REPLIES TO BIDDER'S PRE BID QUERIES

PROCUREMENT OF LINE PIPE FOR AGCL - GOLAGHAT- BCPL - NRL GAS GRID

AGCL/GMB/BCPL/PIPE/2022/II/01 Dated 07/12/2022

DATE : 26.12.2022

Sl. No.	Tender Clause No./ Annexures	Page No.	Tender Description	Bidder's Query	PLECO/ AGCL Response
COMMERCIAL QUERIES					
1	Clause No. 6.4 Volume I of II	9 of 85	Tender document fee INR 30,000/- (Inclusive of GST)	Since the tender fee in all the state and central government tenders is zero, bidder requests to make it zero for this AGCL tender too.	Tender condition shall prevail.
2	Clause No. 4.0 Volume I of II	8 of 85	BID VALIDITY Bid should be valid for 120 days from the date of schedule submission.	This is a closed bid and there is no reverse auction. Hence bidders need to submit the most competitive prices. Considering the volatility of steel prices and other consumables it is very difficult for bidders to offer competitive prices with longer validity. Hence bidder requests to amend the clause as follows; "Bids shall be kept valid for 45 days from the final bid due date."	Refer Corrigendum #1 uploaded in portal.
3	Cl. No. 18.0 Volume I of II	24 of 85	BID SECURITY / EMD	1. Bidder understands that Form F-2 Bid Bond Performa for preparation of Bank Guarantee with a validity of 180 days (120 Days Bid Validity +60 Days beyond the validity). Please confirm. 2. Bidder understands that below AGCL Bank details defined in the bidding shall be applicable for SFMS advice **AGCL Banking Details Required For CPBG** BANK NAME: STATE BANK OF INDIA ACCOUNT NAME: ASSAM GAS COMPANY LIMITED Account No.: 10494832011 IFSC Code: SBIN0002053 MICR Code: 786002302 Please confirm. 3. The total required bid security amount of INR 1,82,00,000.00/- which is too high for subject procurement. In view of this bidder sincerely requested to revisit the same and reduce to a nominal amount.	Bidders understanding is correct. Refer Corrigendum #1 uploaded in portal. Tender conditions shall prevail.

4	Clause No. 3.2 Volume I of II	8 of 85	Delivery Period: Delivery within 22 weeks. Pregressively from beginning of 16th week and up to the end of 22nd week.	Bidder stated that to bring it our notice that commencement of delivery within 16th week from date of LOI may not be feasible because of lead time of steel procurement, pipe manufacturing ,coating and delivery of pipes to distant locations along with unloading ,stacking arrangements at site In the view of above bidder proposed to deliver Pipes as per below schedule : Starting from 20th week and end up to 24th week from the date of LOI with continuous delivery period during this period.	Refer Corrigendum #1 uploaded in portal.
5	Clause No.11.0 of SCC Volume I of II	64 of 85	Bank details	Following bank details are provided for the issuance of CPBG. BANK NAME: STATE BANK OF INDIA IFSC Code : SBIN0002053 Please confirm whether the same are also applicable for the issuance of Bank Guarantee in lieu of EMD.	Bidders understanding is correct. Refer Clause No. 11.0 of SCC Volume I of II for AGCL Bank details.
6	Clause No. 40.0 Volume I of II	61 of 88	REPEAT ORDER PURCHASER reserves the right, within 6 months of order to place repeat order up to 25% of the total order value without any change in unit price or other terms and conditions.	Bidder requested to appreciate that it will not be commercially viable to procure steel in small quantity defined in Group C along with Bare Pipe Quantities defined in Group A & Group B line items. Hence bidder requested to limit repeat order to the extent of 25% within a month of award instead of within a period of six months so that additional steel quantity can be manufactured with the original quantity. Please confirm.	In case of repeat order bidders will be informed one month before.
8	Clause No. 38 Volume I of II	58 of 85	Fall Clause	Bidder stated that to note that the prices of Line Pipes quoted by them are dependent on Raw Materials like steel, PE, Adhesive, Epoxy, etc. which are procured from an open competitive market and their prices are volatile and dynamic. Depending on the ever-changing market conditions, prices of raw materials fluctuate. Therefore, bidder requested to remove this clause as it restricts us from quoting against this tender.	Refer Corrigendum #1 uploaded in portal.
10	Clause No. 37.0 Volume I of II	32 of 85	AGCL reserves the right to place the order for part quantity or delete and item from bidder's scope of work. The Purchaser reserves the right at the time of contract award to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.	Bidder requested to give clarity on Quantity Variation percent in bidding stage. Also bidder stated to note that negative quantity variation is likely to have cost impact on account raw material (steel) sourcing constraints. Hence bidder requested us to clarify quantity variation at bid stage only so that any cost impact can considered at bid stage. Please confirm.	At present scenario, possibility of negative quantity variation is zero.
11	Tender Documents	General	Rate of Custom Duty considered for Import of Raw Material	Bidder understands that Merit rate of custom duty shall be applicable for this tender. Please confirm.	Tender condition shall prevail.

12	Tender Documents	General	Recovery of custom duty, GST etc.	Bidder states that any new taxes or duty imposed by competent authority on import of raw material should be reimbursed by Purchaser to Supplier. Please confirm.	Tender condition shall prevail.
13	Tender Documents	General	1. DMI & SP Policy. 2. Applicability of MoPNG PP-LC policy.	1. Bidder understands that the Ministry of Steel (MOS) Domestic Steel policy (linked with value addition) policy is not applicable for subject tender. 2. Bidder also understands the "Ministry of Petroleum & Natural Gas policy of Purchase Preference linked with local content" is not applicable for subject tender.	1. Steel Policy will be applicable. 2. Tender condition shall prevail.
14	Clause No. 4.0 Volume I of II	8 of 85	Bid Validity Bid should be valid for 120 days from the date of scheduled submission	Bidders brought it to your notice that prices of raw material particularly Steel have already skyrocketed to all time high and the trend is also quite buoyant for coming times. In the view of this, keeping bidders offer valid for 120 days may not be feasible. Hence, bidder requests AGCL to modify bid validity to 60 days from final bid due date instead of 120 days. Or If our above proposal was not accepted we propose to conduct Group wise Reverse auction to finalize the procurement.	Refer Corrigendum #1 uploaded in portal.
15	Clause No. 7.0 Volume I of II	10 of 85	Bidder Evaluation Criteria Bidder can quote all the item or any one items in group C. Evaluation will be done item wise for Group C. Bid quoted with partial quantity against an item shall be rejected. Also, bidder quoting any of the item, have to quote for both coated and bare quantity.	Bidder understands that the item description 8'' (4.01 & 4.02), 6'' (4.03 & 4.04) & 4'' (4.05 & 4.06) defined in Group C shall be clubbed together for bid evaluations and the entire qty of Group C shall be awarded to single Bidder.	Group C will be evaluated for the entire quantity.
16	Clause No. 3.1 Volume I of II	7 of 85	DELIVERY LOCATION	Bidder request to provide delivery location address for all group A, B & C with location map for better understanding about delivery location and distance.	Bidder to refer Clause No. 3.0 of IFB Volume I of II for delivery location. Further details regarding delivery location will be intimated on award of work.
17	Clause No. 7.4.3 Volume I of II	12 of 85	All documents in support of Technical Criteria of Bid Evaluation Criteria (BEC) to be furnished by the bidders shall necessarily be duly certified/ attested by Chartered Engineer and notary public with legible stamp.	In other O&G tenders, TPI certified with notarized documents are acceptable. Bidder Request to consider all documents in supprot of Technical Criteria of Bid Evaluation Criteria to be submitted duly certified/attested by TPI and Notary Public with legible stamp.	All documents in support of Technical Criteria of Bid Evaluation Criteria (BEC) to be furnished by the bidders shall necessarily be duly certified/ attested by Chartered Engineer and notary public with legible stamp. Tender conditions shall prevail.
18	Clause No. 8.2 Volume I of II	13 of 85	BID Security Amount : Group A – 71,00,000 Group B – 86,00,000 Group C – 25,00,000	If bidder is quoting for all A,B,C Groups then what will be EMD amount in this case? Kindly Confirm.	If bidder is quoting for all A,B,C Groups then EMD/ Bid Security amount will be the summation of EMD amount of Group A, Group B & Group C.

19	Clause No. 7.0 Volume I of II	10 of 85	7.1.6 The Bidder can quote both the Group A & B. Company shall open the Group-A first. The L-1 Bidder shall be awarded the Group-A Purchase Order. The successful L-1 bidder Price Bid of Group-A shall not be open for Group-B. The bidder quoting any group has to quote for full quantity. The total of coated & bare pipe shall be considered for L-1 Bidder evaluation.	If a bidder becomes L1 in Group A and has capacity and Capability to full fill delivery requirements for other Group B quoted by bidder, In such case, we request you to evaluate its bid for other Groups also.	Tender Conditions shall prevail.
TECHNICAL QUERIES - PIPES					
1	5	-	**DOCUMENT PRECEDENCE** It shall be the responsibility of the MANUFACTURER/ VENDOR to inform the PURCHASER of any errors, ambiguities, inconsistencies, discrepancies or conflict of information that may be found to exist in any document, specification or drawing submitted by the PURCHASER. In case of conflict, the order of precedence shall be as follows: a) MR b) Basic Documents (Specifications) c) Codes and Standards As a general rule in the event of any discrepancy between technical matter and local laws/ regulations (and documents above listed) the most stringent shall be applied. MANUFACTURER/ VENDOR shall notify PURCHASER of any apparent conflicts between MR, specifications, related datasheets, any code and standards and any other specifications noted herein. (Resolution and/ or interpretation precedence shall be obtained from PURCHASER in writing before proceeding with the design/ manufacturer or completion of services.)	Bidder has considered following Specification while evaluating this enquiry in below precedence: • Material Requisition for Line Pipe, Doc. No. P101-MRR-P001, Rev.TC Dated 05.12.2022 • Scope of Work for Line Pipe, Do. No. P101-SOW-P001, Rev.TC Dated 05.12.2022 • Standard Specification for High Frequency Welded (HFW) Line Pipe (ONSHORE), Doc. No. P-SPC-002, Rev. 0 Dated 31.12.2021 • Inspection and Test Plan For Electric Welded Line Pipes, Doc. No. P-ITP-001, Rev. 0 Dated 04.01.22 • API 5L 46th Edition April 2018 & Errata 1 dated May 2018 And agreed Deviations (if any). Please Confirm.	Noted
2	8 Foot note 1 Foot note 2	-	All bare pipes are meant for hot induction bend & station piping and shall have +10% positive wall thickness tolerance. Negative tolerance for coated pipe wall thickness is not acceptable.	Bidder request to clarify if any additional requirement to be considered for Mother pipes to be used for hot induction bend forming. However, we have considered the requirement of Client specification for HFW pipes along with API 5L 46th Edition. Please Confirm.	Bidder to consider MR requirements.
3	8 Foot note 5	-	Steel shall be procured from approved steel mill only	Bidder request to provide the list of approved steel mill for the tender. Please Confirm.	Bidder to submit mills for approval along with PTR after award.
4	8 Foot note 10 9.11.3.3	-	Pipes shall be supplied between 11.5 m to 12.5 m in length as specified in specification. All pipes shall be supplied with length between 11.5 m and 12.5 m. However pipe with length between10.0 m and 11.5 m can also be accepted for a maximum of 5% of the ordered quantity. The minimum average length of the entire ordered quantity in any case shall be 12.0 m. Overall length tolerance shall be (-) Zero and (+) One pipe length to complete the ordered quantity. Table 12 of API Specification5L stands deleted.	Bidder Understands that pipes shall be supplied for pipe in double random length with below length range: • Minimum 95% pipes shall be supplied with length between 11.5 meters to 12.5 meters. • Maximum 5% pipe shall be supplied with length between 10 meters to 11.5 meters. • Minimum Average shall be 12m. Please Confirm.	Noted

5	8 Foot note 20	-	For butt weld end, bevel shall be in accordance with API specification 5L.	Bidder confirms for bevel end preparation as per API 5L CL 9.12.5.2. Please Confirm.	Noted
6	Foot note 21 9.12.5.7	-	Bevel Protector or end caps shall be installed on all pipe ends. End caps shall be hook able type which shall allow the use of end hooks without the need for their removal during pipe handling. The bevel protector shall be the re-usable type. The details of the bevel protector/end caps shall be furnished for approval prior to start of the production. **Bevel Protectors** Both pipe ends of each pipe shall be provided with metallic or high impact plastic bevel protectors as per Manufacturer's standard. Bevel protectors shall be of a design such that they can be re-used by coating applicator for providing on externally anti-corrosion coated pipes subsequent to coating of line pipe.	Bidder confirms to supply pipes As below: • Metallic bevel protectors for pipes having OD ≥ 8.625”. • Plastic end caps for pipes having OD ≤ 6.625”. Please Confirm.	Noted
7	2	-	**NORMATIVE REFERENCES** The latest edition (edition enforce at the time of issue of enquiry) of following additional references are included in this specification: **ASTM E112-12:** Standard Test Methods for Determining Average Grain size	Bidder understands that the latest year edition of ASTM E112 i.e of 2013 is to be considered. We confirm to follow this latest edition. Please Confirm.	Latest edition to be followed.
8	10.2.1.2 Table 18	-	b Pipes selected shall be such that one at the beginning of the heat and one at the end of the heat are also represented.	Bidder confirms for product analysis in pipes with 2 samples / 100 pipes / heat shall be selected randomly from the heat used at pipe mill for pipe production with lot of 100 pipes. Please Confirm.	Noted
9	Table 20 10.2.3.3	-	Test Pieces for the CVN Impact Test In addition to the API Specification 5L requirements, following shall also be applicable: The test pieces shall be prepared in accordance with ASTM A370. Non-flattened test pieces shall be used. The axis of the notch shall be perpendicular to the pipe surface. Charpy V-notch impact testing shall be performed on full—sized test pieces. However, if preparation of full size test piece is not possible, then standard sub-sized test pieces shall be prepared as per ASTM A370. Lower pipe sizes wherein preparation of transverse sub-sized specimen is not possible, CVN impact testing shall be carried out on longitudinal test specimen [see Note 'a' of Table G of this specification].	Bidder clarifies that for size 4.5” and 6.625” OD x 6.4mm WT, extraction of transverse sample from base, weld and HAZ is not possible. Also as per API 5L 46th Edition Table 22, the CVN impact test with transverse specimen is not specified for the above referenced tender size. However, CVN impact test for base metal can be performed with sample extraction in longitudinal direction. Accordingly confirms to perform CVN for this size (4.5” & 6.625” OD X 6.4 mm WT) in longitudinal direction for base metal only. Please Confirm.	Longitudinal extraction shall be done. All test as per ITP to be performed.

10	10.2.8.7	-	The measuring equipment requiring calibration or verification under the provisions of API Spec 5L shall be calibrated with manual instruments at least once per operating shift (12 hours maximum). Such calibration records shall be furnished to Purchaser's Representative on request	Bidder confirms that repeatability of measuring instruments Verification of all measuring instruments shall be done in each shift of 12 hours at final station. Record of same shall be furnished to the appointed representative. However, Bidder clarifies that calibration of dimension measuring equipment shall be done on yearly basis from an external NABL lab. Please Confirm.	This will be taken up during MPS stage in case bidder is awarded the job.
11	11.2.4	-	The pipe number shall be placed by cold rolling or low stress dot marking or vibro-etching on the outside surface of the pipe at an approximate distance of 50 mm from both ends. In case of non-availability of either cold rolling or low stress dot marking facility in pipe mill, an alternative marking scheme of a permanent nature may be proposed by the Manufacturer.	As permitted in Technical specification, as an alternate marking scheme, Bidder proposes that the use of Laser Marking machine shall also be permitted (permanent in nature) for placing the pipe number on OD surface. Please Confirm.	Tender conditions shall prevail at this stage.
12	11.2.8	-	A colour code band shall be marked on inside surface of finished pipe for identification of pipes of same diameter but different wall thickness, as indicated in the Purchase Order. The colour code band shall be 50 mm wide and shall be marked at a distance of 150 mm from the pipe ends.	Bidder clarifies that there is no same diameter pipe with different wall thickness in the tender; the specified requirement is not applicable and not considered. Please Confirm.	Noted
13	E.5.1.1	-	In addition to the API Spec 5L requirements, all automatic ultrasonic equipment shall have an alarm device, which continuously monitors the effectiveness of the coupling. The equipment for the automatic inspection shall allow the localization of both longitudinal and transverse defects corresponding to the signals exceeding the acceptance limits of the reference standard. The equipment shall be fitted with a paint spray or automatic marking device and alarm device for areas giving unacceptable ultrasonic indications. All ultrasonic testing equipment shall be provided with recording device. **In addition, an automatic weld tracking system shall be provided for correct positioning of the probes with respect to weld centre.**	Bidder intend to clarify that Ultrasonic testing for pipe Body for size 4.5” & 6.625” OD will be carried out after pipe forming using ROTO UT (immersion technique) as per Client Spec CL E.11, where seam tracking will not be applicable. However, the requirement of automatic weld seam tracking system is confirmed for the pipe size OD ≥ 8.625”. Please Confirm.	This will be taken up during MPS stage in case bidder is awarded the job.
14	VOL-2	9 of 114	Overall length tolerance shall be (-) Zero and (+) One pipe length to complete the ordered quantity	We understand that given quantity tolerance is -0/+1 pipe length is item wise basis and location wise. Please confirm	Confirm to complete the ordered quantity

15	VOL-2	18 of 114	Scope of Work For Line Pipe	1) We understand that the bidder scope of work w.r.t warehouse is limited to unloading and stacking of pipes at designated warehouse. Please confirm. 2) Further we understand that land development along with development of Internal Roads and drainage arrangement are not in the scope of bidder. Please confirm. 3) Please also confirm whether arrangement of Sand Bags and Preparation of Sand Rows is in the scope of Bidder. 4) We understand that land for dumpsite will be free issued by in developed condition	Owner shall select dumpsite in high land area so that rain water does not accumulate. However during unloading & movement , any levelling or temporary measures to be done for movement of trailer and crane is in Bidder scope. Also note unloading of pipe is in Bidder scope. Arrangement of sand bags and sand rows is in Bidder scope.
16	8.0 DESIGN DATA	MATERIAL REQUISITION FOR LINE PIPE 8.0 DESIGN DATA NOTES	17. Bidder shall inspect of all bare & coated line pipes in presence of Owner representative while handing over of pipes. Also, Bidder shall carry out 10% of pipes for Holiday inspection while handing over of pipes. Repair of damaged pipes, beveled end defects and damaged coating (including supply of coating materials for repair) noticed at the time of handing over of bare/ coated pipes. All handling, lifting tools etc. required for inspection of coated & bare line pipes at Storage Yards shall be carried out by the bidder. 18. Also, Bidder shall carry out 10% pipe Internal Diameter inspection by Pull through (95% of ID) shall be carried out by bidder during handling over pipes to owner. 19. Holiday Inspection shall be carried out by bidder while unloading the pipe at Storage yard.	Holiday test of each coated pipe shall be carried out during final inspection of coated pipes in presence of TPIA at coating plant; if any pipe is detected in holiday detector then the pipe shall be repaired as per acceptance limit of client specification. We propose that pipes to be visually inspected at storage yard for damages if any. In case of coating damage, pipe coating shall be repaired as per approved procedure.	Tender conditions shall prevail at this stage.
17	P-SPC-002 Rev. 0 Cl. No. 9.10.6	Hard Spot	Hardness greater than 248HVio shall be classified as defect	We understand 248HVio is typo error. Hardness greater than 248 HV10 shall be classified as defect. Please confirm.	Noted
18	P-SPC-002 Rev. 0 Cl. No. 9.11.3.4 (b)	Straightness	The local deviation from straight line in 1.0 m portion at each pipe end shall be ≤ 3.0 mm, as shown in figure 2 of API spec 5L.	This requirement is as per 45th edition of API 5L. It is modified in 46th edition of API 5L. “The local deviation from straight line in 1.5 meter portion at each pipe end shall be ≤ 3.2 mm.” Please confirm.	Noted
19	P-SPC-002 Rev. 0 Cl. No. 10.2.5.3	Vickers Hardness	The resulting Vickers hardness value at any point shall not exceed 24811V10. The maximum difference in hardness between the base metal and any reading taken on the weld or heat affected zone shall be less than 80HVio	We understand 24811V10 & 80HVio is typo error. The resulting Vickers hardness value at any point shall not exceed 248 HV10. The maximum difference in hardness between the base metal and any reading taken on the weld or heat affected zone shall be less than 80 HV10. Please confirm	Noted
20	P-SPC-002 Rev. 0 Cl. No. 11.2.4	Pipe markings	The pipe number shall be placed by cold rolling or low stress dot marking on the outside surface of the pipe at an approximate distance of 50 mm from both ends.	Stamping on pipe is technically not advisable. Also stamping is not a safe practice. Hence we propose to waive off the requirement of stamping.	Tender conditions shall prevail at this stage.

21	9.3.2	32	The ratio of body yield strength and body tensile strength of each test pipe on which yield strength and ultimate tensile strength are determined, shall not exceed 0.90	Bidder requested kindly allow ratio of body yield strength and body tensile strength of each test pipe as per API 5L 46th edition.	Tender conditions shall prevail at this stage.
22	9.8	33	From the set of three Charpy V-notch impact test pieces, only one is allowed to be below the specified average absorbed energy value and shall meet the minimum single absorbed energy value requirement as specified in Table G of this specification.	Bidder requested kindly allow as per API 5L 46th edition. Impact test for 4 & 6 inch wave off testing as per API 5L latest edition.	Tender conditions shall prevail at this stage.
23	9.10.7 (a)	34	Imperfections that have a depth < 0.05t and do not encroach on the minimum specified wall thickness shall be classified as acceptable imperfections and shall be treated in accordance with Clause C.1 of this specification.	As per API 5L 46th edition clause no. 9.10.7 (a) Imperfections that have a depth ≤ 0.125t and do not encroach on the minimum permissible wall thickness shall be classified as acceptable imperfections and shall be treated in accordance with C.1. So Bidder requested kindly allow surface imperfection as per API 5L 46th edition.	Tender conditions shall prevail at this stage.
24	9.12.5.7	36	Both pipe ends of each pipe shall be provided with metallic or high impact plastic bevel protectors as per Manufacturer's standard. Bevel protectors shall be of a design such that they can be re-used by coating applicator for providing on externally anticorrosion coated pipes subsequent to coating of line.	Design of Bevel Protector acceptable. Bidder Understand Bevel protector shall be used after 3LPE Coating. As mill and coating. As mill & coating is same premises.	Noted
25	10.2.6.2	41	The pressure gauge used for hydrostatic testing shall have a minimum range of 1.5 times and maximum range of 4 times the test pressure. The test-pressure measuring device shall be calibrated by means of a dead-weight tester only. The test configuration shall permit bleeding of trapped air prior to pressurization of the pipe.	Bidder understand test pressure measuring device requirements which is ok. Moreover, Bidder request the calibration of pressure gauge by dead-weight tester on weekly basis. Please confirm.	This will be taken up during MPS stage in case bidder is awarded the job.
26	E.5.2.3.2	48	Reference Standards for pipe body UT: Reference standards for the ultrasonic inspection of coil or pipe body (except the coil edges /pipe ends) shall contain continuous machined notch of following dimension: a) width, w : 8mm, with a tolerance +0.8/0.0 mm b) depth, d : 0.25<d<0.5 t, where 't' is the specified wall thickness Reference standards for the ultrasonic inspection of coil edges (area adjoining weld seam)/pipe ends shall have 6.4 mm diameter FBH of a depth 0.5t, where 't' is the specified wall thickness.	Body UT will carried out as per reference standards: a) width, w : 8mm, with a tolerance +0.8/0.0 mm b) depth, d : 0.25<d<0.5 t, where 't' is the specified wall thickness Bidder requested, kindly wave off of FBH for reference standard.	This will be taken up during MPS stage in case bidder is awarded the job.
27	LIST OF RECOMMENDED TPIA Of ITB Page No. 112 of Vol II	-	Recommended list of TPIA is Given in the tender documents.	We request you to kindly add M/S BUREAU VERITAS INDIA PVT LTD in your recommended TPIA list.	Will be evaluated later

<table>
<tr><td>28</td><td>Scope of work
Ref: Clause No. 2</td><td>-</td><td>Brief Scope of Supply</td><td>Kindly clarify the complete scope of work with reference to dump-yard.</td><td>Owner shall select dumpsite in high land area so that rain water does not accumulate. However during unloading & movement , any levelling or temporary measures to be done for movement of trailer and crane is in Bidder scope. Also note unloading of pipe is in Bidder scope. Arrangement of sand bags and sand rows is in Bidder scope.</td></tr>
<tr><td>29</td><td>Scope of work
Ref: Clause No. 2</td><td>-</td><td>Brief Scope of Supply</td><td>We understand that Comapny will provide suitable land for storage of pipes and trailer movement, land will be plain and free from trees, ponds, mountain, and only little levelling and compacting may be done by supplier if required.

Kindly clarify whether our understanding is correct or not?</td><td>Owner shall select dumpsite in high land area so that rain water does not accumulate. However during unloading & movement , any levelling or temporary measures to be done for movement of trailer and crane is in Bidder scope. Also note unloading of pipe is in Bidder scope. Arrangement of sand bags and sand rows is in Bidder scope.</td></tr>
<tr><td>30</td><td>Ref: Clause 7.0 BIDDER EVALUATION CRITERIA (BEC) of ITB</td><td>-</td><td>7.1.7 Bidder can quote the entire item or any one item in group C. Evaluation will be done item wise for Group C. Bid quoted with partial quantity against an item shall be rejected. Also, bidder quoting any of the items; have to quote for both coated and bare quantity.</td><td>Qty of items in group C are very small and delivery required at 2 to 3 places, we request you take delivery at one place considering small quantities.</td><td>At present tender condition shall be followed.</td></tr>
<tr><td>31</td><td>Scope of work
Ref: Clause No. 2</td><td>-</td><td>GROUP-C of Brief Scope of Supply</td><td>As per tender conditions, manufacturing process is required HFW only, please note that there is small dia pipes also and we would like to offer Seamless mfg. process, so, we request you to allow us to quote SMLS pipes.</td><td>Noted</td></tr>
<tr><td>32</td><td>Technical Spec</td><td>-</td><td>Seamless Pipe Specification</td><td>Kindly share the technical specification for seamless pipes.</td><td>Refer Corrigendum #2 uploaded in portal.</td></tr>
<tr><td>33</td><td>Inspection certificate 3.2 for HR Coils.</td><td>-</td><td>Inspection certificate 3.2 for coil & Billets</td><td>Kindly clarify whether HR Coils Inspection by TPIA is required at steel mill or not?</td><td>This is Bidder's responsibility</td></tr>
<tr><td>34</td><td>CL. 2.0 of INVITATION FOR BIDS (IFB)</td><td>-</td><td>
<table>
<tr><th>ITEM NO</th><th>SIZE (INCH)</th><th>THK. (MM)</th><th>MATERIAL (PSL-2)</th><th>EXTERNAL COATING</th><th>METHOD OF MANUFACTURE</th><th>QTY (Mtrs.)</th></tr>
<tr><td colspan="7">GROUP-B</td></tr>
<tr><td>1.</td><td rowspan="2">16"</td><td rowspan="2">7.1</td><td rowspan="2">API 5L
GR.X-52</td><td>3 LPE</td><td rowspan="2">HFW</td><td>73000</td></tr>
<tr><td>2.</td><td>BARE</td><td>500</td></tr>
</table>
</td><td>The Method of Manufacture is only “HFW”.

We request PLECO/AGCL to allow “LSAW” pipes as well enabling us to quote for this tender. Also we request you to provide technical specification for LSAW.</td><td>HFW to be followed</td></tr>
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35	E 5.2.3.2	-	Reference Standards for coil/pipe body UT: Reference standard for the ultrasonic inspection of coil or pipe body (except the coil edges /pipe ends) shall contain continuous machined notch of the following dimension: (a) Width, w : 8mm with a tolerance +0.8/-0.0mm (b) Depth, d : 0.25t < d < 0.5t, where t is the specified wall thickness	Bidder clarifies that Auto UT for the detection of laminar imperfection is carried out in Rotary UT after pipe forming in accordance with ISO 10893-8 using immersion technique for OD 4.5" & 6.625". We will use 6mm FBH as a reference standard for both pipe body and HAZ which is more stringent than the client requirements. Please Confirm.	This will be taken up during MPS stage in case bidder is awarded the job.
TECHNICAL QUERIES - 3LPE PIPES					
1	Cl. 8.0 (Note 17 & 19) of Doc. No.: P101-MRR-P001, Material Requisition for Line Pipe Cl. 6.3 (iv) of Doc. No: P101-SOW-P001, Scope of work for Line Pipes	-	17. Bidder shall inspect of all bare & coated line pipes in presence of Owner representative while handing over of pipes. **Also Bidder shall carry out 10% of pipes for Holiday inspection while handing over of pipes.** Repair of damaged pipes, beveled end defects and damaged coating (including supply of coating materials for repair) noticed at the time of handing over of bare/coated pipes. All handling, lifting tools etc. required for inspection of coated/ bare line pipes at Storage Yards shall be carried out by the bidder. 19. Holiday Inspection shall be carried out by bidder while unloading the pipe at Storage yard. **Cl. 6.3 (iv) of P101-SOW-P001: Scope of work for Line Pipes** Bidder shall inspect all bare & coated line pipes in presence of company representative while handing over of pipes. Repair of damaged pipes, beveled end defects and damaged coating (including supply of coating materials for repair) noticed at the time of handing over of bare/ coated pipes. All handling, lifting tools etc. required for inspection of coated/ bare line pipes at Storage Yards shall be carried out by the bidder.	Bidder wants to inform that each coated pipe holiday test shall be carried out during final inspection of coated pipes in presence of TPIA at coating applicator's plant. Bidder intent to clarify that repeat holiday test normally not recommended, Since the coating stability will deteriorate after multiple holiday test & holiday test at site practically not possible. This will also have safety concern at site. **Bidder proposes that pipes will be visually inspected for damages if any. In case of coating damage, pipe coating shall be repaired and tested for holidays on repaired area.** Please confirm.	Tender conditions shall prevail at this stage.
2	Cl. 6.1 (VI) of Doc. No: P101-SOW-P001, Scope of work for Line Pipes Cl. 9.2.4.2 (Table 6) of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	VI. Pipe surfaces shall be cleaned to SA 2½ (in accordance with ISO 8502 -3) using suitable grit/ shot, free of any deleterious contamination or moisture. The surface roughness shall be checked at random and shall be of the range of 30-60 microns in accordance with ISO 4287-1. **Table 6 — Requirements for inspection of surface preparation of pipe** **Sl.** **No. Properties Test Method Require-ment Frequency** **During PQT During** **Production** **7 Surface roughness** **of blasted surface ISO 8503-4 Rz/ Ry5: 75µm to** **100µm Each pipe Every 1 h**	Bidder understands that there is a typo error in Cl. 6.1 (VI) of Doc. No: P101-SOW-P001, surface roughness shall be in the range of 75 µm to 100 µm as per Cl. 9.2.4.2 (Table 6) of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022. Please confirm.	Noted

3	Cl. 7.4.2 of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	The coating materials manufacturer shall carry out tests for all properties specified in Table 2, Table 3 and Table 4 of this specification for each batch of epoxy, adhesive and polyethylene compound respectively. In addition, the manufacturer shall also furnish infra-red scan for each batch of epoxy powder. The manufacturer shall issue Inspection Certificate 3.1 B in accordance with EN 10204 for each batch of materials supplied to Applicator and same shall be submitted to Company for approval prior to their use.	Bidder clarifies that material manufacturer will provide test certificate for all properties specified in Table 2, Table 3 and Table 4 of specification for each batch of epoxy, adhesive and polyethylene compound respectively. However all the properties will not be tested for each batch. Epoxy, Adhesive and Polyethylene manufacturer will provide batch test certificate for the measured value and typical value as mentioned below: **Epoxy Powder:** All Properties tested for each batch as per Table 2 **PE Adhesive:** MFI, Density and Water content results shall be reported as measured value for each batch whereas the Tensile Yield Strength, Elongation at break, Vicat Softening Temperature and Flexural Modulus will be reported as typical values supported by reputed lab reports. **High Density Polyethylene:** Density, Melt Flow Rate, Oxidation Induction Time, Carbon Black Content, Water Content results shall be reported as measured value for each batch. The properties –Melting Point, Hardness Shore D, Elongation at break, Tensile Strength, Vicat Softening Temperature, ESCR, Indentation, Impact Resistance, Volume Resistivity and Dielectric Withstand shall be reported as typical value supported by independent lab test report valid for one year. For UV resistance, Thermal ageing and Coating Resistivity test bidder will submit independent laboratory test report furnished by material manufacturer. These test certificates will not be older than three years. Please confirm.	Noted
4	Cl. 7.4.3 (Table 2) of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	Epoxy properties shall meet the properties listed in table 2 below: **Sr. No. Properties Unit Requirement Test Method** **1. Density g/l Within ± 0.05 of the manufacturer's specified nominal value ISO 21809-1 Annexure N**	Bidder would like to clarify that Density unit shall be g/cc to meet the specified requirement or the requirement shall be ± 50 in g/l, as confirmed by Epoxy powder manufacturer. Please refer Attachment 01 - Batch Test Certificate FBE Scotchkote 226 (3M) for reference. Please confirm.	Noted
5	Cl. 7.4.3 (Table 2) of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	Epoxy properties (As – Applied): Hot water adhesion 28 days @65°C.	Bidder intent to clarify that the hot water adhesion 28 Days at 65°C is to be performed for 28 Days at raw material supplier Lab., Epoxy material supplier shall perform the test for each batch and submit the report after 28 Days from date of dispatch of material but each batch test report will written as under testing for 28 days during initial dispatch. Please confirm.	Noted

6	Cl. 7.4.4 (Table 3) of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	Adhesive material properties Copolymeric or grafted adhesive material shall meet the properties listed in Table 3 below: **Flexural Modulus acceptance criteria ≥450 MPa.**	Bidder clarifies that acceptance criteria for Flexural Modulus Test shall be as per adhesive material manufacturer's specification and the same shall be supported by reputed lab reports. As confirmed by adhesive raw material manufacturer (Make: Borealis, Grade: ME0420, Flexural modulus acceptance criteria shall be ≥350 MPa. Technically adhesive thickness of nearly 200 micron in applied condition will not make any difference on flexural modulus of coated pipe as it will be govern by Top Coat. The top coat Flexural modulus is typically >900 MPa. The ISO 21809-1 and Canadian standards CSA.Z245.21 do not stipulate this test. (Please refer Attachment – 2, 3, 4 and 5 as a declaration / PDS of all the approved adhesives materials/manufacturers in line with above mentioned proposal for Flexural Modulus as per ANNEXURE I of Spec. No.: P-SPC-003 for review and acceptance.) Please confirm.	Bidder shall submit earlier acceptance on this PMC/ Client during MPS Stage duly signed.
7	Cl. 7.4.6 c) of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	**In house testing** **Polyethylene** Thermal stabilization test (as per ASTM D3895)	Bidder would like to clarify that as per ASTM D3895: Oxidative Induction Time shall be performed to determine qualitative assessment for the stabilization of the material. Bidder understands that OIT shall be carried out at 220°C as per Table 4 of Spec. No.: P-SPC-003, Rev. 00. Please confirm.	This will be taken up during MPS stage in case bidder is awarded the job.
8	Cl. 7.5.1 of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	All materials to be used shall be supplied in sealed, damage free containers and shall be suitably marked with the following minimum information: a) Name of the manufacturer b) Type of material/ product description c) Mass/ Quantity of material d) Batch number e) Location of manufacture f) Date of manufacture g) Manufacturing identification number h) Temperature requirements for transportation and storage i) Shelf life or 'use by' date (DD/MM/YYYY) j) Qualified minimum flexibility test temperature k) Safety Data Sheets (to be included with delivery)	Bidder proposes based on confirmation from Adhesive and PE manufacturer that the information required in clause 7.5.1 points a, b, c, d, e, g will be marked on bag whereas others shall be provided through Certificate of Analysis / Batch test certificate. For FBE powder packages marking will be complied. Please confirm.	This will be taken up during MPS stage in case bidder is awarded the job.

9	Cl. 9.3.3.7, 9.3.2.4, 9.3.3.8, 9.3.3.9 & Table 5 (A2), (A4), (B14) & (C15) & (C16) of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	A (2): Air pressure in epoxy spray guns – Continuous monitoring & recording A (4): Pipe temperature: Continuous monitoring & recording B (14): Extrusion temperature of adhesive – Continuous monitoring & recording C (15): PE extrusion temperature – Continuous monitoring & recording C (16): Water quenching – Continuous monitoring	Bidder propose and consider that the following application parameters shall be monitored continuous & recorded at once per hour during the regular production. • Air pressure in epoxy spray guns; • Pipe temperature prior to epoxy application; • Temperature of adhesive film; • Temperature of PE film. • Water quenching temperature Bidder understands that “Water quenching temperature” refers to the coated pipe temperature after quenching / cooling. Kindly confirm.	This will be taken up during MPS stage in case bidder is awarded the job.
10	Table 5 (A7), (A9) & (A10) of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	**Properties Inspection frequency during PQT** **Holiday detection (test voltage set to exceed 5V per µm of epoxy thickness) Each pipe** **No holidays** **Cross-section porosity Each pipe** **Interface porosity Each pipe**	Bidder would like to clarify that, these test are applicable for partially coated pipe with epoxy and partially coated with both epoxy and adhesive layer. As specified in clause 8.3.4 of Spec. No.: P-SPC-003, Rev. 00, during PQT out of five pipes one pipe partly coated with epoxy and partly coated with both epoxy and adhesive layers shall be included. Remaining 4 test pipes shall have all three layers. So Bidder understands frequency of these tests shall be one partly coated pipe instead of each pipe. Bidder would like to state that it is practically difficult to achieve no holiday at 200 microns minimum dry film thickness. Hence holiday acceptance criteria shall be 0.7 holiday per square meter as per clause 10.3.2.2 of ISO 21809-2 for FBE coated portion of partly coated pipe. Please confirm.	Tender conditions shall prevail at this stage.

11	Table 5 (C22) & Cl. 10.5 Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	**Table 5 (C22) :** Properties: Bond strength (peel Strength) @ 23°C±2°C & 80°C±2°C **Acceptance Criteria:** ≥15 N/mm & ≥3 N/mm Test method: ISO 21809-1 Annex C, (clause C.2 or C.5 hanging mass) and clause 10.5 of this spec. **During PQT:** 5 pipes x 3 tests (@ both ends & middle) **production:** 2 h for pipe ends (cutback portion) & 4 h for middle of pipe **Cl. 10.5** **Bond Strength (Peel Test)** 10.5.1 Applicator shall carryout bond strength test for applied coating as per Table 5 of this specification. A minimum of 65 mm length shall be peeled. First 20 mm and last 20 mm length shall not be counted for assessment of bond strength.	Bidder proposes to bond strength test shall be carried out by manual peel test machine (Spring loaded type test assembly) due to size constraint for 4"OD, 6"OD & 8"OD pipes. Please confirm. We request to kindly consider the practical difficulty. Bidder proposes to perform bond strength test at maximum feasible distance from either end instead of middle of the pipe. It is not possible to maintain the test temperature required at the middle of the pipe due to size constraint. For bond strength at each cut back ends, bidder confirms to comply specification. Please confirm.	Noted
12	Table 5 (C23) of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	**Properties Inspection frequency During PQT** **Coating resistivity One pipe** **(Test carried out in an independent laboratory of national/ International recognition on PE topcoat is also acceptable).**	Bidder understands that the Coating resistivity is the long term tests and shall be performed by PE topcoat raw material supplier / manufacturer. Test certificates shall be furnished by raw material supplier / manufacturer shall be submitted for review and acceptance. Please confirm.	Noted
13	Table 5 (C25) of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	**Properties**: Indentation resistance **Test Method**: ISO 21809-1 Annex F and clause 10.6 of this spec.	Bidder understands that there is typographical error, the Indentation resistance test Cl. No. 10.6 read as 10.7 of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022. Please re confirm	Noted
14	Table 5 (C26) of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	Elongation at break **Test Method** : ISO 527-3 & clause 10.12 of this spec.	Bidder clarifies; ISO 527-3 is applicable for Test conditions for films and sheets and it need to read in conjunction with ISO 527-2: Test conditions for moulding and extrusion plastics as per ISO 21809-1 table no. 5. Please confirm.	Noted

15	Table 5 (C27) of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	**Sl. No. Properties** **27 Cathodic Disbondment** **• 65 °C/24 h;-3.5V** **• 23 °C/28 d;-1.5V** **• 80 °C/28 d;-1.5V**	Bidder understands that the Cathodic Disbondment temp. range shall be as per ISO 21809-1 as follow: 1. 65±3°C /24 h: -3.5V 2. 23°±3° C /28 d: -1.5V 3. 80°±3°C /28 d: -1.5V Please confirm	Noted
16	CS. Cl. 9.2.4.1 & Table 6 (5) of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	**CS. Cl. 9.2.4.1** All pipes shall be tested for salt contamination after blast cleaning as per Table 6 of this specification. An approved salt meter (SCM 400 or equivalent) shall be used to carry out salt tests and shall be calibrated in accordance with the equipment manufacturer's recommendations. **Table 6** Soluble salt after Blasting – Max. 20mg/m2 Test Method- Conductive measurement ISO 8502-9 Frequency during PQT-Each pipe Frequency During Production- Each pipe	There are two different method are mentioned in clause 9.2.4.1 and Table 6, for salt contamination testing. Bidder proposes to use Elcometer 130 SCM 400 machine as per SSPC Guide 15 to check chloride contamination. Elcometer 130 SCM 400 provides instant results and is critical for coating operations. This test method is also widely practiced in the industry. Please confirm.	This will be taken up during MPS stage in case bidder is awarded the job.
17	Cl. 9.3.3.9 of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	The extrusion temperatures of the adhesive and polyethylene shall be continuously recorded. The monitoring instruments shall be independent of the temperature control equipment. The instruments shall be calibrated prior to start of each shift.	Bidder clarifies that pyrometers that are used for PE & adhesive temperature monitoring, are specialized equipment and are calibrated in specialized equip outside laboratory, so we propose to review the outside lab calibration certificate. However the pyrometer shall be checked for errors every shift against a calibrated temperature-measuring instrument. Please confirm.	This will be taken up during MPS stage in case bidder is awarded the job.
18	Cl. 9.3.3.12 of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.	-	Coating cutback Coating and/or adhesive shall terminate 120 mm (+) 20/ (-) 0 mm from pipe ends. The adhesive shall seal the ends of applied coating. Applicator shall adopt mechanical brushing for termination of the coating at pipe ends. Edge of the coating shall be shaped to form a bevel angle of 30° to 45°. Wherever specified the cut back shall be 150mm (+) 20/ (-) 0 to facilitate automatic welding.	There are two different requirements of cut back length mentioned in specification. Please confirm the applicable external coating Cut-back length for this project.	Cut back length 120 mm (+) 20/ (-) 0 mm to be followed.

<table>
<tr><td>19</td><td>Cl. 10.4.1 of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.</td><td>-</td><td>The holiday detector shall be a low pulse D.C. full circle electronic detector with audible alarm and precise voltage control complying with DIN VDE 0433 Part 2.</td><td>Bidder will use high voltage Holiday Detector in accordance with Annex-B of ISO 21809-1:2011. DIN VDE 0433 Part 2 has been withdrawn.

Please confirm.</td><td>Noted</td></tr>
<tr><td>20</td><td>Cl. 12.0 of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.</td><td>-</td><td>MARKING
Colour band</td><td>Please provide the colour coding requirement. If any.

Please confirm.</td><td>As per manufacturer</td></tr>
<tr><td>21</td><td>Annexure-I of Spec. No.: P-SPC-003, Rev. 00, Dated: 05.01.2022: Standard specification for 3 layer polyethylene coating of line pipes.</td><td>-</td><td>PE compound (Manufacturer)
HE 3450H (Borealis / Borouge)</td><td>Bidder propose HDPE topcoat grade HE 3450 (Manufacturer: Borouge / Borealis) in addition to the list of approved coating material supplier.

HE 3450 meets all the requirements of Specification No.: P-SPC-003, Rev. 00, Dated: 05.01.2022.

Please confirm.</td><td>This will be taken up during MPS stage in case bidder is awarded the job.</td></tr>
<tr><td>22</td><td>Sr. No. 3.5, 3.6 & 3.7 of Doc. No. P-ITP-003, Rev. 00, Dated: 04.01.2022: Inspection and Test Plan for 3-Layer PE Coating of line pipes</td><td>-</td><td>SL. No. 3.5
Lab test for Chromate, Phosphoric acid & de-ionized water (as applicable)
SL. No. 3.6
Phosphoric acid wash followed by de-ionized water wash (as applicable)
SL. No. 3.7
Chromate Treatment (as applicable)</td><td>Bidder understands that chromate treatment & phosphoric acid wash are not required according to 3LPE coating specification P-SPC-003 Rev. 00 Date 05.01.2022, the specification doesn’t address chromate treatment & phosphoric acid wash.

Please confirm.</td><td>Please follow ITP requirement.</td></tr>
<tr><td>23</td><td>Sr. No. 24 of Table 5 of P-SPC-003</td><td>Impact test’s test temperature</td><td><table>
<tr><th rowspan="2">Sl. No.</th><th rowspan="2">Properties</th><th rowspan="2">Acceptance Criteria</th><th rowspan="2">Test Method</th><th colspan="2">Inspection Frequency</th></tr>
<tr><th>During PQT</th><th>During Production</th></tr>
<tr><td>24.</td><td>Impact resistance (min. of 30 impacts onbody located equi-Distance along the length.No breakdown allowed when tested at 25 kV)</td><td>≥7 J/mm of coating thickness</td><td>ISO 21809-1 Annex-E and clause 10.6 ofthis spec.</td><td>3 pipes</td><td>2 pipes / shift(1)</td></tr>
</table></td><td>We conduct test at ambient condition in plant along the length.
Practically 23°C ± 3°C temperature cannot be maintain entire the pipe length.

Please confirm.</td><td>Noted</td></tr>
<tr><td>24</td><td>8.3.7 of P-SPC-003</td><td>Recycling of PQT pipes</td><td>On successful completion of PQT, coating of all five (5) test pipes shall be removed and completely recycled as per the approved coating procedure specification, at Applicator's expense. Remaining pipes will be accepted by Company provided they meet the requirements of this specification and need not be stripped and re-cycled.</td><td>We proposed that all the pipes including 5 PQT pipes shall be considered acceptable if they meet the requirements of this specification and need not be stripped and re-cycled.

Please confirm</td><td>Tender conditions shall prevail at this stage.</td></tr>
</table>

25	8.4.2 Table 5 — Requirements for plant applied coating (PQT and Production)	72	Hot water adhesion 24 h @ 65 °C	Bidder would like to inform that, 24 Hrs. Hot water adhesion temperature is 75 °C ± 3 °C, which is mentioned in ISO 21809-2 (2014) Clause A.16 - Hot water adhesion of the coating.	Tender conditions shall prevail at this stage.
26	8.4.2 Table 5 — Requirements for plant applied coating (PQT and Production)	74	Cathodic disbondment test • 65 °C/ 24 h; - 3.5 V • 23 °C/28 d;-1.5 V • 80 °C/ 28 d; -1.5 V	Practically Maintain exact test temperature is not possible proposed that ± 3 °C temperature maintain during perform the test.	This will be taken up during MPS stage in case bidder is awarded the job.
27	9.2.4.2 Table 6 — Requirements for inspection of surface preparation of pipe	79	Each pipe Soluble salt after blasting	Bidder would like to inform that, All pipe shall be provided chemical pretreatment with phosphoric acid (if Applicable) for removal of salt contamination from the pipe surface. Hence, We propose that test shall be conduct in 1 in 10 pipes.	Tender conditions shall prevail at this stage.
28	9.3.3.7	81	Air pressure in the epoxy spray guns shall be controlled, continuously monitored and recorded by using suitable instruments.	Bidder would like to inform that air pressure in epoxy spray guns shall be monitored continuously & recorded in log book at a frequency of once per 04 hours during the regular production.	Noted
29	General	-	Doc. No. P-ITP-003, Rev. 00, Dated: 04.01.2022: Inspection and Test Plan for 3-Layer PE Coating of line pipes	Bidder understands; INSPECTION AND TEST PLAN FOR 3-LAYER PE COATING OF LINE PIPES Doc. No. P-ITP-003, Rev. 00, Dated: 04.01.2022 is for information only. Bidder to consider Specification No.: P-SPC-003, Rev. 00, Dated: 05.01.2022 (Standard specification for 3 layer polyethylene coating of line pipes) for all the testing, test frequency and acceptance criteria except the comments / clarification given in this comments sheet. Please confirm.	Bidder to consider ITP for testing requirements as well as follow specification where more clarity required in frequency and acceptance criteria and follow more stringent requirement out of two.

1. Bidder to submit signed and stamped copy of this Reply to Pre-Bid Queries along with Un-Price Bid .