



Energising Quality

## REPLIES TO BIDDER'S PRE-BID QUERIES DATED 20.05.2022

SUPPLY OF BARE & COATED PIPES  
FOR  
NORTH EAST GAS GRID PHASE-III OF IGGL, ASSAM

TENDER ID: VCS21000017

Tender No.: C2201052-VCS-IGGL-TENDER-001 Dtd 28.04.2022



Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
1	Clause No. D of Section I	5/273	CONTRACTUAL DELIVERY DATE Delivery within 60 weeks. (Progressively Lot Wise from beginning of 16th week and up to end of 60th week.) Lot-1: Week 16 - Week 26 Lot-2: Week 28 - Week 40 Lot-3: Week 50 - Week 60	Considering the lead time of 3 months for steel procurement and 3-4 weeks for transportation to north east region, we would request to amend the delivery schedule as follows; Lot-1: Week 24 - Week 34 Lot-2: Week 36 - Week 48 Lot-3: Week 58 - Week 68	Tender condition prevails
2	Clause 12.11.2. of ITB	56/273	12 months paid period @ Rs.10500/- (exclusive of GST) per day per dumpsite.	Considering the difficulties of maintaining the dumpsites at north east region, we would request to revise the dumpsite maintenance charges as follows; 12 months paid period @ Rs.15000/- (exclusive of GST) per day per dumpsite.	Tender condition prevails
3	Clause 4.1.2.1 of SCC	261/273	The lot wise delivery Schedule for each item shall be as per Section II of Commercial Tender. In case bidder submits bid for part quantities or get award for part quantity of item, the item-wise per lot delivery schedule shall be proportional to quoted/ awarded quantities per dumpsite.	Kindly delete the clause. We understand that part order is not applicable for said procurement.	Refer Corrigendum #1
4	Clause 1.1 ,Scope of Supply	13	Scope of Supply of item A1	Item A1 has huge quantity of 272120 meters which is to be supplied by the single bidder and to be stored at 6 dumpsites. We are requesting to split and evaluate the quantity of item A1 into 2 or 3 parts with each winner maintaining 2 or 3 respective dumpsites. Splitting the quantity will ensure the timely delivery which is also in the interest of IGGL.	Lot-wise quantities for Item A1 has been revised. There shall be no change in Lotwise Quantities for Item A2 & A3 and in evaluation methodology; Please refer Attachment 1 provided against Sr no 3 . in Corrigendum #1
5	Clause 1.3 of Section II	15/273	Locations of Storage yard/Dumpsite/Warehouse along with Lot size	Bidder would like to mention that for the item no. A2 we have to maintain dumpsites at 5 different locations. Although the quantity is only 2300 MT and for such a small quantity it is not viable to maintain so many dumpsites. Therefore we request you to kindly allocate all the dumpsite related activities to the bidder of item no. A1 and accordingly we will hand over the pipes to them. It will save the time and cost of the project.  Please confirm.	Tender condition prevails
6	Clause 1.1 of Section II	13/273	Brief scopes of supply	Quantity mentioned against ITEM NO. A1 is very high and looking to the delivery period and scope of supply it will tough to execute the whole quantity. Therefore bidder request you to please bifurcate the quantity mentioned in the item no. A1 so that execution can be done smoothly.  Please confirm.	Refer reply under Sr. No. 4 above



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Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
7	Clause No. 16 of ITB	59/273	EMD	Bidder request you to please provide the draft of the BG for EMD along with the bank detail as same is missing from the tender.	Already shared vide Addendum#1 dated 06.05.2022
				Please furnish the detailed address of M/s IGGL for issuance of Earnest Money Deposit from the Bank.	The detailed address of IGGL is as given in Clause No. 2 (N) of IFB (Page No. 7) of Tender Documents
				For SFMS Advice below details are applicable for EMD : IGGL's Bank a/c details:  Bank Name : State Bank of India Account Holder's Name: INDRADHANUSH GAS GRID LIMITED(IGGL) Account No. : CURRENT A/C NO. 37967639273 IFSC Code: SBIN0003030 BRANCH : DISPUR  Please confirm.	IGGL's bank details are correct.
8	Clause 1.2 of Section II	15/273	DELIVERY SCHEDULE	If a bidder wishes to participate for both Line Items A1 and A2, can they, after winning the order, maintain 1 dumpsite at Dimapur and Silliguri for both the line items i.e. A1 and A2 and store and manage the pipes at one dumpsite only.	Bidder's proposal is acceptable, however qualified bidder shall meet individual requirement for each dumpsite mentioned in Tender like Equipment requirement, manpower requirement etc and other condition of contract for each dumpsite
9	-	-	-	Storage yards shall have round-the-clock security arrangements, moreover a person shall be available at all times at the storage yards for the issue of pipes any time. Please confirm the same	Tender condition prevails
				Bidder hereby put forth that Dumpsite locations i.e DS 2A, DS 2B, DS 3, DS 3B, DS 4A, DS 4B, DS 5A, DS 5B, DS 6A & DS 6B is in the same city we request you to please reduce to one location in one city because of difficulty of land scarcity in these states required for dumpsite maintenances	Tender condition prevails
				We request you to please provide us the detailed address of dumpsite locations along with detailed Chain-age diagram as this will have to attract commercial implications and hence must be defined in the tender.	Tender condition prevails
				Since the location of stockyard of A1 & A2 are the same in view of this we request IGGL/VCS to remove the scope of the Dumpsite from the successful bidder of A2 as 2300 MT pipes are to be distributed in 5 Locations.	Tender condition prevails
				Also, since evaluation is item-wise basis because of this if A1 & A2 are awarded to the same bidder, then there will not be any need to put separate dumpsite for these line items. Please confirm.	Tender condition prevails



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Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
10	Clause No. 1.3 of Section II	16 of 273	Proposed locations of Storage yard/Dumpsite/Warehouse	We wish to bring it to your notice that commencement of delivery for Lot 1 Quantities are from 16th week from date of FOA 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 with dumpsite maintenance.  In the view of above we propose to deliver Pipes as per below schedule :  Starting from the 20th week and ending up to the 26th week from the date of FOA with the continuous delivery period during this period.	Tender condition prevails
				If our above proposal is not accepted we propose that instead of item-wise evaluation we propose Dumpsite-wise evaluation and award.	Tender condition prevails
				We also propose to split item no A1 between two bidders considering the huge quantity in this item this will also help IGGL and Bidder to meet the project delivery requirements against the subject tender inquiry as due to current steel market prevailing situation, getting steel delivery is becoming a big challenge.	Tender condition prevails
11	FORMAT – 10D(ERW)	159 of 273	Format 10 D (ERW) & Format 13 C (3LPE Coating)	We understand that the capacity assessment for Bare Pipes and Coating on Bare Pipes are not applicable for those bidders who are not opting Pipe Mill and Coating Plant Demo. Please confirm.	Bidder`s understanding is correct.
12	Clause 9.5 of Section II	29 of 273	The quantity for ordering of an item may be divided on more than one bidder for the item and therefore Bidder's quoted price for these items shall be valid for part quantity also.	Please confirm whether splitting is not applicable for said procurement.	Tender condition prevails
13	Payment Terms	270 of 273	Maintenance of Warehouse/ Dumpsites (After free period)  After expiry of the free period of 6 Month from date of receipt of last pipe or the contractual delivery date, whichever is later, Pipe Manufacturer will be entitled for payment of Rs.10,500/-(exclusive of GST) per day for storage and preservation of coated line pipes at warehouse for 18 months (12 months paid period + 6 months extended paid period) which shall be payable on monthly basis. GST shall be payable extra at actual against invoice. Statutory variation on account of GST shall be payable as per tender document.	We propose to consider Dumpsite charges per day per stockpile of INR 17,500+ GST considering the rising cost after free period also land cost in North East States. Note: Recently NRL executed the projects of with a Approx. Quantity of 3.5 Lakh MT with the same cost in these states after expiry of the free period	Tender condition prevails
				We propose Dump site management / maintenance period to start from the date of receipt of first pipe per lot basis at Dumpsite instead of Last Pipe. Please Confirm.	Tender condition prevails
14	Clause 2 of Section I	6 of 273	Reverse Auction Fees (Non Refundable, to Tender Wizard)  INR 3500 + GST @18% = INR 4130/- per Auction	The total Reverse Auction fee for the tender is INR 12,390/- inclusive of GST which is too High for tender. In other Oil & Gas tenders, there are no such fees are charged for participation in the Reverse Auction.  Hence we request you to either remove the RA Participation fees or reduce the amount to around INR 1000/- which is more acceptable.  Further to above please guide us when we have to pay these fees.	The RA/Tender fee cannot be changed and same should be submitted inline with Tender conditions.  Bidder to pay registration charges while submitting the bid and RA Charges needs to be paid at the time of participation in RA.



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Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
15	Clause 19 of SCC	265 of 273	Repeat Order In partial modification to GCC clause no. 40, Repeat Order shall be applicable upto 20% of the ordered quantity within contractual delivery period or 03 (three) months from the date of Fax of acceptance, whichever is earlier.	Please note that it will not be commercially viable to procure steel in small quantity (A2 & A3) within contractual delivery period or three months from the date FOA. We request you to limit repeat order within 45 days instead of contractual delivery period or three months of date of issue of FOA to maximum 20 % of the ordered quantity so that additional steel quantity can be manufactured with original quantity.	Tender condition prevails
16	Clause 33 of ITB	65 of 273	Quantity Variation Where nature of items is such that the items cannot be supplied in exact quantity of the Purchase Order as in case of cables/ steel/ chemicals etc., quantity tolerance upto $\pm 5\%$ may be allowed, if there is no specific quantity variation/tolerance criteria in SCC. For such tolerance, separate amendment to Purchase Order would not be necessary.	We understand that the subject clause is not applicable for the said procurement. Please Confirm.  We also understand that there is no variation in the said tender. Please Confirm.	Refer Lotwise delivery schedule attached as Annexure-I to SCC
17	Clause 12 of ITB	54 of 273	Variation on custom duty (on Built-in Import content) is not applicable/ payable.	We understand that CIF (Built-In Import Content) is not applicable for subject tender. Please confirm.	Confirmed
18	Clause 1.1 of Section II	13 of 273	Coated Line Pipes Item No-A1: Qty: 272120 Mtrs Size: 323.9 X 7.14 mm, API-5L Gr.X-70, PSL-2	This is huge quantity and as per tender terms and conditions bidder has to quote for full quantity else bid will be rejected; please note that it would be difficult for one bidder to supply entire quantity on time. If you split this quantity in three equal parts, you will get more qualified bidders for this bid, competitive prices and your risk of delivery will also be minimize. We request you to split the Qty of item A1 in three parts.	Tender condition prevails
19	Clause 1.2 of Section II	15 of 273	Delivery Period for Coated Pipes Within 60 weeks progressively from beginning of 16th weeks for coated Pipes in three lots and for Bare Pipes within 40 week and beginning from 16th Week Ref: IFB Clause no. Delivery Schedule	Beginning of delivery from 16th week would be difficult, we request you to keep beginning of delivery from 20th Week. Secondly Quantity of 3rd Lot for Items A1 & A2 is very small kindly keep delivery in two lots only.	Tender condition prevails
20	Clause 1.3 of Section II	15 of 273	Dumpsites for item A1 & A2 DS-1 : Dimapur (Nagaland) DS-2A & DS-2B: Zakhma (Nagaland) DS-3A & DS-3B: Senapati (Manipur) DS-4A & DS-4B: Damdim (West Bengal) DS-5A & DS-5B: Lava (West Bengal) DS-6A & DS-6B: Marming (Sikkim)	As per tender documents, all tender Qty will be delivered at six different location. Please note that Qty for Item No.A2 is not sufficient to main yard at six different locations i.e DS-2B, DS-3B, Ds-4B, DS-5B, DS-6B and would not feasible also. For item A2, kindly keep one yard location only or keep yard management & maintenance in the scope of the bidder's who awarded A1 item.	Tender condition prevails
21	Clause 9.2.2 of Section II	27 of 273	Quoted rate for Item No. A3, Ref: Clause no. 9.2.2 Evaluated Prices	Since evaluation of A3 item will include Ex. works item price plus plant storage charges for 06 month Plus GST on Ex works price & plant storage charges.  Kindly clarify what will be the bidder's scope rated to this item after six months:  In case if it's need to transport to your given location by bidder then how will be decided the transport cost. Please clarify?	Transportation of Pipe is not in Bidder's scope.
22	Clause 12.11.1. of ITB	56/273	Per days Dumpsite Maintenance Charges (Rs.10500 + GST) beyond Free period of 06 months. Ref: Instructions to bidders Clause No. 12.11.2	This is not sufficient amount to maintain monthly expenses for Dumpsite Management, Request to revise monthly maintenance charges of dumpsite as Rs.15000 + GST	Tender condition prevails



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Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply				
23	Clause No. 1.1 of Section II	13 of 273	Scope of Supply of item A1	Item A1 has huge quantity of 272120 meters which is to be supplied by the single bidder and to be stored at 6 dumpsites. We are requesting to split and evaluate the quantity of item A1 into 2 or 3 parts with each winner maintaining 2 or 3 respective dumpsites. Splitting the quantity will ensure the timely delivery which is also in the interest of IGGL.	Tender condition prevails				
24	Tolerance of straightness: VPC-SS-PP-2008 Cl. No. 9.11.3.4	-	b) The local deviation from straight line, as depicted in Figure 2 of API Spec 5L, in 1.0 m (3.0 ft) portion at each pipe end shall be $\leq 3.0$ mm (0.120 in).	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 $\leq 3.2$ mm."	Local deviation from straight line is acceptable as per the latest edition of API 5L				
25	Pipe markings: VPC-SS-PP-2008 Cl. No. 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.	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 condition prevails				
26	Raw material test: 4.3.1. of VPC-SS-PL-002 Rev.03	-	Particle size	We do not have facility for particle size measurement. Particle size shall be mentioned in manufacturer certificate.	Test certificate by manufacturer for particle size is acceptable				
27	Test certificate: 5.4.3 of VPC-SS-PL-002 Rev.03	-	$\geq 30$ at 2100C	We consider that it was a typo in temperature and it shall be read as $\geq 30$ at 210°C as per table 5 of ISO 21809-1:2018	Temperature mentioned in Clause No 5.4.3 of VPC-SS-PL-002 Rev.03, may be read as 210°C in place of 2100C				
28	Unit : (Sr no. 4 & 5 )Table 7 of VPC-SS-PL-002 Rev.03	-	<table border="1"> <tr> <td>4</td> <td>Indentation of PE top coat @ 230C +/- 20C @ 800C +/- 20C</td> </tr> <tr> <td>5</td> <td>Strain at Break of PE Top Coat at 230C +/- 30C</td> </tr> </table>	4	Indentation of PE top coat @ 230C +/- 20C @ 800C +/- 20C	5	Strain at Break of PE Top Coat at 230C +/- 30C	We consider that it is a typo error in temperature unit at various places like cl. no. 8.5.1.8, 8.5.1.9 & table 11 so it shall be read as a °C.	Temperature mentioned in Clause (Sr no. 4 & 5 )Table 7 of VPC-SS-PL-002 Rev.03 may be read as under: Indentation of PE top coat may be read as @23°C +/- 2°C in place of @230C +/- 20C and Strain at Break of PE Top coat at 23°C +/- 3°C in place of 230C +/- 30C
4	Indentation of PE top coat @ 230C +/- 20C @ 800C +/- 20C								
5	Strain at Break of PE Top Coat at 230C +/- 30C								
29	Recycling of PQT pipes: Cl no. 8.2.4 of VPC-SS-PP-2003 Rev. 03	-	On successful completion of PQT, coating of all seven pipes shall be removed completely and recoated as per approved coating procedure at Applicator's expense. Remaining 8 (eight) pipes will be accepted by Owner provided they meet the requirements of this specification and need not be stripped and re-cycled.	We proposed that all the pipes including 5 PQT pipes shall be considered acceptable provided they meet the requirements of this specification and need not be stripped and re-cycled. Please confirm	Tender condition prevails				
30	Phosphoric Acid Wash & Chromate Treatment: 7.2 of of VPC-SS-PL-002 Rev.03	-	Chemical pre-treatment with phosphoric acid solution (if specified):	Please confirm whether phosphoric acid wash & chromate treatment is applicable for this project or not.	Tender condition prevails				
31	Phosphoric Acid Wash & Chromate Treatment: 8.3.4.1 of of VPC-SS-PP-2003 Rev. 03	-	Phosphoric Acid Wash followed by De-ionized Water Wash (If specified):	Please confirm whether phosphoric acid wash & chromate treatment is applicable for this project or not.	Tender condition prevails				
32	Phosphoric Acid Wash & Chromate Treatment: 7.3 of of VPC-SS-PP-2003 Rev. 03	-	Chemical Pre-treatment with Chromate Solution (If specified):	Please confirm whether phosphoric acid wash & chromate treatment is applicable for this project or not.	Tender condition prevails				



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33	Phosphoric Acid Wash & Chromate Treatment: 8.3.4.2 of VPC-SS-PP-2003 Rev. 03	-	Chromate Treatment (if specified):	Please confirm whether phosphoric acid wash & chromate treatment is applicable for this project or not.	Tender condition prevails															
34	Impact test temperature: 8.5.2.5 of VPC-SS-PP-2003 Rev. 03	-	Three test pipes shall be selected for impact strength test as per Annex E of ISO 21809-1 at 23±3°C. Minimum thirty (30) impacts (with impact energy min. 7J/mm)	It is practically difficult to perform impact test at 23±3°C along the pipe length in the plant. We propose that we can perform the test at ambient condition.	Tender condition prevails															
35	Impact test temperature: Table 12 of VPC-SS-PP-2003 Rev. 03	-	<table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Properties</th> <th>Test Method</th> <th>Requirements</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>4.7</td> <td>Impact Strength @ 23±3°C, 30 impacts</td> <td>ISO 21809-1 Annex E, Clause 8.6.2.5.</td> <td>&gt;7J/mm. No holiday on impact area</td> <td>3 Pipes</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>2 Pipes/shift</td> </tr> </tbody> </table>			Sl. No.	Properties	Test Method	Requirements	Frequency	4.7	Impact Strength @ 23±3°C, 30 impacts	ISO 21809-1 Annex E, Clause 8.6.2.5.	>7J/mm. No holiday on impact area	3 Pipes					2 Pipes/shift
Sl. No.	Properties	Test Method	Requirements	Frequency																
4.7	Impact Strength @ 23±3°C, 30 impacts	ISO 21809-1 Annex E, Clause 8.6.2.5.	>7J/mm. No holiday on impact area	3 Pipes																
				2 Pipes/shift																
36	C.D. test: 8.5.2.9 of VPC-SS-PP-2003 Rev. 03	-	The following CD tests shall be carried out on samples selected from 1 PQT test pipe in accordance with Annex H of ISO 21809-1: <ul style="list-style-type: none"> <li>65±3°C/24h/-3.38V;</li> <li>23±3°C/28d/-1.38V;</li> <li>80 ±3°C/28d/-1.38 V.</li> </ul>	We propose that we will perform c.d. test on 3 sample for 65±3°C/24h/-3.38V, 1 sample for 23±3°C/28d/-1.38V; and 1 sample 80 ±3°C/28d/-1.38 V in PQT.	Tender condition prevails															
37	Bond Strength ( Peel Test): Table 12 of VPC-SS-PP-2003 Rev. 03	-	<table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Properties</th> <th>Test Method</th> <th>Requirements</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>4.6</td> <td>Peel Strength of 3LPE Coating at 23°C +/-3°C at 80°C+/-3°C</td> <td>ISO 21809-1 Annex C2, Clause 8.6.2.4.</td> <td>≥18 N/mm 23±3°C, ≥5 N/mm 80±3°C, (No disbonding between steel &amp; epoxy)</td> <td>5 pipes x 3 tests (@ both ends &amp; middle)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>2 h for pipe ends (cutback portion) &amp; 4 h for middle of pipe</td> </tr> </tbody> </table>	Sl. No.	Properties	Test Method	Requirements	Frequency	4.6	Peel Strength of 3LPE Coating at 23°C +/-3°C at 80°C+/-3°C	ISO 21809-1 Annex C2, Clause 8.6.2.4.	≥18 N/mm 23±3°C, ≥5 N/mm 80±3°C, (No disbonding between steel & epoxy)	5 pipes x 3 tests (@ both ends & middle)					2 h for pipe ends (cutback portion) & 4 h for middle of pipe	We propose that for middle peel test requirement, the peel test shall be performed at maximum feasible distance from pipe end. It is not possible to maintain the specified test temperature at the middle of the pipe due to size constraint and safety issue.  Location to be decided / establish in PQT by customer / their representative.	Tender condition prevails
Sl. No.	Properties	Test Method	Requirements	Frequency																
4.6	Peel Strength of 3LPE Coating at 23°C +/-3°C at 80°C+/-3°C	ISO 21809-1 Annex C2, Clause 8.6.2.4.	≥18 N/mm 23±3°C, ≥5 N/mm 80±3°C, (No disbonding between steel & epoxy)	5 pipes x 3 tests (@ both ends & middle)																
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38	Specific electrical coating resistivity: Table 12 of VPC-SS-PP-2003 Rev. 03	-	<table border="1"> <thead> <tr> <th rowspan="2">Sl. No.</th> <th rowspan="2">Properties</th> <th rowspan="2">Test Method</th> <th rowspan="2">Requirements</th> <th colspan="2">Frequency</th> </tr> <tr> <th>During PQT</th> <th>During Production</th> </tr> </thead> <tbody> <tr> <td></td> <td>Specific electrical coating resistivity (Ω.cm)</td> <td>ASTM G107</td> <td>≥1000 Ω.cm</td> <td>Once</td> <td>Once</td> </tr> </tbody> </table>	Sl. No.	Properties	Test Method	Requirements	Frequency		During PQT	During Production		Specific electrical coating resistivity (Ω.cm)	ASTM G107	≥1000 Ω.cm	Once	Once	Since it is carried out by material manufacturer at interval of 3 year. We will provide raw material test certificate from material manufacturer in production as and when applicable.	Noted	
Sl. No.	Properties	Test Method	Requirements					Frequency												
				During PQT	During Production															
	Specific electrical coating resistivity (Ω.cm)	ASTM G107	≥1000 Ω.cm	Once	Once															
39	UV resistance and thermal ageing: Table 12 of VPC-SS-PP-2003 Rev. 03	-	<table border="1"> <thead> <tr> <th rowspan="2">Sl. No.</th> <th rowspan="2">Properties</th> <th rowspan="2">Test Method</th> <th rowspan="2">Requirements</th> <th colspan="2">Frequency</th> </tr> <tr> <th>During PQT</th> <th>During Production</th> </tr> </thead> <tbody> <tr> <td></td> <td>UV Resistance (ASTM G154)</td> <td>ASTM G154</td> <td>ASTM G154</td> <td>Once</td> <td>Once</td> </tr> </tbody> </table>	Sl. No.	Properties	Test Method	Requirements	Frequency		During PQT	During Production		UV Resistance (ASTM G154)	ASTM G154	ASTM G154	Once	Once			
Sl. No.	Properties	Test Method	Requirements					Frequency												
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	UV Resistance (ASTM G154)	ASTM G154	ASTM G154	Once	Once															
40	Tolerance for verification of digital thermometer and optical pyrometer: Cl no. 15 of VPC-SS-PP-2003 Rev. 03	-	<table border="1"> <thead> <tr> <th>Device Name</th> <th>Reference Clause No.</th> <th>Frequency of in-house Verification</th> <th>Tolerance</th> </tr> </thead> <tbody> <tr> <td>Digital Contact Thermometer</td> <td>7.4.1.5</td> <td>Twice / shift</td> <td>Standard value ± 2 %</td> </tr> <tr> <td>Optical Pyrometer</td> <td>7.4.1.5</td> <td>Twice / shift</td> <td>Standard value ± 2 %</td> </tr> </tbody> </table>	Device Name	Reference Clause No.	Frequency of in-house Verification	Tolerance	Digital Contact Thermometer	7.4.1.5	Twice / shift	Standard value ± 2 %	Optical Pyrometer	7.4.1.5	Twice / shift	Standard value ± 2 %	Mention tolerance for verification is to stringent for comply. Temperature measurement is continuous in coating so we propose that the tolerance shall be within ±3%.	Tender condition prevails			
Device Name	Reference Clause No.	Frequency of in-house Verification	Tolerance																	
Digital Contact Thermometer	7.4.1.5	Twice / shift	Standard value ± 2 %																	
Optical Pyrometer	7.4.1.5	Twice / shift	Standard value ± 2 %																	



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Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply								
41	Tolerance for verification of Holiday test voltage: Cl no. 15 of VPC-SS-PP-2003 Rev. 03	-	<table border="1"> <thead> <tr> <th>Device Name</th> <th>Reference Clause No.</th> <th>Frequency of in-house Verification</th> <th>Tolerance</th> </tr> </thead> <tbody> <tr> <td>Holiday Detector</td> <td>8.6.2.3.</td> <td>Every 4 hours</td> <td>Standard value <math>\pm 2\%</math></td> </tr> </tbody> </table>	Device Name	Reference Clause No.	Frequency of in-house Verification	Tolerance	Holiday Detector	8.6.2.3.	Every 4 hours	Standard value $\pm 2\%$	<p>This requirement is stringent for compliance. Practically it is not possible to set voltage within tolerance of 2% of 25KV (24.95 KV to 25.05 KV) in plant condition. We can comply voltage as per annex B of ISO 21809-1:2018 i.e. 25 kV <math>\pm</math> 2.5 kV or minimum 25 as per sl no. 4.5 of table 12.</p> <p>Please confirm</p>	Tender condition prevails
Device Name	Reference Clause No.	Frequency of in-house Verification	Tolerance										
Holiday Detector	8.6.2.3.	Every 4 hours	Standard value $\pm 2\%$										
42	Tolerance for verification of Holiday test voltage: Annexure-I of VPC-SS-PP-2003 Rev. 03	-	PE Compound (Manufacturer) HE 3450H (BOREALIS / BOROUGE)	We proposed that borouge has HE3450 grade which meet the technical specification requirement. Request to consider the HE3450H.	Tender condition prevails								
43	Tolerance for verification of Holiday test voltage: Cl no. 4 of VPC - SS - PP - 2047	-	Each pipeline shall be provided with an internal liquid epoxy coating by the Vendor. The internal coating shall be as per ISO 15741 - 2001 (E).	We understand that the internal coating shall be as per ISO 15741 latest editions.	Bidder's understanding is correct.								
44	PQT pipes: Cl no. 11 of C221052-00-PP-MR-2001	-	<p>Prior to start of production, Bidder shall, at his own cost and risk, carry out a trial "First Day Production Coating" to prove that his plants (machinery and manpower), materials and coating procedure shall result in a quality of end product conforming to the functional requirements and properties as stated in the relevant technical specifications, standards and material manufacturer's recommendations. At least 25 (twenty-five) test pipes shall be coated in accordance with the approved procedure and relevant standards.</p> <p>Company representative shall select test pipes at random out of the above mentioned 25 pipes.</p>	Please provide the nos. of pipe required for PQT testing out of 25 pipes for further compliance.	Tender condition prevails								
45	Cl. No. 9.11.3.3 of Tech. Spec. VPC-SS-PP-2008 Rev No : 02	-	All pipes shall be supplied with length between 11.5 m and 12.5 m. However, pipe with length between 10.0 m and 11.5 m can also be accepted for a maximum of 5% of the ordered quantity. Overall length tolerance shall be (-) Zero and (+) One pipe length to complete the ordered quantity. Table 12 of API Spec 5L stands deleted.	<p>As per rules and regulations of Road and Transport department (RTO). The pipe length above 12m is not allowed. Hence it should be allowed to supply the pipes in the range between 11.0m to 12.0m with average length 11.50m and for sample pipes maximum 5% of ordered qty. shall be 10.0m to 11.0m.</p> <p>Kindly confirm.</p>	Tender condition prevails								
46	Cl. No. 10.2.8.7 of Tech. Spec. VPC-SS-PP-2008 Rev No : 02	-	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	<p>We are using measuring instruments/equipment's calibrated from NABL accredited Laboratory. So We shall follow the API (46<sup>th</sup> edition) requirements regarding to comply the calibration &amp; verification frequency of instruments &amp; equipment.</p> <p>Kindly confirm</p>	Tender condition prevails								
47	Sr. No. 1.2 of ITP of HFW PIPES. VCS-ITP-PP-2016 Rev No : 04	-	WPS, PQR & WPQ.	MPS (Manufacturing Procedure Specification) & Welding Parameter Sheet shall be provided instead of WPS, PQR & WPQ as WPS/PQR is not applicable for HFW process. Kindly Confirm.	As per Tender condition & applicability in HFW process								
48	Cl. no. 26 & 27 of MR Doc No.: C221052-00-PP-MR-2001	-	Color bands of 50 mm width to be placed at both the ends, inside of Bare Pipes at a distance of 150 mm from the pipe ends and outside of 3LPE Coated Pipes at a Distance of 450 mm from the pipe ends. White Band marking inside for all the items.	Please provide the colour code for outside 3LPE coated pipes.	Colour band shall be provided to the successful Bidder (s)								



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## REPLIES TO BIDDER'S PRE-BID QUERIES DATED 20.05.2022

SUPPLY OF BARE & COATED PIPES  
FOR  
NORTH EAST GAS GRID PHASE-III OF IGGL, ASSAM

TENDER ID: VCS21000017

Tender No.: C2201052-VCS-IGGL-TENDER-001 Dtd 28.04.2022



Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
49	Cl. no. 3.4 of Doc No.: VPC-SS-PP-2003	-	Conveying of epoxy powder from storage room to fluidized bed shall be thru a suitably designed conveying system. Manual powder feeding shall not be permitted. Proper sieving system shall be available for both virgin and re-cycled powder. System for ratio control of virgin & re-cycled powder should be available.	We would like to clarify that we are using fluidized bed with maximum capacity of 200 kg and maintained it with maximum 25 kg of sealed epoxy powder box due to avoid of open. In between process storage temperature and relative humidity are maintained as per FBE powder manufactured recommendation. So, please allow such type Conveying of epoxy powder from storage room to fluidized bed.	Tender condition prevails
50	Cl. no. 3.7 of Doc No.: VPC-SS-PP-2003	-	The conductivity of DI (De-Ionized) water (if used) shall be less than 5 microsiemens/cm and rinse water pressure shall be minimum 1500 psi.	We would like to clarify that generally epoxy powder manufacture provides suggested application parameter with mentioned surfaces preparation requirements and required profile parameter in which mentioned high pressure water wash range minimum 1000 Psi . Therefore we will maintain minimum pressure 1000 PSI.	Tender condition prevails
51	Cl. no. 4.3 of Doc No.: VPC-SS-PP-2003	-	In addition to Manufacturer's certificate, the Applicator/ Contractor shall draw two samples per batch of epoxy, adhesive and polyethylene in the presence of Owner Representative and test for the following properties at the coating laboratory prior to its use in order to establish compliance with the manufacturer's test certificates. <b>Epoxy Powder:</b> <ul style="list-style-type: none"> <li>• Density</li> <li>• Gel Time</li> <li>• Particle size</li> <li>• Moisture content</li> <li>• Thermal characteristics (Tg1, Tg2 &amp; ΔH)</li> </ul>	We would like to intent that all specified test shall be carried out in our in house coating laboratory except of Particle size. The Particle size test shall be conducted in epoxy powder manufacturer lab and they provides test certificates, the same certificates will submitted to the client/ client's representative for review.  Please confirm.	Test certificate by manufacturer for particle size is acceptable
52	Cl. no. 7.1.2, 10.3 & Table 11 of Doc No.: VPC-SS-PP-2003	-	Any pipe having salt contamination exceeding 2µg/cm <sup>2</sup> shall be de-ionized water washed and then re-checked for salt contamination. In case, salt level is still greater than 2 µg/cm <sup>2</sup> , chemical pre-treatment of steel pipes after abrasive blasting using phosphoric acid wash, followed by high pressure water wash (>1500 psi) shall be carried out as per clause 7.2. Clause 7.2: Chemical pre-treatment with phosphoric acid solution (if specified): All pipes shall be provided chemical pre-treatment with phosphoric acid solution having concentration of 10% (+2%). Oakite 31 / 33 or equivalent shall be used to remove all soluble salts and other soluble contaminants. <b>Clause 10.3:</b> Depending on requirements, each pipe shall be subjected to Chemical Pre-treatment with Phosphoric Acid Solution followed by high pressure water rinse and / or Chromate Treatment in accordance with Clauses 7.2 & 7.3 of this specification. Treated pipe surface shall be inspected and tested in accordance with Table 11 in order to ensure . Characteristics of pipe surface prior to induction heating. <b>Table 11</b> — Requirements for Inspection of Chemical Pre-treatment (If specified):	Please confirm the chemical pretreatment with phosphoric acid wash followed by de-ionized water wash is applicable when salt contamination is exceeding 2µg/cm <sup>2</sup> .  Please also confirm the chromate treatment before FBE application is required or not.  Please confirm the both.	Tender condition prevails
53	Cl. no. 8.5.2.4 of Doc No.: VPC-SS-PP-2003	-	Five test pipes shall be selected for Peel strength tests as per Annex C (C2) of ISO21809 -1. On each of the selected pipes, three peel tests shall be performed for each specified temperature (23±3°C & 80±3°C), one at each end and one in the Middle of the pipe.	Bidder clarifies that peel test shall be carried out by spring loaded test assembly by manual peel tester machine i.e. Annex c (C1) of ISO 21809-1. Please confirm. We also want to clarify that middle peel test shall be carried out at maximum feasible distance from the pipe end due to constraint pipe size and safety point of view.  Please confirm.	Peel test by spring load test assembly by manual peel tester as per IS21809-1 is acceptable  for the rest query, Tender condition prevails



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Tender No.: C2201052-VCS-IGGL-TENDER-001 Dtd 28.04.2022



Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
54	Cl. no. 11.7 of Doc No.: VPC-SS-PP-2003	-	The coating pipe mill shall have internal tracking system for pipe traceability during regular coating to reduce manual interference. SAP base system is preferred.	We would like to clarify that we have using ERP based internal pipe tracking system. Hence, We shall maintain DATA in ERP system.	Noted
55	Cl. no. 12.5 of Doc No.: VPC-SS-PP-2003	-	Bare/coated pipes at all times shall be stacked completely clear from the ground, at least 500 mm, so that the bottom row of pipes remains free from any surface water.	Bidder clarifies that we shall maintain minimum 300 mm clearance between pipes and ground And the raw shall be made as in slope which will drain out of rain water & prevented of rain water collect inside the pipes.	Tender condition prevails
56	Cl. no. 15.0 of Doc No.: VPC-SS-PP-2003	-	INSPECTION, MEASURING AND TEST EQUIPMENT Device Name Clause No. Frequency of Tolerance in house Verification Digital Contact Thermometer 7.4.1.5 Twice / shift Standard value $\pm 2\%$ Optical 7.4.1.5 Twice / shift Standard value $\pm 2\%$ Pyrometer Holiday Detector 8.6.2.3. Every 4 hours Standard value $\pm 2\%$	We wish to clarify that the required in house verification of inspection, measuring and test equipment is narrow tolerance. Therefor We shall maintain the within the acceptance Criteria of calibration certificates which have calibrated from independent laboratory (specialized calibration agency) i.e. $\pm 3\%$ for digital contact thermometer & optical pyrometer and $\pm 5\%$ of holiday detector. Please confirm the same.	Tender condition prevails
57	Cl. no. 7.4.3 & 15.0 of Doc No.: VPC-SS-PP-2003	-	Device Name Clause No. Frequency of Tolerance in house Verification Optical 7.4.1.5 Twice / shift Standard Pyrometer value $\pm 2\%$ The extrusion temperature of polyethylene film 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 such types of instruments are calibrated in specialized equipment laboratory, and they provide us calibration certificates in which mentioned traceability of standard instrument & actual instruments including calibration parameters. Therefore, we are proposing review of outside lab calibration certificated.	Tender condition prevails
58	Cl. no. table 12 (4.11) of Doc No.: VPC-SS-PP-2003	-	Test : Cathodic disbondment Test condition & avg. disbondment radius @65 °C/ 24 h; -3.38 V : $\leq 4$ mm @23 °C/ 28 d; -1.38 V : $\leq 5$ mm @80 °C/ 28 d; -1.38 V : $\leq 15$ mm Frequency: one pipe in PQT & 1 Pipe / day for production in only @65 °C/ 24 h; -3.38 V : $\leq 4$ mm	Bidder would like to clarify that we are using digital operating set up of Cathodic disbondment test assembly in which the test voltage set in only two option i.e. -1.5V or -3.5V. Therefore we would like to propose that we shall maintain test voltage and acceptance disbondment criteria as per ISO 21809-1: 2011. @65 °C/ 24 h; -3.50 V : $\leq 7$ mm @23 °C/ 28 d; -1.50 V : $\leq 7$ mm @80 °C/ 28 d; -1.50 V : $\leq 15$ mm	Tender condition prevails
59	Cl. no. 16 of MR Doc No.: C221052-00-PP-MR-2001	-	Bidder shall inspect of all coated line pipes in presence of Owner representative while handing over of pipes. Holiday inspection of coated pipe shall be carried out by bidder while handing over of pipes.	Bidder shall visually inspect all the coated pipes at presence of owner representative while handing over of pipe. In case any pipes showing coating defects/damaged due to handling & transportation shall be considered for repair and that will carried out within acceptance limit of 3LPE coating specification & approved procedure. After repaired of pipes (if any) shall be checked by holiday detector of 100% surfaces are of the pipes. Hence, Please avoid repetition of High voltage holiday test in visually ok pipes.	Tender condition prevails
60	Cl. no. 17 of MR Doc No.: C221052-00-PP-MR-2001	-	Pipe Internal Diameter inspection by Pull through (95% of ID) shall be carried out by bidder during handling over pipes to owner.	Bidder internal to clarify that pull through test (95% of ID) shall be carried out on only damage pipes and randomly selected pipes.	Noted



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Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
61	Cl. No. 5.1 of Spec. No.: VPC-SS-PP-2047	-	The coating material shall typically be two-pack epoxy paint. It shall not contain any substances which will be released from the paint film after it has cured and are proven to be detrimental to the operation of the pipeline and the quality of the gas. The typical operating-temperature range for this type of coating is between -20 °C and 110°C.	Please provide approved vendor list; if any. However, We propose following listed materials for internal coating confirming to ISO 15741: 2016 SCOTCHKOTE EP 2326HF / EP 2306 HF (3M) Pipeclad Flowliner 930R HS / UHS (Valspar) Hempel HS GAS PIPE COATING 87830 (Hempel) Intergard 272/2272 (Akzonobel)	Material as proposed by bidder shall be takeup for approval post award of order.
62	DUMPSITE	-	Bidder shall inspect of all coated line pipes in presence of Owner representative while handing over of pipes. Holiday inspection of coated pipe shall be carried out by bidder while handing over of pipes.	Bidder would like to mention that for the item no. A2 we have to maintain dumpsites at 5 different locations. Although the quantity is only 2300 MT and for such a small quantity it is not viable to maintain so many dumpsites. Therefore we request you to kindly allocate all the dumpsite related activities to the bidder of item no. A1 and accordingly we will hand over the pipes to them. It will save the time and cost of the project. Please confirm.	Tender condition prevails
63	BRIEF SCOPES OF SUPPLY	-	Brief scopes of supply	Quantity mentioned against ITEM NO. A1 is very high and looking to the delivery period and scope of supply it will tough to execute the whole quantity. Therefore bidder request you to please bifurcate the quantity mentioned in the item no. A1 so that execution can be done smoothly. Please confirm.	Tender condition prevails
64	EMD	-	EMD	Bidder request you to please provide the draft of the BG for EMD along with the bank detail as same is missing from the tender.	Already shared vide Addendum#1 dated 06.05.2022, IGGL Bank details are given in Clause No. 13.7 & 13.8 of ITB
65	Tensile Properties : C2201052-VCS-IGGL-TENDER-001, Cl: 9.3	-	The finished pipe (after all heat treatment an expansion or sizing operations) shall conform to the requirements of Table 3B of API Spec. 5L and as modified herein. The actual yield strength shall be as close as possible to the specified minimum yield strength (SMYS) but in no case it shall exceed the limits specified here under :  <u>API Spec. 5L Grade Permissible in excess of SMYS, Mpa (PSI)</u> X-65 to X70                      120 (17400)	TSL requested kindly allow Tensile Properties as per API 5L 46th edition.	Tender condition prevails
66	Tensile Properties : C2201052-VCS-IGGL-TENDER-001, Cl: 9.3.2	-	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	TSL requested kindly allow ratio of body yield strength and body tensile strength of each test pipe as per API 5L 46th edition.	Tender condition prevails
67	Minimum Avg. Length : C2201052-VCS-IGGL-TENDER-001, Cl: 9.11.3.3	-	All pipes shall be supplied with length between 11.5 m and 12.5 m. However pipe with length between 10.0 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	TSL understanding The definition of average length is applicable for 95 % of order quantity & 5 % supplies will be from 10.5 mtr to 11.50mtr.  However TSL requesting you that the minimum average length should be 11.5 meter.	Tender condition prevails
68	Bevel Protectors: C2201052-VCS-IGGL-TENDER-001, Cl: 9.12.5.7	-	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.	Due to the both plant is in same campus , Bvevl proctracor will be placed after 3LP coating	Tender condition prevails
69	Hydrostatic Test Pressure: C2201052-VCS-IGGL-TENDER-001, Cl: 10.2.6.2	-	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 record shall be maintained. Calibration records shall be furnished to purchaser's Representative on request.	Calibration of pressure gauge by dead-weight tester on weekly basis. Please confirm.	Tender condition prevails



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Tender No.: C2201052-VCS-IGGL-TENDER-001 Dtd 28.04.2022



Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
70	Pipe markings: C2201052-VCS-IGGL-TENDER-001, Cl: 11.2.4	-	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.	Please confirm Color Code.	Colour band shall be provided to the successful Bidder (s)
71	Pipe Marking: C2201052-VCS-IGGL-TENDER-001, Cl: 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.	We are doing stencilling by paint at a distance of 150 mm from pipe end. And also for color code band marking at a distance of 150 mm, which may overlap with stencil marking. So It is requested, kindly allow for color code band marking at a distance of 50mm from pipe at inside of the pipe for 10" and above.	Tender condition prevails
72	Ultrasonic and Electromagnetic Inspection Reference Standards: C2201052-VCS-IGGL-TENDER-001, Cl: 9.8.5.2	-	The reference (calibration) standard shall have the same specified diameter and thickness as the product being inspected and shall be of sufficient length to permit calibration of ultrasonic inspection equipment at the speed to be used in production. The reference standard shall also be of the same material type and have the same surface finish and heat treatment as the product to be inspected. It shall be free from discontinuities or other conditions producing indications that may interfere with detection of the reference reflectors. The reference standard shall contain notches (N5 or N10) or radially drilled holes (3.2mm).	Please conform the reference detection of Weld detection will be N5 notch of N 10	Tender condition prevails
73	On Extruded Adhesive film of 3LPE coating: Doc no. VPS-SS-PL-2003 Rev.03 dated. 24.01.2022,	-	Strain at Break, Vicat Softening Temperature, Stress at Yield	TSL would like to inform that following tests are conducted by Raw material manufacture, hence we will provide RMTC for review and acceptance.	Noted
74	On HDPE Top Coat layer and 3LPE coating: Table 6: Doc no. VPS-SS-PL-2003 Rev.03 dated. 24.01.2022	-	1.Indentation of PE top coat @ 230C+/-20C @800C+/-20C 2.Strain at Break of PE Top Coat at 230C +/-30C	TSL will under stand that there is typo error, correct value is °C instead of 0C.	Noted
75	On HDPE Top Coat layer and 3LPE coating : Table 7: Doc no. VPS-SS-PL-2003 Rev.03 dated. 24.01.2022	-	Sr no.10.Specific Electrical Coating Resistance (23 °C ± 2 °C)	TSL would like to inform that, This is long duration test and it will be performed by the material manufacturer and report shall be submitted for review and acceptance.	Noted
76	Degree of cure : 5.4.4 Table 5 Sr. No. 02: Doc no. VPS-SS-PL-2003 Rev.03 dated. 24.01.2022	-	ΔTg Requirement is +3/-3 °C	TSL would like to inform that Degree of cure requirement i.e. ΔTg = +3/-2°C specified in old version of CSA Z245.20 but in latest edition of CSA Z245.20 requirement is ≤ 5°C .TSL will be follow latest edition of specification.	Tender condition prevails
77	Soluble salt after blasting: Clause :7.1.12 : Doc no. VPS-SS-PL-2003 Rev.03 dated. 24.01.2022	-	The acceptance criteria shall be 20 mg/m <sup>2</sup> or 2 g/cm <sup>2</sup> (max).	TSL will understand that test value is 2 µg/cm <sup>2</sup> .	Acceptance criteria of Soluble salt after blasting is 20 mg/m <sup>2</sup> or 2 µg/cm <sup>2</sup> (max).
78	Soluble salt after blasting: Clause :7.1.12 : Doc no. VPS-SS-PL-2003 Rev.03 dated. 24.01.2022	-	One test shall be carried out at each end of each pipe using salt meter	TSL would like to inform that, All pipe shall be provided chemical pretreatment with phosphoric acid for removal of salt contamination from the pipe surface. Hence, We propose that test shall be conduct in 1 in 10 pipes.	Tender condition prevails



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Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
79	Temperature of the pipe surface: Clause :7.4.1 : Doc no. VPS-SS-PL-2003 Rev.03 dated. 24.01.2022	-	Temperature of the pipe surface shall be continuously monitored & recorded by using suitable instruments such as infrared sensors, contact thermometers, thermocouples etc.	TSL will propose that continuously monitoring facility is available and recording a temperature in logbook at regular interval.	Tender condition prevails
80	Calibration of Temperature measuring & monitoring equipment : Clause :7.4.1 : Doc no. VPS-SS-PL-2003 Rev.03 dated. 24.01.2022	-	Temperature measuring & monitoring equipment shall be calibrated twice every shift and/or as per company representative's instruction	Once in year we are doing the calibration of all Temperature measuring instruments by external calibration agency and calibration certificate shall be provided to you for review and acceptance. PI confirm.	Agreed
81	Calibration of Extrusion temperature equipment: Clause :7.4.3 : Doc no. VPS-SS-PL-2003 Rev.03 dated. 24.01.2022	-	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.	TSL Would propose that continuously monitoring facility is available and recording a temperature in logbook at regular interval. The instruments use for PE and adhesive shall be calibrate in specialized equipment outside laboratory so we proposed review of outside lab calibration certificate.	Tender condition prevails
82	Air pressure in epoxy system: Clause :7.4.2.6 : Doc no. VPS-SS-PL-2003 Rev.03 dated. 24.01.2022	-	Air pressure in the epoxy spray guns shall be controlled, continuously monitored and recorded at least four times per working shift (maximum 12 hours).	TSL propose to that air pressure in epoxy spray guns shall be monitored continuously & recorded in log book at a frequency of once per hour during the regular production.	Tender condition prevails
83	Impact Test:: Clause :8.5.1.9 : Doc no. VPS-SS-PL-2003 Rev.03 dated. 24.01.2022	-	1.5 J Impact test at 00C shall be conducted on ring specimen obtained from epoxy coated pipe section of two pipes	TSL would like to inform that following test is conducted by Raw material manufacture, hence we will provide RMTC for review and acceptance.	Tender condition prevails
84	UV Ageing Test: Clause :8.5.2.16.1 : Doc no. VPS-SS-PL-2003 Rev.03 dated. 24.01.2022	-	The followings long term test for extruded PE top material shall be conducted in accordance with Annex G of ISO 21809-1:	TSL would like to inform that following test is conducted by Raw material manufacture, hence we will provide RMTC for review and acceptance.	Agreed
85	Thermal Ageing Test: Clause :8.5.2.16.2 : Doc no. VPS-SS-PL-2003 Rev.03 dated. 24.01.2022	-	The followings long term test for extruded PE top material shall be conducted in accordance with Annex G of ISO 21809-1:	TSL would like to inform that following test is conducted by Raw material manufacture, hence we will provide RMTC for review and acceptance.	Agreed
86	Doc no. VPS-SS-PL-2003 Rev.03 dated. 24.01.2022	-	0C	TSL would like to inform that many of the pages there is mentioned 0C in temperature requirements. TSL will under stand that there is typo error, correct value is °C instead of 0C.	Agreed
87	INSPECTION, MEASURING AND TEST EQUIPMENT:: Clause :15 : Doc no. VPS-SS-PL-2003 Rev.03 dated. 24.01.2022	-	Optical Pyrometer	Once in year we are doing the calibration of all Temperature measuring instruments by external calibration agency and calibration certificate shall be provided to you for review and acceptance. PI confirm.	Agreed



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Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
88	Qualification certificate: Clause :5.7 : Doc no. VPC – SS – PP - 2047 Rev.00 dated. 22.02.2022	-	Table 2 – Minimum information to be included in qualification certificate	TSL would like to inform that, Minimum information to be provided in qualification certificate by Manufacturer should be once per grade.	Agreed
89	II: 1.2 DELIVERY SCHEDULE	-	Combining the Dumpsites for A1 and A2	If a bidder wishes to participate for both Line Items A1 and A2, can they, after winning the order, maintain 1 dumpsite at Dimapur and Silliguri for both the line items i.e. A1 and A2 and store and manage the pipes at one dumpsite only.	Tender condition prevails
90	VII	-	Storage yards shall have round-the-clock security arrangements, moreover a person shall be available at all times at the storage yards for the issue of pipes any time	Please confirm on the same	Tender condition prevails
91	Coated Line Pipes	-	Item No-A1: Qty: 272120 Mtrs, Size: 323.9 X 7.14 mm, API-5L Gr.X-70, PSL-2	This is huge quantity and as per tender terms and conditions bidder has to quote for full quantity else bid will be rejected; please note that it would be difficult for one bidder to supply entire quantity on time. If you split this quantity in three equal parts, you will get more qualified bidders for this bid, competitive prices and your risk of delivery will also be minimize. We request you to split the Qty of item A1 in three parts.	Please refer Corrigendum #1.
92	Delivery Schedule : IFB Clause no 1.2	-	Delivery Period for Coated Pipes Within 60 weeks progressively from beginning of 16th weeks for coated Pipes in three lots and for Bare Pipes within 40 week and beginning from 16th Week	Beginning of delivery from 16 <sup>th</sup> week would be difficult, we request you to keep beginning of delivery from 20 <sup>th</sup> Week. Secondly Quantity of 3rd Lot for Items A1 & A2 is very small kindly keep delivery in two lots only.	Tender condition prevails
93	Dumpsites : Item A1 & A2	-	DS-1 : Dimapur (Nagaland) DS-2A & DS-2B: Zakhma (Nagaland) DS-3A & DS-3B: Senapati (Manipur) DS-4A & DS-4B: Damdim (West Bengal) DS-5A & DS-5B: Lava (West Bengal) DS-6A & DS-6B: Marming (Sikkim)	As per tender documents, all tender Qty will be delivered at six different location. Please note that Qty for Item No.A2 is not sufficient to main yard at six different locations i.e DS-2B, DS-3B, Ds-4B, DS-5B, DS-6B and would not feasible also. For item A2, kindly keep one yard location only or keep yard management & maintenance in the scope of the bidder's who awarded A1 item.	Tender condition prevails
94	Evaluated Prices: 9.2.2	-	Quoted rate for Item No. A3	Since evaluation of A3 item will include Ex. works item price plus plant storage charges for 06 month Plus GST on Ex works price & plant storage charges. Kindly clarify what will be the bidder's scope rated to this item after six months: In case if it's need to transport to your given location by bidder then how will be decided the transport cost. Please clarify?	Transportation of Pipe is not in Bidder's scope.
95	BEC: annexure-IV to Section-II, Vol-I of II	-	Authentication of documents to be submitted in support of BEC	In January-2022 we got verified Technical BEC documents by BV (TPIA) for EIL-GAIL Tender for MNJPL Pipes Line Project. Tender Item details: ITEM: ERW Line Pipes with 3LPE External & Epoxy internal Coating. Size: 18" X 8.20 mm , X-70, PSL-2, Qty: 516 KM Size: 18" X 9.70 mm , X-70, PSL-2, Qty: 181 KM Verified documents match technical BEC mentioned in VCS-IGGL tender no.C2201052-VCS-IGGL-Tender-001. We want to use same documents in this bid. Name of GAIL India Ltd is also mentioned in the format. Kindly let us know, whether it would be acceptable for this tender or not?	Tender condition prevails



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REPLIES TO BIDDER'S PRE-BID QUERIES DATED 20.05.2022

SUPPLY OF BARE & COATED PIPES  
FOR  
NORTH EAST GAS GRID PHASE-III OF IGGL, ASSAM

TENDER ID: VCS21000017

Tender No.: C2201052-VCS-IGGL-TENDER-001 Dtd 28.04.2022



Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply												
96	Dumpsites : Instruction to Bidders 12.11.2	-	Per days Dumpsite Maintenance Charges (Rs.10500 + GST) beyond Free period of 06 months.	This is not sufficient amount to maintain monthly expenses for Dumpsite Management, Request to revise monthly maintenance charges of dumpsite as Rs.15000 + GST	Tender condition prevails												
97	6.0 Note.2.0 6.0 Note. 8.0 9.11.3.3	-	Overall length tolerance shall be (-) Zero and (+) One pipe length to complete the ordered quantity. 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 between 10.0 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 Spec 5L stands deleted.	Bidder clarifies that All pipes shall be supplied with length as per CL 9.11.3.3 of client spec as reflected below: "All pipes shall be supplied with length between 11.5 m and 12.5 m. However pipe with length between 10.0 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 Spec 5L stands deleted." Please confirm	Tender condition prevails												
98	6.0 Note. 19 9.12.5 9.12.5.6	-	For butt weld end, bevel shall be in accordance with API specification 5L or ASME B16.25 as applicable. <b>Plain ends</b> During removal of inside burrs at the pipe ends, care shall be taken not to remove excess metal and not to form an inside cavity on bevel. Removal of excess metal beyond the minimum wall thickness as indicated in clause 9.11.3.2 of this specification shall be a cause for re-bevelling. In case root face of bevel is less than that specified, the pipe ends shall be re-bevelled and rectification by filing or grinding shall not be done.	Bidder clarifies that bevel end preparation shall be as per CL 9.12.5.2 of API 5L. Please confirm	Tender condition prevails												
99	254ITP CL 2.1ITP Note.3	-	All items shall be provided with EN 10204, 3.2 Certification. Inspection of Steel Plate/Coil/Billet required for manufacturing of Line Pipe shall also be 3.2 certified as per EN 10204. To carrying out inspection as per EN 10204, 3.2 certification, Vendor shall appoint TPIA from the attached TPIA list at bidder's own cost. <b>Scope of Supply</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">1.5</td> <td style="width: 40%;">Certification accordance with EN10204, 3.2 certificates.</td> <td style="width: 10%;">1 LOT</td> <td style="width: 40%;">As per specification</td> </tr> <tr> <td>2.1</td> <td>Inspection of Coils at Mills (Sub vendor works)</td> <td>Chemical &amp; Mechanical Properties, Method of manufacturing, Heat Treatment Condition etc.</td> <td>100%</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Mill Test Certificates (EN 10204-3.2)</td> </tr> </table>	1.5	Certification accordance with EN10204, 3.2 certificates.	1 LOT	As per specification	2.1	Inspection of Coils at Mills (Sub vendor works)	Chemical & Mechanical Properties, Method of manufacturing, Heat Treatment Condition etc.	100%				Mill Test Certificates (EN 10204-3.2)	Please clarify/confirm the <b>strikeout CL no. 25</b> in MR provided by client is to be considered or not and also confirm whether appointing TPIA (at pipe mill and / or steel mill) is in Bidder's scope of work.  Please confirm	Strikeout CL no. 25 in MR is to be considered
1.5	Certification accordance with EN10204, 3.2 certificates.	1 LOT	As per specification														
2.1	Inspection of Coils at Mills (Sub vendor works)	Chemical & Mechanical Properties, Method of manufacturing, Heat Treatment Condition etc.	100%														
			Mill Test Certificates (EN 10204-3.2)														
100	2	-	<b>NORMATIVE REFERENCES</b> 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 is of 2013. We confirm to follow this latest edition.	Agreed												



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## REPLIES TO BIDDER'S PRE-BID QUERIES DATED 20.05.2022

SUPPLY OF BARE & COATED PIPES  
FOR  
NORTH EAST GAS GRID PHASE-III OF IGGL, ASSAM

TENDER ID: VCS21000017

Tender No.: C2201052-VCS-IGGL-TENDER-001 Dtd 28.04.2022



Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply			
101	Table 5	-	C: 0.12% max (for X70) Mn: 1.70% max (for X70) Note b: Deleted	Bidder request to permit the Carbon-Manganese relationship as defined in API 5L Table 5 footnote b i.e: "For each reduction of 0.01 % below the specified maximum for C, an increase of 0.05 % above the specified maximum for Mn is Permissible, up to a maximum of 2.00 % for X70." Please confirm.	Tender condition prevails			
102	9.8.2.29.8.3	-	<b>Pipe body tests</b> The minimum average (set of three test pieces) shear fracture area shall be at least 85 % with one minimum value of 75%, based at a test temperature of 0 °C (32 0F) or at a lower test temperature as specified in the Purchase Order / Material Requisition (MR). <b>Pipe weld and HAZ tests</b> The average (set of three test pieces) absorbed energy value (Kv1) for each pipe weld and HAZ test shall be as specified in Table 8 of this specification, based upon full size test pieces at a test temperature of 0°C (32°F) or at a lower test temperature as specified in the Purchase Order / Material Requisition (MR).	Bidder Clarifies that CVN absorbed energy value for Pipe body, Weld and HAZ of PSL2 Pipe is considered as per Table 8 of Clint Spec. Bidder has considered the test temperature for CVN impact test (pipe body, weld & HAZ) as 0°C. Please confirm	Agreed			
103	9.12.5.7 & MR 6.0 Note. 20	-	<b>Bevel Protectors</b> 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. The details of the bevel protector/end caps shall be furnished for approval prior to start of the production	Bidder confirms to supply pipes with Bidder made metallic bevel protectors for sizes 12.75"OD pipes. Please confirm.	Bevel protector shall meet tender specifications			
104	10.2.1.2 Table 18	-	<table border="1" data-bbox="450 932 1104 1002"> <tr> <td>2</td> <td>Product analysis <sup>b</sup></td> <td>Two pipes per lot (maximum 100 pipes) per heat</td> </tr> </table> 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.	2	Product analysis <sup>b</sup>	Two pipes per lot (maximum 100 pipes) per heat	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.	Agreed
2	Product analysis <sup>b</sup>	Two pipes per lot (maximum 100 pipes) per heat						
105	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.	Agreed			
106	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.	With the provided option of an alternate marking scheme for placing the pipe number on OD surface, Bidder proposes that the use of Laser Marking machine (permanent in nature) shall also be permitted. Please confirm.	Agreed			
107		-	General	Bidder has retained Inspection & Test Plan of Electric Welded Line Pipes for information only, However project specific ITP shall be submitted upon receipt of award of Contract. Please confirm.	Agreed			



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Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
108	Material requisition for coated & bare line pipes: Cl. 6.0 (16) of Doc. No. : C221052-00-PP-MR-2001, Rev. No. 00, Dated: 28.04.2022:	-	<p><b>Cl. 6.0 (16) of Doc. No. : C221052-00-PP-MR-2001</b> Bidder shall inspect of all coated line pipes in presence of Owner representative while handing over of pipes. Holiday inspection of coated pipe shall be carried out by bidder 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 coated pipes. All handling, lifting tools etc. required for inspection of coated pipes at Storage Yards shall be carried out by the bidder</p> <p><b>Cl. 5.3 (xi) Doc. No.: C221052-00-PP-SOW-2001</b> xi. Handing over of pipes to laying contractor progressively, based on the construction requirement. Inspection of all bare &amp; coated line pipes in presence of Company representative while handing over of pipes to laying contractor at storage yards. 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 to laying contractor. All handling, lifting tools etc. required for inspection of coated/ bare line pipes at storage yard shall be carried out by the bidder. Bidder shall load the coated &amp; bare pipes on to the truck/ trailer (arranged by Installation Agency) at the Storage yards during handing over.</p> <p><b>Cl. 5.3 (xvi) Doc. No.: C221052-00-PP-SOW-2001</b> Bidder shall inspect of all bare &amp; 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.</p>	<p>Bidder wants to inform that each coated pipe holiday test shall be carried out during coating process at coating manufacturing plant at presence of Client / Client representative, If any pipes detected in holiday detector then the pipe shall be repaired as per within acceptance limit of client specification.</p> <p>Bidder intent to clarify that each pipe repeat holiday test normally not recommended, Since the coating stability will deteriorated after multiple holiday test &amp; each pipe holiday test at site practically not possible. This will also have safety concern at site.</p> <p><b>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.</b></p> <p><b>Please confirm</b></p>	Tender condition prevails
109	Scope of work for development of pipe storage yard: Cl. 5.3 (xi, xvi) Doc. No.: C221052-00-PP-SOW-2001, Rev. No. 00, Dated: 28.04.2022:	-	<p>26. Color bands of 50 mm width to be placed at both the ends, inside of Bare Pipes at a distance of 150 mm from the pipe ends and outside of 3LPE Coated Pipes at a distance of 450 mm from the pipe ends.</p> <p>27 White Band marking inside for all the items.</p>	<p>Bidder request to provide colour for outside surface of 3LPE Coated Pipes.</p> <p>Please confirm.</p>	Colour band shall be provided to the successful Bidder (s)
110	Material requisition for coated & bare line pipes : Cl. 6.0 (26, 27) of Doc. No. : C221052-00-PP-MR-2001, Rev. No. 00, Dated: 28.04.2022:	-	5. Specification for 3 Layer Polyethylene Coating of Line Pipes- Doc. No. VPC-SP-SS-2003,	<p>Bidder understands that there is typographical error. The document number mentioned in specification (VPC-SS-PP-2003) is different from the document number mentioned in MR (VPC-SP-SS-2003). We have considered the Doc. No. VPC-SS-PP-2003, Rev.03, Dated: 24.01.2022 for external 3LPE coating. Please confirm.</p>	Confirmed
111	Material requisition for coated & bare line pipes : Cl. 6.0 (28) of Doc. No. : C221052-00-PP-MR-2001, Rev. No. 00, Dated: 28.04.2022:	-	6. Specification for Internal Coating of Line Pipes- Doc. No. VPC-SP-SS-2047	<p>Bidder understands that there is typographical error. The document number mentioned in specification (VPC-SS-PP-2047) is different from the document number mentioned in MR (VPC-SP-SS-2047). We have considered the Doc. No. VPC-SS-PP-2047, Rev.00, Dated: 22.02.2022 for internal liquid epoxy coating. Please confirm.</p>	Confirmed
112	Material requisition for coated & bare line pipes : Cl. 6.0 (28) of Doc. No. : C221052-00-PP-MR-2001, Rev. No. 00, Dated: 28.04.2022:	-	Material manufacturer shall conduct the tests for each grade of material in Approved external independent laboratory (preferably ISO 17025 certified or equivalent having good track records of pipe coating testing) and provide complete test report (not older than 3 years) prior conducting Procedure Qualification Trail (PQT).	<p>Bidder understands that specified requirement is applicable for the independent lab (preferably ISO 17025 certified or equivalent having good track records of pipe coating testing) test report to be furnished by PE material manufacturer for long term tests UV resistance, Thermal aging &amp; Specific electrical coating resistance or coating resistivity. Please confirm</p>	Confirmed



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## REPLIES TO BIDDER'S PRE-BID QUERIES DATED 20.05.2022

SUPPLY OF BARE & COATED PIPES  
FOR  
NORTH EAST GAS GRID PHASE-III OF IGGL, ASSAM

TENDER ID: VCS21000017

Tender No.: C2201052-VCS-IGGL-TENDER-001 Dtd 28.04.2022



Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
113	Specification for 3 Layer Polyethylene coating of line pipes : Cl. 3.10 of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022	-	The coating material manufacturers shall carry out tests for all properties specified in clause 5.4.1, 5.4.2 & 5.4.3 and Table 2, 3 & 4 respectively for each batch of epoxy, adhesive and polyethylene compound. The coating materials manufacturer shall issue test certificates as per BS EN 10204, 3.1 for each batch of materials supplied to Applicator/ Contractor indicating all contents/ parameters required for batch certification as per clause 9.3, Table 6 of ISO 21809-1:2018 and the same shall be submitted to Owner for approval prior to their use.	As confirm by FBE, adhesive & HDPE Material manufacturer will provide test certificate for all properties specified in clause 5.4.1, 5.4.2 & 5.4.3 and Table 2, 3 & 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. Please refer attached sample batch test certificates issued by FBE, Adhesive and Topcoat HDPE material manufacturer's for ready reference. Bidder will submit similar certificates issued by material manufacturer for the batches to be used for 3LPE coating of this order.	Tender condition prevails
114	Specification for 3 Layer Polyethylene coating of line pipes : Cl. 4.2 of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	Cl. 4.3: In addition to Manufacturer's certificate, the Applicator/ Contractor shall draw two samples per batch of epoxy, adhesive and polyethylene in the presence of Owner Representative and test for the following properties at the coating laboratory prior to its use in order to establish compliance with the manufacturer's test certificates. <b>Cl. 4.3.1: Epoxy Powder:</b> <ul style="list-style-type: none"> <li>• Density</li> <li>• Gel Time</li> <li>• Particle size</li> <li>• Moisture content</li> <li>• Thermal characteristics (Tg1, Tg2 &amp; ΔH)</li> </ul>	Bidder proposes to submit raw material manufacturer test certificate (RMTC) for review of Particle Size test of epoxy powder. Bidder proposes that following epoxy powder test shall be perform in-house laboratory: <ul style="list-style-type: none"> <li>• Density</li> <li>• Gel Time</li> <li>• Particle size</li> <li>• Moisture content</li> <li>• Thermal characteristics (Tg1, Tg2 &amp; ΔH)</li> </ul> Please confirm	Agreed
115	Specification for 3 Layer Polyethylene coating of line pipes :Cl. 4.3, 4.3.1 of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	Cl. 5.4.3: Properties of Polyethylene (HDPE) Compound: Table 4 - HDPE (Top coat) Material Properties: Sl. No. 11: <b>Properties:</b> Oxidation Induction Time (Intercept in the tangent method): <b>Requirements:</b> ≥30 min at 2100C <b>Test Method:</b> ISO 11357-6	Bidder understands that there is typographical error, the Oxidation Induction Time requirements to be read as ≥30 minutes at <b>210°C</b> . Please confirm.	Confirmed
116	Specification for 3 Layer Polyethylene coating of line pipes : Cl. 5.4.3 (Table - 4, Sl. No. 11) of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	<b>Cl. 5.4.4:</b> Properties of Applied 3LPE Coating: <b>Table 5</b> - On Cured Epoxy (FBE) film of 3LPE Coating <b>Properties:</b> Holiday Detection (Test Voltage set to 5V per μm of minimum specified epoxy coating thickness) <b>Requirements:</b> No holidays <b>Test Method:</b> ISO 21809-2 Clause 10.3.2 <b>Cl. 8.5.1.4: Holiday Inspection:</b> Epoxy coated portion of two pipes shall be subjected to holiday inspection as per Clause 10.3.2 of ISO 21809-2 and the test voltage shall set to 5V per μm of minimum specified epoxy coating thickness. There shall be no holiday on epoxy coated portion (Refer Clause 5.4.4 and Table 5). <b>Table 12 (2.9)</b> <b>Properties:</b> Holiday Detection (Test Voltage set to 5V per μm of minimum specified epoxy coating thickness) Test Method: ISO 21809-2 Clause 10.3.2, Clause 8.6.1.4. <b>Requirements:</b> No holidays <b>Frequency During PQT:</b> 2 Pipes <b>Frequency During Production:</b> Not required	Bidder would like to state that it is practically difficult to achieve no holiday at minimum 200 microns dry film thickness of epoxy layer. Hence holiday acceptance criteria shall be one holiday per meter length for 12.75" OD as per clause 10.3.2.2 of ISO 21809-2 for FBE coated portion of partly coated pipe.  Please confirm.	Tender condition prevails



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TENDER ID: VCS21000017

Tender No.: C2201052-VCS-IGGL-TENDER-001 Dtd 28.04.2022



Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
117	Specification for 3 Layer Polyethylene coating of line pipes : Cl. 5.4.4 (Table - 5, Sl. No. 3), 8.5.1.4, Table 12 (2.9) of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	Cl. 5.4.4 Properties of Applied 3LPE Coating: Table 5 - On Cured Epoxy (FBE) film of 3LPE Coating <b>Properties:</b> Hot Water Adhesion 28 days at 75°C+/-3°C <b>Requirements:</b> Rating 1 to 3 <b>Test Method:</b> ISO 21809-2 Clause A.16	Bidder proposes to submit raw material manufacturer test certificate for review of 28 days Hot water adhesion test of epoxy powder.  Please confirm.	Tender condition prevails
118	Specification for 3 Layer Polyethylene coating of line pipes : Cl. 5.4.4 (Table - 6, Sl. No. 2 & 3) of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	Cl. 5.4.4 Properties of Applied 3LPE Coating: Table 6 - On Extruded Adhesive film of 3LPE coating <b>Properties:</b> Strain at Break at 23°C ± 3°C <b>Requirements:</b> ≥600 % <b>Test Method:</b> ISO 527-2 <b>Properties:</b> Stress at Yield at 23°C ± 3°C <b>Requirements:</b> ≥8 Mpa <b>Test Method:</b> ISO 527-2	Bidder proposes to submit raw material manufacturer test certificate for review of Strain at Break test & Stress at Yield test of adhesive material.  Please confirm.	Tender condition prevails
119	Specification for 3 Layer Polyethylene coating of line pipes : Cl. 7.1.4 of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	All pipes shall be preheated to a temperature of 65°C to 85°C prior to abrasive blast cleaning using induction heating or radiant heating.  Please confirm	Bidder proposes to allow gas fired system also, to preheat the pipes prior to abrasive blast cleaning.  Please confirm.	Tender condition prevails
120	Specification for 3 Layer Polyethylene coating of line pipes: Cl. 7.1.12, 7.2 & 7.2.9, Table 10 of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	<b>Cl. 7.1.12:</b> After final abrasive blast cleaning, all pipes shall be tested for presence of soluble salts. One test shall be carried out on each pipe. The acceptance criteria shall be 20 mg/m <sup>2</sup> or 2 µg/cm <sup>2</sup> (max). An approved salt meter (SCM 400 or equivalent) shall be used to carry out using salt tests and shall be calibrated in accordance with the equipment manufacturer's recommendations. Any pipe having salt contamination exceeding 2µg/cm <sup>2</sup> shall be de-ionized water washed and then re-checked for salt contamination. In case, salt level is still greater than 2 µg/cm <sup>2</sup> , chemical pre-treatment of steel pipes after abrasive blasting using phosphoric acid wash, followed by high pressure water wash (>1500 psi) shall be carried out as per clause 7.2. The applicator shall specify the method of chemical pre-treatment in coating documentation, namely ITP and APS In case, chemical pre-treatment of all steel pipes after abrasive blasting with phosphoric acid wash is a mandatory requirement, the same shall be specified by the Owner. <b>Cl. 7.2: Chemical pre-treatment with phosphoric acid solution (if specified):</b> <b>Cl. 7.2.9:</b> The salt tests shall be carried out after de-ionized water rinse at one end of each pipe at the blasting inspection bed. The acceptance criteria shall be 2µg/cm <sup>2</sup> . 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. <b>Table 10 – Requirements for inspection of surface preparation of pipe</b> <b>Soluble salt after blasting (at one end):</b> <b>Test Method: ISO 8502-6 or ISO 8502-9 or SSPC Guide 15</b> <b>Requirements:</b> Salt (Chloride) content as (NaCl) max. 20 mg/m <sup>2</sup> (2 µg/cm <sup>2</sup> ) <b>Frequency During ROT:</b> Each pipe	Bidder request to confirm chemical pre-treatment after abrasive blasting with phosphoric acid wash is a mandatory requirement or not for this project.  In case chemical pre-treatment with phosphoric acid wash is mandatory requirement, Bidder will perform surface preparation inspection and salt contamination test after 2nd abrasive blast cleaning at the blasting inspection bed and prior to phosphoric acid wash and high pressure DI water wash.  If salt contamination exceeds 2µg/cm <sup>2</sup> then pipe shall be re-blasted and again rechecked for salt contamination.  Please confirm.	As per Tender condition



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Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
121	Specification for 3 Layer Polyethylene coating of line pipes: Cl. 7.3 of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	Chemical Pre-treatment with Chromate Solution (If specified):	In Cl. 7.3 of Doc. No.: VPC-SS-PP-2003ITP as mentioned "If specified", kindly clarify chemical Pre-treatment with chromate solution is to be done or not for this project.  Please confirm	As per Tender condition
122	Specification for 3 Layer Polyethylene coating of line pipes: Cl. 7.4.3, 15 of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	<b>Cl. 7.4.3:</b> The extrusion temperature of polyethylene film 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. <b>Cl. 15:</b> All inspection, measuring and test equipment shall be good working condition and have valid calibration certificates traceable to ISO 17025 accredited calibration laboratory or equivalent. In addition to the above, the following measuring devices shall be verified at a regular interval during execution of coating activities. <b>Device Name:</b> Optical Pyrometer <b>Reference Clause No. :</b> 7.4.1.5 <b>Frequency of in-house Verification:</b> Twice / shift <b>Tolerance:</b> Standard value $\pm 2\%$	Bidder clarifies that optical 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.	Agreed
123	Specification for 3 Layer Polyethylene coating of line pipes: Cl. 8.4 of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	<b>Qualification of Coating Repair:</b> During PQT, Coating repair qualification shall be carried out using approved repair materials and approved procedure by competent Repair personnel or Insulator under supervision of QC Inspector or Engineer.  Type of Repair      No. of Location/Test      Detailed inspection  Patch repair      1 Pipe (2 Patches)      Visual, Thickness, Holiday Inspection @25 kV Peel Test: ≥ 2.5 N/mm @23±3°C; ≥ 0.2 N/mm @80±3°C; No separation of epoxy layer from the steel surface.  Heat-shrinkable Sleeve (HSS) Repair (System 14-B of ISO 21809-3)      1 Pipe (2 HSS)      Visual, Thickness, Holiday Inspection @25 kV Peel Test: (Table 17 of ISO 21809-3): ≥ 5 N/mm @23±3°C; ≥ 0.3 N/mm @80±3°C; No separation of epoxy layer	Bidder proposes; acceptance criteria & test method for peel test measurement on repaired area (Patch Repair & Heat- shrinkable Sleeve Repair) shall be as per repair material manufacturer's recommendation.  Bidder proposes to peel test shall be carried out by manual peel test machine (Spring loaded type test assembly) on repaired area.  Please confirm	<b>Tender condition prevails</b>



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SUPPLY OF BARE & COATED PIPES  
FOR  
NORTH EAST GAS GRID PHASE-III OF IGGL, ASSAM

TENDER ID: VCS21000017

Tender No.: C2201052-VCS-IGGL-TENDER-001 Dtd 28.04.2022



Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
124	Specification for 3 Layer Polyethylene coating of line pipes: Cl. 8.5.2.4, Table 12 (4.6) of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	<p><b>Peel (Adhesion) Strength:</b> Five test pipes shall be selected for Peel strength tests as per Annex C (C2) of ISO21809 -1. On each of the selected pipes, three peel tests shall be performed for each specified temperature (23±3°C &amp; 80±3°C), one at each end and one in the middle of the pipe. Specified peel strength requirement at each temperature shall be complied with and there shall be no disbonding between steel &amp; epoxy (Refer Clause 5.4.4 and Table 7). Length of peel shall be minimum 140 mm. None of test pipes shall fail.</p> <p><b>Table 12 (4.6)</b> Table 12 — Requirements for Inspection of Plant Applied Coating (PQT &amp; Production) Peel Strength of 3LPE Coating at 23°C +/-3°C at 80°C+/-3°C Test Method: ISO 21809-1 Annex C2, Clause 8.6.2.4. Requirements: ≥18 N/mm 23±3°C, ≥5 N/mm 80±3°C, (No disbanding between steel &amp; epoxy) Frequency During PQT: 5 pipes x 3 tests (@ both ends &amp; middle) Frequency During Production: 2 h for pipe Ends (cutback portion) &amp; 4 h for middle of pipe</p>	<p>Bidder proposes to bond strength test shall be carried out by manual peel test machine (Spring loaded type test assembly) due to size constraint. Please confirm</p> <p>We request to kindly consider the practical difficulty.</p> <p>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.</p>	Tender condition prevails, except peel test by spring load test assembly by manual peel test as per IS21809-1 is acceptable
125	Specification for 3 Layer Polyethylene coating of line pipes: Cl. 8.5.2.15, Table 12 (4.17) of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	<p><b>Specific Electrical Coating Resistance:</b> The long term Specific Electrical Coating Resistance test of 3LPE coated pipes section shall be conducted for 100 days @ 23°C in accordance with Annex J of DIN 30670. Tested value shall be ≥108 Ωm<sup>2</sup> (refer Clause 5.4.4 and Table 7). The test certificate (not older than 3 years) submitted by the PE manufacturer shall be of recognized independent test laboratory with a track record of 3LPE coating testing. The test laboratory should be NABL / ISO 17025 accredited and shall have approval for conducting the above specific test as per DIN 30670. Owner may decide to get the test conducted for 3LPE coating applied during PQT and get tested for the above long-term test at the cost of the coating applicator at an accredited independent laboratory as per above requirement.</p> <p><b>Table 12 (4.17)</b> Table 12 — Requirements for Inspection of Plant Applied Coating (PQT &amp; Production) <b>Specific Electrical Coating Resistance (23 °C±2 °C)</b> <b>Test Method:</b> DIN 30670 Annex J, Clause 8.6.2.15. <b>Requirements:</b> ≥10<sup>8</sup> Ωm<sup>2</sup> Frequency During PQT: Review of Independent Test certificate not older than 3 years as per Clause 8.6.2.0 <b>Frequency During Production:</b> Not required (However, Owner may request to conduct the test for 3LPE coating at an accredited independent laboratory)</p>	<p>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 (not older than 3 years). Please confirm.</p>	Certificate by manufacturer should confirm tender condition



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Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
126	Specification for 3 Layer Polyethylene coating of line pipes: Cl. 8.5.2.16, 8.5.2.16.1, 8.5.2.16.2, Table 12 (4.18) of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	<p><b>Cl. 8.5.2.16: UV Resistance and Thermal Ageing.</b> The followings long term tests for extruded PE top material shall be conducted in accordance with Annex G of ISO 21809-1: <b>Cl. 8.5.2.16.1: UV Ageing Test:</b>Continuous irradiation of UV xenon lamp; Black standard Temperature: 65±3°C; Relative Humidity: 65±5%; Test Duration: 2210 h. <b>Cl. 8.5.2.16.2 Thermal Ageing Test:</b> Test Temperature: 100±3°C; Test Duration: 4800 h (200 d). Tested values shall meet the requirements as specified in Clause 5.4.4 and Table 7.</p> <p>The test certificate (not older than 3 years) submitted by the PE manufacturer shall be of recognized independent test laboratory with a track record of 3LPE coating testing. The test laboratory should be NABL / ISO 17025 accredited and shall have approval for conducting the above specific tests as per ISO 21809-1.</p> <p>Owner may decide to get the test conducted for PE top coat material 3LPE coating applied during PQT and get tested for the above long-term tests at the cost of the coating applicator at an accredited independent laboratory as per above requirements. <b>Table 12 (4.18)</b> Table 12 — Requirements for Inspection of Plant Applied Coating (PQT &amp; Production) <b>UV Resistance and Thermal Ageing</b> <b>Test Method:</b> ISO 21809-1 Annex G, Clause 8.6.2.16 <b>Requirements: Δ MFR: ≤35 %</b> <b>Frequency During PQT:</b> Review of Independent Test certificate not older than 3 years as per Clause 8.6.2.p <b>Frequency During Production:</b> Not required (However, Owner may request to conduct the test for PE top coat material at an accredited independent laboratory)</p>	<p>Bidder understands that the UV Resistance and Thermal Ageing 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 (not older than 3 years). Please confirm.</p>	<p>Certificate by manufacturer should confirm tender condition</p>
127	Specification for 3 Layer Polyethylene coating of line pipes: Cl. 8.1.2, 10.1 of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	<p><b>Cl. 8.1.2:</b> Carry out raw material testing on the batches of all coating materials to be used for PQT viz. FBE epoxy powder, adhesive granules, PE top coat granules, confirming compliance to properties as per clauses 5.4.1, 5.4.2 and 5.4.3 respectively; <b>Cl. 10.1: Raw Material Testing:</b> Raw material testing shall be conducted on all the batches of all coating materials to be used for production viz. FBE epoxy powder, co-polymeric melt adhesive granules, PE top coat granules to confirm compliance as per clause 5.4 sub clauses 5.4.1.</p>	<p>Bidder understands that the in-house raw material testing shall be carried out as per clause number 4.3 of client specification except the comments / clarification given in this comments sheet. Please confirm.</p>	<p>Tender condition prevails</p>
128	Specification for 3 Layer Polyethylene coating of line pipes: Table 12 (2.2, 2.3, 2.5, 3.2, 4.1) of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	<p>2.2: Induction Coil Setting: Continuous monitoring 2.3: Pipe temperature: Continuous monitoring &amp; recording 2.5: Air pressure in epoxy spray guns: Continuous monitoring &amp; recording 3.2: Extrusion temperature of adhesive: Continuous monitoring &amp; recording 4.1: PE Extrusion temperature: Continuous monitoring &amp; recording</p>	<p>Bidder propose and consider that the following application parameters shall be monitored continuously &amp; recorded at once per hour during the regular production. * Induction Coil Setting * Pipe temperature prior to epoxy application; * Air pressure in epoxy spray guns; * Extrusion temperature of adhesive * PE Extrusion temperature Please confirm.</p>	<p>Tender condition prevails</p>



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Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
129	Specification for 3 Layer Polyethylene coating of line pipes: Cl. 12.5 of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	Bare/coated pipes at all times shall be stacked completely clear from the ground, at least 500 mm, so that the bottom row of pipes remains free from any surface water.	Bidder proposes that the coated pipe shall be stacked from the ground at least 300 mm. Please confirm	Tender condition prevails
130	Specification for 3 Layer Polyethylene coating of line pipes: Cl. 15 of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	All inspection, measuring and test equipment shall be good working condition and have valid calibration certificates traceable to ISO 17025 accredited calibration laboratory or equivalent.	Bidder intent to clarify that the all instruments will be duly calibrated in independent lab and traceable to ISO 17025 / NPL. Please confirm	Confirmed
131	Specification for 3 Layer Polyethylene coating of line pipes: Annexure-I of Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022:	-	PE compound (Manufacturer) <b>HE 3450 H (Borealis / Borouge)</b>	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 Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022: Specification for 3 Layer Polyethylene coating of line pipes. Please confirm	Tender condition prevails
132	Inspection and test plan for 3 layer PE coating of line pipes: ITP No.: VPC-ITP-PP-2017, Rev.: 02, Dated: 15.05.2020:	-	ITP No.: VPC-ITP-PP-2017, Rev.: 02, Dated: 15.05.2020: Inspection and test plan for 3 layer PE coating of line pipes	Bidder understands that inspection and testing frequency for regular production shall be as per Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022: Specification for 3 Layer Polyethylene coating of line pipes except the proposal for test frequency mentioned in this comment sheet. Bidder understands ITP No.: VPC-ITP-PP-2017, Rev.: 02, Dated: 15.05.2020: Inspection and test plan for 3 layer PE coating of line pipes is considered for reference only. Please confirm	Confirmed
133	Standard Specification for Repair of Polyethylene coating: Cl. 1.0 of Doc. No.: VPC-SS-PL-0043, Rev.: 01, Dated: 19.11.2019:	-	<b>SCOPE</b> This specification covers the minimum requirements for materials and equipment, application procedure and inspection of repair of damaged Polyethylene coatings on steel pipes. This specification is applicable for repairing damages less than 100mm x 100 mm for pipe sizes less than 10", 150mm x 150mm for pipe sizes between 12" to 28" and 300mm x 300mm for pipe sizes more than 28". If damaged area of coating of the pipeline is larger than above, heat shrinkable sleeve is recommended. The repair shall be carried out using repair patch made of radiation cross-linked polyolefin backing, coated on the inside with semi-crystalline thermoplastic adhesive and filler mastic. The repair patch shall have thermal indicators to ensure correct heat is being applied during application.	Bidder understands that repair generated due to tests shall be excluded from the criteria mentioned in the specification for repair of polyethylene coating, Doc. No.: VPC-SS-PL-0043, Rev.: 01, Dated: 19.11.2019. Please confirm. Bidder understands that repair criteria shall be as per Doc. No.: VPC-SS-PP-2003, Rev.: 03, Dated: 24.01.2022: Specification for 3 Layer Polyethylene coating of line pipes Please confirm	Tender condition prevails
134	Material requisition for coated & bare line pipes: Cl. 6.0 (11) of Doc. No.: C221052-00-PP-MR-2001, Rev. No. 00, Dated: 28.04.2022:	-	The pipes shall be furnished with liquid epoxy internal painting conforming to ISO 15741, "Friction reduction coatings for the interior of steel pipe lines for noncorrosive gases"/ API RP 5L 2. The coating material shall typically be two pack epoxy paint.	Bidder has considered ISO 15741-2016 to be followed for internal flow coating. Please confirm.	Confirmed



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Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
135	Material requisition for coated & bare line pipes  Standard Specification for Internal Coating for Line Pipes: Cl. 6.0 (11) of Doc. No. : C221052-00-PP-MR-2001, Rev. No. 00, Dated: 28.04.2022: & Cl. 5.3, 5.7, Table 2 of Doc. No.: VPC-SS-PP-2047, Rev. 00, Dated: 22.02.2022:	-	Bidder shall submit its methods and material proposed to be used for executing the internal coating to Company and shall receive approval from Company prior to start of production. The material being proposed shall have been applied successfully in at least one project in last five years. The coating material shall be qualified as per ISO: 15741/ API RP 5L 2 Latest Edition and all qualification testing should be performed by an independent laboratory. If testing is undertaken at the coating manufacturer's premises, the test shall be witnessed by the Company or by third party. The coating manufacturer shall obtain the results in the form of a full qualification report showing test method and results. <b>Cl. 5.3, 5.7, Table 2 of Doc. No.: VPC-SS-PP-2047</b> Particular requirement for qualifications of the cured paint film 1) Dry film thickness 2) Adhesion test 3) Buchholz hardness 4) Resistance to neutral salt spray 5) Resistance to artificial ageing 6) Bend test (conical Mandrel) 7) Resistance to gas pressure variation 8) Resistance to water immersion 9) Resistance to chemicals 10) Resistance to hydraulic blistering	Bidder understands that the qualification test certificate furnished by paint raw material manufacturer (the tests shall be conducted any third party lab) in accordance ISO 15741 shall be submitted for client review and approval at the time of PQT. Please confirm.	Confirmed
136	Material requisition for coated & bare line pipes: Cl. 6.0 (11) of Doc. No. : C221052-00-PP-MR-2001, Rev. No. 00, Dated: 28.04.2022:	-	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.	Bidder intent to clarify that the surface cleanliness checking shall be carried out in accordance with ISO 8501-1. Please confirm	Tender condition prevails
137	Material requisition for coated & bare line pipes & Standard Specification for Internal Coating for Line Pipes : Cl. 6.0 (11) of Doc. No. : C221052-00-PP-MR-2001, Rev. No. 00, Dated: 28.04.2022: & Cl. 6.2 of Doc. No.: VPC-SS-PP-2047, Rev. 00, Dated: 22.02.2022:	-	<b>Cl. 11 of MR</b> The surface roughness shall be checked at random and shall be of the range of 30-60 microns in accordance with ISO 4287-1. <b>Cl. 6.2 of Doc. No.: VPC-SS-PP-2047</b> Check the surface profile. Unless otherwise agreed, it shall be such that R <sub>γ</sub> 5 (see ISO 8503-1) is between 25 μm and 60 μm.	Bidder intent to clarify that the surface roughness checking shall be carried out in accordance with ISO 8503-4. Using stylus roughness gauge. Please confirm	Tender condition prevails
138	Material requisition for coated & bare line pipes: Cl. 6.0 (18) of Doc. No. : C221052-00-PP-MR-2001, Rev. No. 00, Dated: 28.04.2022:	-	Pipe roughness shall be 15 microns for Internal Coated pipe & 40 Micron for without Internal coated pipe.	Bidder intent to clarify that the final cured internal coating surface roughness checking shall be carried out in Ra scale & Specified acceptance criteria is maximum. Please confirm.	Tender condition prevails



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Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
139	Inspection and test plan for Internal coating of pipelines: Sl. No. 2.2 of ITP No. VPC-PL-ITP-028, Rev.00, dated: 26.09.2019:-	-	<b>STAGE/ACTIVITY:</b> Properties of Cured paint film <b>CHARACTERISTICS:</b> DFT, Adhesion, Buchholz hardness, Resistance to neutral salt spray, Resistance to artificial ageing, Bend test (Conical mandrel), Resistance to gas pressure variations, Resistance to water immersion, Resistance to chemicals, Resistance to hydraulic blistering & other properties as applicable as per specification <b>QUANTUM OF CHECK</b> Each Batch	As per ISO 15741:2016 & Doc. No.: VPC-SS-PP-2047, Rev. 00, Dated: 22.02.2022 (Standard Specification for Internal Coating for Line Pipes), Mentioned properties are required for each grade only, we will review test certificate of paint manufacturer's batch properties as per Table 3 of ISO 15741:2016 / Cl. 5.8, Table 3 of Doc. No.: VPC-SS-PP-2047, Rev. 00, Dated: 22.02.2022. Please confirm	Agreed
140	Inspection and test plan for Internal coating of pipelines & Standard Specification for Internal Coating for Line Pipes: Sl. No. 3.5 of ITP No. VPC-PL-ITP-028, Rev.00, dated: 26.09.2019:- & Cl. 6.1 (Table 4) of Doc. No.: VPC-SS-PP-2047 Rev. 00	-	<b>Sl. No. 3.5 of ITP No. VPC-PL-ITP-028</b> <b>STAGE/ACTIVITY:</b> Inspection of Wet Paint (Mixed) <b>CHARACTERISTICS:</b> Viscosity & Temperature <b>QUANTUM OF CHECK</b> Every time paint is mixed & Every time painting is interrupted <b>Cl. 6.1 (Table 4) of Doc. No.: VPC-SS-PP-2047 Minimum items to be checked and recorded during the coating process</b> <b>Items:</b> Wet paint (mixed) Viscosity and temperature <b>Frequency:</b> Every time paint is mixed and every time painting is interrupted	Bidder uses plural feed airless equipment (with automatic dosage) for paint spray. Hence bidder proposes Viscosity & Temperature checking frequency at start of production and once per shift. This is in accordance with Table 4 of ISO 15741:2016. Please confirm	Confirmed
141	Standard Specification for Internal Coating for Line Pipes: Cl. 5.1 of Doc. No.: VPC-SS-PP-2047, Rev. 00, Dated: 22.02.2022:	-	The typical operating-temperature range for this type of coating is between -20 °C and 110°C.	Bidder has considered the operating-temperature as -20°C to 80°C for internal flow coating. Please confirm	Tender condition prevails
142	Standard Specification for Internal Coating for Line Pipes: Cl. 5.2, 5.7, Table 2 of Doc. No.: VPC-SS-PP-2047, Rev. 00, Dated: 22.02.2022:	-	5.2 Particular requirement for qualification of the coating material 1. Non-volatile matter (by mass) 2. Non-volatile matter (by volume) 3. Viscosity 4. Density 5. Ash (residue on ignition) 6. Pot life 7. Infrared spectrograms	Bidder understands that the following coating material qualification tests shall be performed by coating material supplier. The test certificates shall be furnished to client for review. 1. Non-volatile matter (by mass) 2. Non-volatile matter (by volume) 3. Viscosity 4. Density 5. Ash (residue on ignition) 6. Pot life 7. Infrared spectrograms	Agreed
143	Standard Specification for Internal Coating for Line Pipes: Cl. 5.3, Table 2 of Doc. No.: VPC-SS-PP-2047, Rev. 00, Dated: 22.02.2022:	-	Particular requirements of qualification of the cure paint film: 1. Resistance to neutral salt spray 2. Resistance to artificial aging 3. Resistance to gas pressure variation 4. Resistance to water immersion 5. Resistance to chemicals 6. Resistance to hydraulic blistering	Bidder intent to clarify that the following tests are long term tests and shall be performed by coating material supplier. The test certificates shall be furnished to client for review. 1. Resistance to neutral salt spray 2. Resistance to artificial aging 3. Resistance to gas pressure variation 4. Resistance to water immersion 5. Resistance to chemicals 6. Resistance to hydraulic blistering	Agreed
144	Standard Specification for Internal Coating for Line Pipes: Cl. 5.3.6 of Doc. No.: VPC-SS-PP-2047, Rev. 00, Dated: 22.02.2022:	-	<b>Resistance to neutral salt spray</b> The coating, applied on steel panels with a dry film thickness of 60 µm to 75 µm, conditioned using cycle B or C (see 5.3.2), and with an X-cut down to the substrate at least 20 mm from any edge, shall be tested in accordance with ISO 7253 for 480 h.	Bidder intent to clarify that the ISO 7253 replaced with ISO 9227. Please confirm	Tender condition prevails



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145	Standard Specification for Internal Coating for Line Pipes: Cl. 6.1 (Table 4) of Doc. No.: VPC-SS-PP-2047, Rev. 00, Dated: 22.02.2022:	-	<b>Table 4 – Minimum items to be checked and recorded during the coating process</b> Flash point: At every change of shift	Bidder requests more clarity for Flash point measurement requirement during coating application.  Bidder understands that flash point is paint material property and the paint material manufacturer declares the same in PDS and / or MSDS. Bidder intent to clarify that the flash point tests shall be reported in PDS / MSDS. Please confirm	Confirmed
146	Inspection and test plan for Internal coating of pipelines: ITP No. VPC-PL-ITP-028, Rev.00, dated: 26.09.2019:-	-	ITP No. VPC-PL-ITP-028, Rev.00, dated: 26.09.2019:- Inspection and test plan for Internal coating of pipelines	Bidder understands that inspection and testing frequency for regular production shall be as per Doc. No.: VPC-SS-PP-2047, Rev. 00, Dated: 22.02.2022: Standard Specification for Internal Coating for Line Pipes except the proposal for test frequency mentioned in this comment sheet. Bidder understands ITP No. VPC-PL-ITP-028, Rev.00, dated: 26.09.2019:- Inspection and test plan for Internal coating of pipelines is considered for reference only. Please confirm.	Tender condition prevails
147	Volume 1 of II : Clause 16	59/273	Earnest Money Deposit	1. We have not found Format F-2 for Preparation of Earnest Money Deposit in the tender documents. Hence we request you to please share. 2. Please furnish the detailed address of M/s IGGL for issuance of Earnest Money Deposit from the Bank. 3. For SFMS Advice below details are applicable for EMD :  IGGL's Bank a/c details:  Bank Name : State Bank of India Account Holder's Name: INDRADHANUSH GAS GRID LIMITED (IGGL) Account No. : CURRENT A/C NO. 37967639273 IFSC Code: SBIN0003030 BRANCH : DISPUR  Please confirm.	Already shared vide Addendum#1 dated 06.05.2022, IGGL Bank details are given in Clause No. 13.7 & 13.8 of ITB
148	Volume 1 of II : Clause 1.3	16/273	Proposed locations of Storage yard/Dumpsite/Warehouse	4. You will appreciate that for Preparation of EMD it need at least 7-10 working days .Hence we request you to provide confirmation on the above bid at the earliest. 1. Bidder hereby put forth that Dumpsite locations i.e DS 2A, DS 2B, DS 3, DS 3B, DS 4A, DS 4B, DS 5A, DS 5B, DS 6A & DS 6B is in the same city we request you to please reduce to one location in one city because of difficulty of land scarcity in these states required for dumpsite maintenances.  2. We request you to please provide us the detailed address of dumpsite locations along with detailed Chain-age diagram as this will have to attract commercial implications and hence must be defined in the tender.  3. Since the location of stockyard of A1 & A2 are the same in view of this we request IGGL/VCS to remove the scope of the Dumpsite from the successful bidder of A2 as 2300 MT pipes are to be distributed in 5 Locations.  4. Also, since evaluation is item-wise basis because of this if A1 & A2 are awarded to the same bidder, then there will not be any need to put separate dumpsite for these line items. Please confirm	Tender condition prevails



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Tender No.: C2201052-VCS-IGGL-TENDER-001 Dtd 28.04.2022



Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
149	Volume 1 of II : Clause 1.3	16/273	Lot Size	<p>1. We wish to bring it to your notice that commencement of delivery for Lot 1 Quantities are from 16<sup>th</sup> week from date of FOA 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 with dumpsite maintenance.</p> <p>In the view of above we propose to deliver Pipes as per below schedule :</p> <p>1. Starting from the 20th week and ending up to the 26th week from the date of FOA with the continuous delivery period during this period.</p> <p>2. If our above proposal is not accepted we propose that instead of item-wise evaluation we propose Dumpsite-wise evaluation and award.</p> <p>3. We also propose to split item no A1 between two bidders considering the huge quantity in this item this will also help IGGL and Bidder to meet the project delivery requirements against the subject tender inquiry as due to current steel market prevailing situation, getting steel delivery is becoming a big challenge.</p>	Please refer Corrigendum # 1
150	Volume 1 of II : Clause 4.1.2.1	261/273	The lot wise delivery Schedule for each item shall be as per Section II of Commercial Tender. In case bidder submits bid for part quantities or get award for part quantity of item, the item-wise per lot delivery schedule shall be proportional to quoted/ awarded quantities per dumpsite.	We understand that part order is not applicable for said procurement.	Tender condition prevails
151	Volume 1 of II	159/273	Format 10 D (ERW) & Format 13 C (3LPE Coating)	We understand that the capacity assessment for Bare Pipes and Coating on Bare Pipes are not applicable for those bidders who are not opting Pipe Mill and Coating Plant Demo. Please confirm.	Tender condition prevails
152	Volume 1 of II	29/273	The quantity for ordering of an item may be divided on more than one bidder for the item and therefore Bidder's quoted price for these items shall be valid for part quantity also.	Please confirm whether splitting is not applicable for said procurement.	Tender condition prevails
153	Volume 1 of II : Clause 1	270/273	Maintenance of Warehouse/ Dumpsites (After free period) After expiry of the free period of 6 Month from date of receipt of last pipe or the contractual delivery date, whichever is later, Pipe Manufacturer will be entitled for payment of Rs.10,500/-(exclusive of GST) per day for storage and preservation of coated line pipes at warehouse for 18 months (12 months paid period + 6 months extended paid period) which shall be payable on monthly basis. GST shall be payable extra at actual against invoice. Statutory variation on account of GST shall be payable as per tender document.	We propose to consider Dumpsite charges per day per stockpile of INR 17,500+ GST considering the rising cost after free period also land cost in North East States. Note: 1.Recently NRL executed the projects of with a Approx. Quantity of 3.5 Lakh MT with the same cost in these states after expiry of the free period . 2. We propose Dump site management / maintenance period to start from the date of receipt of first pipe per lot basis at Dumpsite instead of Last Pipe. Please Confirm.	Tender condition prevails
154	Volume 1 of II : Clause:12.11.4	56 / 273	Formula for Shifting of Remaining Pipes to IGGL designated store & In Case Owner directs the Bidder to Supply the Coated/ Bare Line pipe from Coating Plant/ Pipe Mill to Dumpsite (Other than that mentioned in Bidding Document)/ IGGL designated store.	We sincerely request IGGL to seek fresh transportation rates from bidders maintaining dumpsite for tendered items w.r.t shifting of pipes after completion of paid maintenance period or for new location as it is uneconomical for bidder to maintain transportation charges valid for such a long period of time. This poses financial risk to supplier. However, we understand that the activity has to be carried out as a part of project requirement. Hence, in order to mitigate risk of supplier without affecting project execution we request following changes: A) Bidder requests IGGL that quantity to be transported by supplier at the end of contract for final HOTO should be limited to 5% of order quantity for the given dumpsite. B) Bidder proposes that the transportation charges of said quantity shall be paid at actual cost. Bidder also requests IGGL to limit pipe movement by supplier within 50 km radius of the dumpsite.	Tender condition prevails



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**REPLIES TO BIDDER'S PRE-BID QUERIES DATED 20.05.2022**

**SUPPLY OF BARE & COATED PIPES  
FOR  
NORTH EAST GAS GRID PHASE-III OF IGGL, ASSAM**

**TENDER ID: VCS21000017**

**Tender No.: C2201052-VCS-IGGL-TENDER-001 Dtd 28.04.2022**



Sl. No.	Tender Clause No.	Tender Page No.	Description	Bidder's Query/Clarification	IGGL/VCS Reply
155	Volume I of II : Clause:19	265 / 273	Repeat Order In partial modification to GCC clause no. 40, Repeat Order shall be applicable upto 20% of the ordered quantity within contractual delivery period or 03 (three) months from the date of Fax of acceptance, whichever is earlier.	Please note that it will not be commercially viable to procure steel in small quantity (A2 & A3) within contractual delivery period or three months from the date FOA. We request you to limit repeat order within 45 days instead of contractual delivery period or three months of date of issue of FOA to maximum 20 % of the ordered quantity so that additional steel quantity can be manufactured with original quantity.	Tender condition prevails
156	Volume I of II : Clause:33	65 / 273	Quantity Variation Where nature of items is such that the items cannot be supplied in exact quantity of the Purchase Order as in case of cables/ steel/ chemicals etc., quantity tolerance upto $\pm 5\%$ may be allowed, if there is no specific quantity variation/tolerance criteria in SCC. For such tolerance, separate amendment to Purchase Order would not be necessary.	1. We understand that the subject clause is not applicable for the said procurement. Please Confirm. 2. We also understand that there is no variation in the said tender. Please Confirm.	Confirm
157	Volume II of II : Clause:2	9 / 246	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 and Dumpsite wise basis. Please confirm	The tolerance applies item-wise



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**CORRIGENDUM #1****SUPPLY OF BARE & COATED PIPES  
FOR  
NORTH EAST GAS GRID PHASE-III OF IGGL, ASSAM****Tender No.: C2201052-VCS-IGGL-TENDER-001 Dated 28.04.2022****Date : 20.05.2022****TENDER ID: VCS21000017****Project : NORTH EAST GAS GRID PHASE-III OF IGGL,  
ASSAM****Owner : INDRADHANUSH GAS GRID LIMITED (IGGL)**

Sl. No.	Description	Page No.	Clause/ Para/ Section	Amendment/ Addition/Modification/Deletion	Details
1	Delivery Schedule	261/273	Clause 4.1.2.1 of SCC	Deletion	Clause 4.1.2.1 of SCC shall replaced and read as: "The lot wise delivery Schedule for each item shall be as per Section II of Commercial Tender"
2	Public Procurement Policy for Micro & Small Enterprises (MSE)	69/273	Clause 40.3 of ITB of Commercial Vol I of II	Modification	<p>Clause 40.3 of ITB shall replaced and read as:</p> <p>In case Bidder is a Micro or Small Enterprise, the Bidder shall submit the following:</p> <p>(i) Ministry of MSME vide Gazette notification no. CG-DL-E-26062020-220191 dated 26.06.2020 had notified certain criteria for classifying the enterprises as Micro, Small and Medium Enterprises and specified form and procedure for filing the memorandum (Udyam Registration) w.e.f. 01.07.2020 (for complete details of policy refer website of Ministry of MSME i.e. <a href="https://msme.gov.in/">https://msme.gov.in/</a>).</p> <p>Accordingly, Micro and Small Enterprises (MSEs) shall be required to submit Udyam Registration Certificate for availing benefit under Public Procurement Policy for MSEs-2012.</p> <p>(ii) An enterprises registered prior to 30.06.2020 and who are not re-registered with Udyam Registration, shall continue to be valid for a period upto 30.06.2022. Such enterprise shall submit EM Part-II or Udyog Aadhaar Memorandum (UAM) for availing benefits of PPP-2012.</p> <p>The above document(s) submitted by the Bidder shall be duly certified by the Chartered Accountant (not being an employee or a Director or not having any interest in the bidder's company/firm) and notary public with legible stamp.</p> <p>If the bidder does not provide the above confirmation or appropriate document or any evidence, then it will be presumed that they do not qualify for any preference admissible in the Public Procurement Policy (PPP) 2012.</p> <p>The Public Procurement Policy for MSEs is meant for procurement of only goods produced &amp; Services rendered by MSEs. The benefit of policy are not extended to the traders/dealers/ Distributors/Stockiest/Wholesalers.</p>
3	Revised Lotwise Pipe Qty for item A1	15 of 273 of Volume-I & 10 of 246 of Volume-II	Clause 1.3 of BEC of Volume-I & Table under Note-9 of Clause 6.0 of Material Requisition of Volume-II	Modification	Table provided in mentioned clauses shall be replaced and read as specified in " <b>Attachment-1</b> "

**Note:**

- 1. All other terms & conditions of tender document remain unaltered.**
- 2. This Corrigendum issued shall be an integral part of tender document.**
- 3. Bidder to submit signed & stamped copy of this Corrigendum along with their Un-Priced bid as a token of acceptance.**



**NORTH EAST GAS GRID PHASE-III OF IGGL**

**LOTWISE REVISED PIPE QTY FOR ITEM A1**

Item No	Pipe Size (Inch/mm)	Thk (mm)	Total Qty (m)	Dump Site location Code	Total Qty (m) Dump Site Wise	Required quantity in each storage Yard/Dump Site/Warehouse Lot Wise		
						Lot-1 (m)	Lot-2 (m)	Lot-3 (m)
<b>COATED PIPE</b>								
A1	12.750” (323.8) (Coated) API 5L X70 PSL 2	7.14	272120	<b>DIMAPUR-KOHIMA-IMPHAL PIPELINE SECTION</b>				
				DS-1	39680	20000	17000	2680
				DS-2A	41920	<b>20000</b>	15000	<b>6920</b>
				DS-3A	54570	<b>20000</b>	20000	<b>14570</b>
				<b>SILIGURI – GANGTOK PIPELINE SECTION</b>				
				DS-4A	56320	<b>20000</b>	20000	<b>16320</b>
				DS-5A	47360	<b>20000</b>	20000	<b>7360</b>
				DS-6A	32270	20000	12270	-
A2	12.750” (323.8) (Coated) API 5L X70 PSL 2	8.38	35800	<b>DIMAPUR-KOHIMA-IMPHAL PIPELINE SECTION</b>				
				DS-2B	7680	7680	-	-
				DS-3B	15360	15360	-	-
				<b>SILIGURI – GANGTOK PIPELINE SECTION</b>				
				DS-4B	3800	3800	-	-
				DS-5B	6400	6400	-	-
DS-6B	2560	2560	-	-				
<b>TOTAL QTY (m) (A1+A2)</b>			<b>307920</b>	-	<b>307920</b>	<b>155800</b>	<b>104270</b>	<b>47850</b>



## NORTH EAST GAS GRID PHASE-III OF IGGL

BARE PIPE								
Item No	Pipe Size (Inch/mm)	Thk (mm)	Total Qty (m)	Bare Pipe Sstorage location Code	Total Qty (m) to be kept in Line pipe Manufacturing Plant	Required quantity to be kept in Line pipe Manufacturing Plant (Lot Wise)		
						Lot-1 (m)	Lot-2 (m)	Lot-3 (m)
A3	12.750" (323.8) Bare Pipe API 5L X70 PSL 2	9.53	30000	Note-9.2	30000	15000	-	
						-	15000	-
<b>TOTAL QTY (m) (A1+A2+A3)</b>			<b>337920</b>	<b>-</b>	<b>337920</b>	<b><u>170800</u></b>	<b>119270</b>	<b><u>47850</u></b>