | | | | | | | | | | | | | | |
| Sr.  No . | Item • | Tag Number | Size& Rallng | Mate rial | | Q | D | H | A | **p** | Tag Plate Length | Tag Plate Width | Tag Plate Thk. | Heat Nu mber | |
| 1 | RTJ Holder | 110-FE-1801 | 24• is00, | SOFT IRON | | 727.36 | 540.10 | 57.38 | 35.10 | 692.30 | 371.70 | 39.90 | 3.80 | 2000018 | |
| 2 | RTJ Hol der | 110.ff-2801 | **24"** 1500# | SOFT IRON | | 727 .40 | 540.20 | 57.40 | 35.11 | 692. 29 | 372.00 | 40.40 | 3.85 | 2000018 | |
|  | | | | | | | | | | | | | | | |
| Sr.  No . | Item | Tag Number | **Site** & Rating | Flange Type&  Material | Id | Flange OD 'O' | Flange **Bore** 'O' | Flange  Thi<.  ·a · | Hub Length 'Y' | PCO  **'K'** | Pr. Tap Nos.  & Orlc.nta llon pot Flange | | | | Item / Gro up Nu mber |
| 1 | Flange | 110 - FE-1801 | 24" 1S001 | WNRF AIDS | A | 1170.40 | S40.60 | 226.40 | 428.30 | 990.20 | 1/ 2" NPT(F) FLAN GE  02 Nos. At 90 De g. | | | | 3 / M778 E |
| **B** | 1171 .10 | S39 .20 | 22S.70 | 428.00 | 990.40 | 3 / M7780 |
| 2 | Flange | 110 -FE-2801 | **24"** 1S00# | WNRF AlOS | A | 1171 .50 | 539.20 | 126.20 | 429.30 | 991.30 | 1/ 2" NPT(F) FLAN GE  02 Nos . At 90 Deg. | | | | 3 / M778E |
| 8 | 1171 .00 | 539.SO | 226 .10 | 429 .00 | 991.10 | 3 / M778 G |
| Re marks: 1. AJI dimensions are In mm unless o therwise SJl"d fled .   1. Orifice Bore calwlallon as per ISO 5167-2 003. 2. RTJ Holder dimensions to suit mounting between WNRTJ Fla nges. 3. Orifice Plate dimensions to suit mounllng betw ee n RTJ Hol der. 4. Range dimensions as per ANSI B16.36. 5. All Dimensions, EdBl! Sharpnes,s surface Fin ish, Vlsual , Flow Dire cllo n Marking Up/ ow , S pecs. Tagging, Final Ass embly checked & found Acceptable . | | | | | | | | | | | | | | | |
| Re fe rence : CODE-4 Approved Ooument No . UZGn -M IN·INS-09--10-0 -0001-02-E otd. l 0.09.2020 | | | | | | | | | | | | | | | |
| !&u!!l!: WO: Wo,k \_Order ; PO:Purdine Order, SEC: Square Edge Concentric. NA: Not Appllable. | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
| '1.0 REVIEWED/ '"71"EIT *",i,euc*  ). .%.WITNESSED *\_ ff-..:.*  � **t'TuV!**  ' *3,i/i o/1Pv* ..,..\* 902. \*,.,,  *luv* \!' 6 '  MERWIN FERNANDES -  Fo r Minco India Pvt. Ltd. ForTPIA | | | | | | | | | | | | | | | |

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INSTRUMENT S CONSORTIUM



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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Dimensional Test Report For Orifice Plate Asse mb ly | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| Clie nt : AIR PRODUCTS PlC | | | | | | | | | | Report No. : OPA/20-21/707/01 | | | | | | |
| PO No .: 4SOS0848U DTO. 20.07 . 2020 | | | | | | | | | | Date : n .10.2020 | | | | | | |
| Project: IJZSEKISTAN GAS TO LIQUID PROJECT (UZGTL) | | | | | | | | | | Qty.: 06 Nos. | | | | | | |
| GIC WO No.: EGF-707 | | | | | | | | | | Page : 01 of 01 | | | | | | |
|  | | | | | | | | | | | | | | | | |
| *Sr.*  No . | Item | r..  Number | Siu,& R1tl n1 | Material | | 00 'A' | **8ore**  'd' | Thk.  w | Bevel  Anal• | Orifice Type | | Drain  Hole 'G' | **8** | C | Heat  Number | |
| 1 | Orifice **Plate** | 11 1).fE-J.807 | **4•** 3001 | SS316l | | J.80.92 | 71.59 | 3.15 | 45° | SEC | | V3.00 | 1 00 .60 | 29 . 90 | 1906J0335 | |
| 2 | Orifice Plitt | 110-FE-2807 | **4•** 300,t | SS316L | | J.B0.!16 | 71.60 | 3.20 | 45° | SEC | | V3 .00 | 100.60 | 30.40 | 1906)0335 | |
| 3 | Orifice PIiie | 110-FE--0040 | 14 " 300,t | SS316L | | 486 . 20 | UB .52 | 9.64 | 45° | SEC | | 03 .00 | 115.00 | 40.00 | 2001J1147 | |
| 4 | Orifice **PIiie** | 110-FE-0081 | 18" 300,t | SS316L | | 597 .00 | 254.58 | **9.48** | 45' | SEC | | V3 ,00 | 130 .60 | 39 .90 | 2001J1147 | |
|  | | | | | | | | | | | | | | | | |
| *Sr.*  No. | lt1:m | **Tac**  Number | Siu&  Ratlna | Fl n1e Type& Mlterlal | Id | Flanae OD 'O' | Fl1nae **Bo<e** 'D' | Flan11:  Thk.  ' Cl ' | Hub Lenatt, 'Y' | PCD  'K' | | Pr. Tap Nos.  & Oritntlttan perIlana• | | | Item /Batch/ Sr.  Numbr.r | |
| 1 | Flan1e Union | U O-FE-1807 | **4• 300,t** | WNRF  A105 | **A** | 255.40 | 102.20 | 39.40 | 93.00 | 200.10 | | 1/2" NPT(F) FLANGE  02- - At 90Des, | | | 2404 | |
| **B** | 255.86 | 101.13 | 39-60 | 93.42 | 200.26 | |
| 2 | Flan1e Unlo!l | 110-FE-2807 | **4•** 300,t | WNRF  Al05 | **A** | 255.30 | 101.95 | 40.20 | 92.60 | 200.60 | | 1/2" NPT(f) FLANGE  02 Nos. At 90 De1. | | | 2404 | |
| **B** | 255 ,60 | 102 .02 | 41.00 | 91.20 | 200.70 | |
| **4** | Flance Union | 110-FE--0040 | 14" 3001 | WNRF Al 05 | **A** | 586 .02 | 329.20 | 56.65 | 143.60 | 514,40 | | 1/ 2" NPT{F) FLANGE  02 Nos. At 90 De1 . | | | l / M78 3 R | |
| **8** | 58S .70 | 329 .24 | 56.50 | 143.10 | 514.60 | |
| 3 | **Aini•**  Union | 111).fE-ooll | 18" 300# | WNRF AlOS | **A** | 712.lO | 438.38 | 6l..80 | 160 .50 | 628.40 | | 1/2 " NPT(F) FlANGE  02 Nos. At 90 Dec- | | | 2 / M78l R | |
| **8** | 712. 20 | 437.90 | 63.40 | 160.30 | 628.30 | |
| l!lmidli: 1.• All dlmtrulons **are** In mm unless otherwiA 1peclfltd.  2. Orlflce Bo<e ••- .. **p..-** 150 5167- 2003.   1. All Dlmenslom , Visual, Edi• shafpneu, surface flnilll, Spe<s. Taal•&. Dlrectlon Marl<ln1 Up/ r>w, Flnlll Asst mb ly checked & fou nd Acceptab lt . 2. Dimensions of flan&tl .. per ANSI 816 .36 .   S. 1/ 2" NPT(M) Plup In 55316 & PVC Mlt 'l 02 Nos , each per **tae** p,oylded IS per 1pproved GAO.  Rlfl!:lng: COOE-4 Approved 00..ment No. U2Gll -MIN-l NS-O!H 0-0-0001-02-E Did . 30.09.2020  l.!&!!l!I: WO: Worl< order, Pin'....,\_ Order, Id: ldon1lllatlon,00 :0Uuldo Diomelor , Thi< :TbidtnolA, Pt, Top:Plt """'*1......,* PCD: Pitch Cl,d• Oi.,,.oto,, D: Dnln, RO: Rutrictlan Orllko , NA: Not Applu blo. | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | |
| *<:, C'r*  u.  C -·  \* ---•:t,•  11 ,, | | | | | | | | | | | REVl \•'i'f:O *J* , s pec1;0   * *I O* o. % WITNESSED ,, t.P   **{**- **TuV !**<"  *y* .,  tP *\* 1u9 02* ·  *V* 1n6'  MERWIN FERNANDES | | | | |  |
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| Fo r Minco India Pvt. Ltd . | | |  |  |  |  |  |  |  |  | |  |  | ForTPIA |  |  |
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| Rf: VIEVO'EO / NeTErr , s pec/i0  *.{\_tf!.f;?•••*%WITNESSED *Ji* "u>  -**i TuV** l**}**<> **l** | |
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| *1 '("* \* *1u902 ·1\*,*"'  vino'  MERWIN FERNANDES | |

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| Dimensiona l Test Report For Integral Meter-Run Orifice Plate Assembly | | | | | | | | | | | | | | | | | | | | | | | |
| Client : **AIR** PROOU<n PLC | | | | | | | | | | | | | | | | | Repon No.: IMM/l.fHl/707/01 | | | | | | |
| PO No. : 'SIISOlloCIU DTD. 20.07.2020 | | | | | | | | | | | | | | | | | Date ! 3L10 .l. 02D | | | | | | |
| Project : UZIIOOSTAN GAS TO UQUIO PROJECT (UZGTIJ | | | | | | | | | | | | | | | | | Qty .: 02 N..\_ | | | | | | |
| GIC WO No. : EGF-707 | | | | | | | | | | | | | | | | | flq\_•: 01 ofOl | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | |
| Sr.  No, | T..  Number | **Sb•**  **- •atinr** | Id | | Meter ftun Pipe | | Odflca Plat-t | | | | | | | | End **Rans•** | | | | | lnlq,al ,\_ | | l..,U, | Tolilll As,embly lc nc th |
| Slzo *I* Sdt ./ M■tl./ HNtNo. | **Pipe**  OD | Motl./  He■t No . | .0,,0.. | **Bon**  **' d "** | Thie  **·w·** | .....  **Ansle** | I | C | TYIM' | Rodns/ Type/ Motl. | ID 'D' | Thie  ·a· | PC) | l<•at/lot/  Group  No. Hu | Motl./  t No. | .....  'D' |
| 1 | 110-fE..lStl | 1"  **lOOORf** | , Up  **Ow** | | 1 " Sdt .l liO A106Cil.l  211- | 33.47  -  33.51 | SSllil.  1906J033S | 65.59 | U.'8 | 3.Zf | 45' | 90.10 | 29.90 | SEC | **lOOI**  WNRf  ,U05 | *1.fl.n* | la.JO | **l&.95** | IAU | a  55) | 2.fl.70 | 750 . 00 | 999.SO |
| **20.80** | lLlS | 19.10 | 20.'8 | 20.50 |
| z | llCHE•ZSH | l"  **:ioo.RF** | Up  I--  **Dw** | | l" Sdt .l liO **AlO<iGt.8 Zl1'6U** | .,.3.3.SS    3.1.,10 | SS116l  19<KJ0335 | 65.47 | u... | J.]O | cs' | **90.40** | **29.IO** | SEC | **lOOI** WNRF A105 | 20.79 | 11.1' | **19.00** | **Ult** | a  553 | 20.n | 7 49.liO | 999.0Q |
| 20.14 | 11.15 | **19.IS** | 2.fl. 75 | U9AO |
| *�* L AA dlmtnA0111 lni In mm unleuoltterwiM JPl!dfied.   1. Orifka pt.te dlmllfl:MONi to suit mountlna beTwffft lntaaral bDCL 2. All **Dlm111sion1 dleaed U .....Drowtns** I. lovnd wld,ln ■**a eptal>I•** HmlU.   4-. End Fbnae dlmeasiom checked u p...- ANSI 1116.36 and found with.In 1cup1Able linda..   1. Dlmonslon5, Eds• ....,,,.....••mm finis . IPOCS. Tagln&, Flow Dltoction M■n <i n&, Fino! Aswn bly, dlecud I. found 01(. 2. Orifice **Bon ailmladan u po,** ISO 5167 , 2003.   llmWlB' C00E-4Appro.-.d **OoumMI No,** l/lGTl•MIN-IN5-09-l <><><XlOI -OH Did. **JO.o9.2020** | | | | | | | | | | | | | | | | | | | | | | | |
| : Wet.Work Ord« , PO: Purt;hete Otd« , Sch.: Schedule, Mllll: Materlat Jd: Jdc:ntlflutlon,Up: Uprtrsm. Ow: Downstream, Thk.• Thkkneu, SEC:. qU11re Ed&• COncentric, NA: Not; Appllcllble.. | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | |
| For | 'l".s-  ·   * -l .   Minto Indio Pvt. ltd. | | | co |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ForTPIA | |  |  |
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ISO 9001 : 2015, 14001 : 2015, 18001 : 2007 COMPANY)



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| HYDROTEST REPORT | | | | | | | |
|  | | | | | | | |
| Client: AIR PRODUCTS PLC | | | | | Report No: HTR/20-21/707/01 | | |
| PO No..: 4505 08481.1 OTO. 20.0 7.2.020 | | | | | Date: 3L 10.2020 | | |
| Project : UZBEKISTAN GAS TO LIQUID PROJECT (UZGTL) | | | | | Qty. : 02 Nos . | | |
| GIC WO No.: EGF-707 | | | | | Page: 01 of 01 | | |
| Item: Integral Meter-Run Orifice Assembly 02 No.  Testing M edia : Water Duration Of Test: 10 minutes. | | | | | | | |
|  | | | | | |  | |
| Sr.  **No.** | Tag Number | Size &  Rating | Hydrotest Pressur e (Kg/on2) | Pressure Guage Identification No. | **Range**  (Kg/on2) | | Gauge Calibration Due on |
| 1 | 110-FE-1598 | 1" 300# RF | 28.00 | 13070920 | 0-60 | | 02.09.2021 |
| 2 | 110-FE-2598 | 1" 300# RF | **28.00** | 13070920 | o-60 | | 02.09.2021 |
| Result : No leakage or No pressure drop observed, hence accepted. | | | | | | | |
| *I , .: pecr;0 ,,*  '• *?i.* /c!::>O.. %WITNESSED ·-*cY*7i ;v 2  !# *'t -* **U ·n**  I:. I. -f· ? *{' (-,,w \**1u902 ."'/  \* .. ' MERWIN FERNANDES *V* 1n6'  •'  For Minco India Pvt. Ltd. ForTPIA | | | | | | | |
|  | | | | | | | |



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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Liquid Penetrant Examination Test Report | | | | | | | | |
|  | | | | | | | | |
| Tutlng Agency : GIC | | | | | Test Report No.: DPT/20-21/707/01 | | | |
| Date of Test: 31.10.2020 | | | | | Client: AIR PRODUCTS PLC | | | |
| GIC WO No.: EGF-707 | | | | | PO No.: 4505084811 OTO. 20.07.2020 | | | |
| **Page:** 01 of 01 | | | | | Pro ject : U2.BEKlSTAN GAS TO UQUID PROJECT IU2GTL) | | | |
| **Material Used** for Testing;  Cleaner: MAGNAFLUX SKC-1 BATCH NO: 16002 dt. APR 2019 (Expiry 5 Years from Mfg Date)  Devlooer: MAGNAFLUX SKD-S2 BATCH NO: 16D09 dt. APR 2019 (Expirv 5 Years from Mf Date)I I  Penetrnnt: MAGNAFLUX SKL· SPl BATCH NO: 16B14 dt. FEB 2019 (Expiry S Years from Mfg Date·) 1 | | | | | | | | |
| *Sr.*  No. | Item | Tag Number | Slze & Rating | Welder No. | t.ocatlon |  | I ' | Remarks |
|  | | |
| 1  2 | - lnte sral Meter-Run Assembly | 110-FE-1598 | 1" 300#RF | W2 | All Weld Joints | No relevant lndlcatlon were observed Hence Accepted | | |
| 110-FE-2598 | 1" 300# RF | W2 | All Weld Joints | No relevant Indication were observed Hence Accepted | | |
|  | | | | | | | | |
| � *I* N8i'ErJ , spect;0/J  .( .?....% WITNESSED t.ff-ru- v- ti  */w-iP Y*Q) 902 \*  \**luv* 1n6'  MERWIN FERNANDES  For Minco India Pvt. ltd. ForTPIA | | | | | | | | |
| 1. Th• above tut ruults **relate** only to the sample ln.,pected, 2. No part of this Test Report shall **be** reproduced wlthoutlhe written permissionof this Testing **Agency.** | | | | | | | | |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Positive Material Ide nt ification (PMI) Test Report | | | | | | | | | | | | | | | | | |
| Equipment Drt alls: INNOV·X D1- 2000 | | | | | | | | | | Olen!: AIR PRODUCTS PLC | | | | | | | |
| Equ lpmont Sortal No.: S61179 | | | | | | | | | | PO No ,: 4505()8qll om. 20.07.1020 | | | | | | | |
| Test Report No .: PMI/ZO.ll/707/01 | | | | | | | | | | ProJttt N1 me: UZBEKISTAN GAS TO UQUID PROJECT (UZGTL) | | | | | | | |
| Date of Test: 29.10.2020 | | | | | | | | | | Item : Orifice Plate AsStmbly with Fl•nt• Un ion | | | | | | | |
| GIC WO No .: EGF-707 | | | | | | | | | | •• , . , 01 of 01 | | | | | | | |
| **Rmfl Bil!llf** · For ASTM A240 SS316l • 0 - 16 to 11%, Mo- 2 to 3" , Nl- 10 to 14%  For ASTM 8168 UNS **N06600** (INCONEL-600) • 0 - 14 to 17" , Mn1',-1% m.. , NI- 72 to 76%, F.,. 6 lo 10%, Cu- 0.5" ma• | | | | | | | | | | | | | | | | | |
| Sr.  No. | Tat Nos . | | | Siu&  Ratln& | | **Item** | Hut  Number | | **Actua l** Observatlom | | | | | | | Mate rial ld entlflcd as | Re>ult |
| o" | Mo% | NI " | Fe " | | Mn% | Cu " |
| 1 | 1111-FE-1B07 | | | **4" 300#** | | Orifla, Plat.e | 190610335 | | 16.21 | 2.30 | 10 .17 | - | | - | - | SS316l | OK |
| 2 | 1111-FE-2807 | | | **4• 300#** | | Orifice Pl•I• | 1906J0335 | | 16.30 | 2.U | 10.29 | - | | - | - | SS316l | OK |
| 3 | UII-FE-l)(),10 | | | 14"300I | | Orlflce Plate | 200U1147 | | 1&.75 | U2 | 10.10 | - | | - | - | SS316l | OK |
| **4** | 1111-FUXl81 | | | **u·** 300# | | Ortflce P t• | 200Ul147 | | 1, 6 69 | 2..U | 10.0I | - | | - | - | SSl16L | OK |
| 5 | 11 11-FE-1101 | | | 24• 1SOO,t | | Orifice Plate | **AMR4216** | | 16.10 | - | 74.96 | 7.95 | | ***OAO*** | 0.14 | INCONEL- 600 | OK |
| 6 | 1111-FE-2101 | | | 24 " 1500A' | | Orifice Pl1te | AMR4216 | | 15 .89 | - | 74.50 | 7.24 | | 0.5.1 | 0.12 | INCONEL-600 | OK |
| *1* | 11 11-FE-1591 | | | 1· 300# | | Orifia, Plate | 1906J0l35 | | 16.84 | 2..16 | 10 .0I | - | | - | - | S5316L | OK |
| **8** | UD-FE-2591 | | | 1· 300# | | Orlflco Plitt | 1906J0335 | | 17.22 | **2..21** | 1 0 .04 | - | | - | - | SSll 6 L | OK |
|  | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | |
| . |  |  | - *17-.*  ·c o.  -'  '',·..... | |  |  |  | REVIEWED  MERWIN FERNANDES | | | | | I | | | | |
| For Minco India Pvt, Lt d. | | | | | • | | |



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**Painting Compliance Report**

Ref: COMP/ EG F-707 /0 1 Date: 31.10.2020

To

AIR PROD T PLC

**Sub:** Painting Compliance Report for Flanges

Ref: PO o.: 45050848 l l DTD. 20.07.2020

GIC WO o.: EGF-707

Proj : UZBEK I T G TO LIQUID PROJECT (UZGTL)

Item: Flang , Pipes & Integral Block

IT,

Thi i to compl that ith reference to abo e mentioned Purchase Order, for AH Flanges, Pipes & I n tegral Block of Carbon teel MateriaJ 2 Coats of Red Oxide Primer bas been appLied with satisfactory results *as* per GlC"s tandard Painting Procedure.

OF found ithin the range of 40-60

icron. Visual Inspection done - Found Satisfactory.



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Quality Control Department

