INDRADHANUSH GAS GRID LIMITED
(Joint Venture of IOCL, ONGC, GAIL, OIL and NRL)
GUWAHATI, ASSAM

NORTH -EAST GAS GRID PIPELINE PROJECT (PHASE-1)

REPLY TO PRE BID QUERIES FOR PROCUREMENT OF

BARE & COATED LINE PIPES

OPEN DOMESTIC COMPETITIVE BIDDING

Bid Document No.: 05/51/23UU/IGGL/012

Visit: www.tenderwizard.com/MECON
(Tenderwizard helpdesk: 011-49424365)

PREPARED AND ISSUED BY

MECON LIMITED
(A Govt. of India Undertaking)
Delhi, India

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
1				With reference to Mill Qualification Criteria, we request you to kindly allow the Bidder who had supplied Pipes to IGGL/GAIL/ ONGC/ IOCL/OIL/NRL in the last 7 year of same or higher size and material grade from their Proposed Mill need not to submit the Mill qualification Certificate as per tender document to avoid extra paper work and time since we have PTR for Supply of Same or Higher Bare Pipes with above referred PSU's.	Please refer Corrigendum # 1
2				With reference to Coating Plant Qualification Criteria, we request you to kindly allow the Bidder who had Carried Out Coating Application to IGGL/GAIL/ ONGC/IOCL/OIL/NRL in the last 7 year of same or higher size from their Proposed Coating Plant need not to submit the Coating Plant qualification Certificate as per tender document to avoid extra paper work and time since we have PTR for Coating of Same or Higher Pipes with above referred PSU's.	Please refer Corrigendum # 1
3				We would like to mention that considering the Lead Time of 3-4 Months for imported Steel and the Transit time of atleast 15-20 days at Site, we request you to extend the first lot of Delivery by one Month, keeping the last Lot delivery same	Tender conditions prevail
4				Locating Land in Assam region is very difficult and also it is very costly, we thereby request that after free period of 3 Months, Supplier will be entitled for payment of at least Rs 25000/- (exclusive of GST) instead of Rs 10500/- (exclusive of GST).	Tender conditions prevail
5				We request you to kindly keep the repeat Order upto 3 Months from the date of FOA only.	Please refer Corrigendum # 1
6				We request you to amend the Payment Terms as per GAIL Tenders i.e 70% against Dispatch Documents 20% agasint receipt of Pipes at Site 10% same as mentioned in this tender	Tender Conditions Prevail
7				We also request that Documents mentioned in Technical Document/ Material Requisition should be shifted to 10% payment instead of 90% or 70% whichever is applicable as these are Final Technical documents and shall be submitted after completion of Supplies	Tender Conditions Prevail
8	MS CL. 5.3.1	EXTERNAL THREE LAYER POLYETHYLENE COATING	Properties of Adhesive	As advised by manufacturer, they will provide Batch certification for adhesive (ME0420) with measured values for Density, MFI and water content whereas the Specific Gravity ,VICAT, Tensile and Elongation will be typical values supported by reputed lab reports. For your information and confirmation from company/Mecon	Tender Conditions Prevail
9	MS CL. 5.3.2	EXTERNAL THREE LAYER POLYETHYLENE COATING	Properties of Polyethylene Compound	As advised by manufacturer, they will provide Batch Certificate of Analysis for polyethylene with measured values for Density, Specific Gravity, MFI ,OIT, Carbon Black Content, Moisture Content & Total Volatiles. The properties – Elongation, Tensile and VICAT, Hardness, Melting Point, ESCR, Volume Resistivity, Dielectric Constant and Water Absorption (valid for one year) and Coating Resistivity UV & Light aging (valid for 3 years) will be typical values supported by reputed lab reports. The Bond Strength, Impact Strength, Indentation Hardness, Extruded top coat Elongation at failure and Cathodic Disbondment will be typical values supported by reputed lab reports. Other information will be provided through COA and Data Sheet For your information and confirmation from company/Mecon	Tender Conditions Prevail
10	MS CL. 5.3.3	EXTERNAL THREE LAYER POLYETHYLENE COATING	Resistivity Test, Heat Ageing & Light Ageing	These tests are long term tests exclusively applicable for PE top coat material and usually conducted by manufacturer once in three years using specialized equipments. Hence we propose to obtain MTC/ test report from PE manufacturer once in a project and same will be submitted to company/contractor for review and acceptance. For your information and confirmation from company/Mecon	Heat Aging, Volume Resistivity and Aging under exposure to light are acceptable . These test certificates shall not be older than three years. Bidder to comply bid requirements.

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
11	MS CL 8.6.1, 8.13.1	EXTERNAL THREE LAYER POLYETHYLENE COATING	Phosphoric Acid / Chromate solution concentration	As per clause, pretreatment solution concentration shall be 10%. RESPONSE: To maintain required concentration is practically very difficult, hence we propose to maintain pretreatment solution concentration within 10±2% instead of exact 10%. For your information and confirmation from company/Mecon.	Tender Conditions Prevail
12	M S CL 5, 5.2 & 5.3	INTERNAL LINING	Coating Material	For Please note that we shall obtain MTC for the following: • Particular requirement for qualification of the coating material. • Particular requirement for qualification of the cured paint film. For above mentioned properties, we shall submit MTC for review and acceptance. For your information and confirmation from company/Mecon.	Tender Conditions Prevail
13	ITP (05/21/14B/005) SL. No. 6 Page (4 OF 7)	INTERNAL LINING	For Internal Liquid Epoxy Coating	For the following special long term tests, Test Report obtained from paint manufacturer will be provided to company / Mecon for review and acceptance. a) Resistance to Neural salt Spray; b) Resistance to Gas Pressure Variation; c) Resistance to Chemicals; d) Resistance to Hydraulic Blistering. For your information and confirmation from company/Mecon.	Please refer cl. no. 5.5 of Tech. Spec. no. MEC/TS/05/21/014B Tender conditions prevail.
14	ITP SL. No. 6 Page (2414 of 256)	INTERNAL LINING	Scope Of Inspection	As per clause , under heading scope of inspection & sub-heading VENDOR, VENDOR TPI and MECON the scope of inspection is given as W= Witness & H = Hold respectively. Please note that as these tests are to be carried out by raw material supplier. Hence we propose that the scope of inspection for VENDOR, VENDOR TPI & MECON shall be R = Review of documents supplied by raw material supplier against the mentioned test. For your information and confirmation from company/Mecon.	Plesae refer the ITP in conjuction with TS.Tech. Spec. no. MEC/TS/05/21/014B Tender conditions prevail.
15	CS CL: 1		API 5L Specification	As per CS CL: 1 “This specification establishes the minimum requirements for the manufacture of submerged arc longitudinal welded steel line pipe in accordance with the requirement of API 5L 45th Edition 2012 and makes restrictive requirements to PI specification 5L. ” Since as on date the latest edition of API 5L is 46th Edition; hence we will specify same in all the technical documents preparation. Please confirm.	Please refer Corrigendum # 1
16	CS CL: 9.13.1		Vee block	As per CS CL: 9.13.1 “Forming and welding operations shall be conducted to minimize coil edge offset and distortion and peaking at longitudinal seam. The manufacturer shall provide appropriate tooling with ‘Vee’ blocks and calibrated dial indicators needed to measure the distortion and misalignment at the seam.” Since plate misalignment can directly be measured with dial gauge hence we understand Vee block need not be required for measuring the same. Please confirm.	Tender conditions prevail

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
17	CS Annex D CL D.2.3.2.1		Oxygen Cutting	As per CS Annex D CL D.2.3.2.1 "In addition to the API Spec 5L requirements, the test piece edge shall be machine cut. Oxygen cut is not allowed" Please note that we cut out samples from the pipes by using flame cutting keeping a machining allowance of around 10 – 15 mm for final machining/grinding for sample preparation. Please confirm.	Tender conditions prevail
18	54 of 230 (Vol-I)	ITB CLAUSE NO 12.8.1	After Free period supplier will be entitled for Payment of 10500/- Excluding GST for Paid period of 24 months.	Please note that the amount of 10500/- per day excluding GST is not workable amount. So we propose the amount of Rs 15000/- per day excluding GST instead of 10500/-per days excluding GST.Also please note that the paid period of 24 months is very longtime . So it is very difficult to maintain the dumpsite for 24 months as it is not our expertise area. So we request you to please amend the same as 12 months instead of 24 months or you may place the dumsite contract to laying contractor scope.	Tender Conditions Prevail
19	Page 228 of 230 (Vol-I)	Annexure-II to SCC : Payment Terms	i) 90% of Inv Value will be paid progressively against Receipt of Coated Pipes ii) Balance 10% amount of Invoice value shall be paid progressively within 30 days	**Please amend the payment terms as "** (i) 70% of item value along with 100 % GST of invoiced value will be paid progressively after dispatch of coated line pipes to warehouse /storage yard/ dumpsite against submission of invoice in triplicate as per GST Act duly certified by PMC/EIC. (ii) 25% of Invoice value will be paid progressively against receipt of coated pipes at warehouse/ storage yard/ dumpsite by Purchaser / Consultant after adjustment against monthly PRS and against submission of invoice in triplicate (III) Balance 5 % amount of the invoice value shall be paid progressively within 30 days after handing over of coated pipes to the laying contractor and receipt of final technical document (if any) as specified in the PR. However, in case pipes could not be lifted even 3 months beyond CDD / from last pipe delivered at dumpsite (whichever is later), 5% payment may be released to Linepipe supplier against submission of equivalent amount of BG with a validity of minimum 3 months which can be further extended up to handing over of last pipe to the laying contractor/ IGGL's Designated store/ IGGL authorized agency	Tender Conditions Prevail
20	1	MECON SPEC: MEC/TS/05/21/012 REV.1, EDITION 3, APR 2016	This specification establishes the minimum requirements for the manufacture of High frequency welded steel line pipe in accordance with the requirements of API (American Petroleum Institute) Specification 5L, Forty—Fifth Edition, 2012	Pipe shall be manufactured and inspected as per latest edition of API 5L (46th Edition).	Please refer Corrigendum # 1
21	9.11.3.3	MECON SPEC: MEC/TS/05/21/012 REV.1, EDITION 3, APR 2016	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	Proposed length: 10.0 to 11.5 m can also be accepted for a maximum of 10% of ordered quantity. Minimum average length shall be 11.50 m.	Tender conditions prevail
22	9.11.3.4	MECON SPEC: MEC/TS/05/21/012 REV.1, EDITION 3, APR 2016	The local deviation from straight line in 1.0 m (3.0 ft) portion at each pipe end shall be ≤ 3.0 mm (0.120 in), as shown in figure 2 of API Spec 5L.	This requirement is as per 45th edition of API 5L. It is modified in 46th edition of API 5L as under: "The local deviation from straight line in 1.5 meter portion at each pipe end shall be ≤3.2 mm."	Tender conditions prevail
23	B.1.2	MECON SPEC: MEC/TS/05/21/012 REV.1, EDITION 3, APR 2016	Manufacturing Procedure Qualification for PSL 2 Pipe.	MPQT shall not be applicable to order quantity <5km for each item	Tender conditions prevail

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
24	B.5.2 c)	MECON SPEC: MEC/TS/05/21/012 REV.1, EDITION 3, APR 2016	CVN impact test shall be performed on test pieces extracted as follows: -Four (4) sets of three (3) transverse test pieces each from base metal - One (1) set of three (3) transverse test pieces with weld in middle -One (1) set of three (3) transverse test pieces with HAZ in middle	We understand that these 4 sets from base metal are to be tested at different temperatures as per cl. no. B.5.2 c) v (Fracture Toughness Testing) for shear area and absorbed energy to produce full transition curve.	Bidder understanding is correct, Tender conditions prevails.
25	B.5.2 d	MECON SPEC: MEC/TS/05/21/012 REV.1, EDITION 3, APR 2016	Burst pressure of the subjected pipe shall not be less than the calculated burst pressure based on the minimum actual Ultimate Tensile Strength of the subjected pipe	Practically it is not possible to get actual tensile strength of the pipe, So it would be risky to test by considering test value of sample test. We propose burst test pressure shall be calculated based on SMUTS.	Tender conditions prevail
26	1	MECON SPEC: MEC/TS/05/21/021C REV.1, EDITION 3, APR 2016	This specification establishes the minimum requirements for the manufacture of Submerged arc helical welded steel line pipe in accordance with the requirements of API (American Petroleum Institute) Specification 5L, Forty—Fifth Edition, 2012.	Pipe shall be manufactured and inspected as per latest edition of API 5L (46th Edition).	Please refer Corrigendum # 1
28	9.3.2	MECON SPEC: MEC/TS/05/21/021C REV.1, EDITION 3, APR 2016	The ratio between yield strength and tensile strength for weld metal of finished expanded pipe shall not exceed 0.90, when tested using cylindrical all weld specimen.	All weld tensile test is consumable test. YS/UTS ratio shall not applicable. YS, UTS & %El shall meet the specific minimum requirement of steel grade or as per ASME section IIC.	Tender conditions prevail
29	Table-10	MECON SPEC: MEC/TS/05/21/021C REV.1, EDITION 3, APR 2016	Out-of-roundness Tolerance: Pipe end 0.005D.	As per API 5L, Out of roundness tolerance for pipe end is 0.015D maximum. (For 610.00 mm OD : 9.15 mm maximum) It is not possible to maintain such close tolerance of 0.005D. We propose for 0.010D for Out of roundness tolerance for pipe. (For 610.00 mm OD: 6.10 mm Maximum).	Tender conditions prevail
30	9.11.3.3	MECON SPEC: MEC/TS/05/21/021C REV.1, EDITION 3, APR 2016	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	Proposed length:	Tender conditions prevail
31	9.11.3.4	MECON SPEC: MEC/TS/05/21/021C REV.1, EDITION 3, APR 2016	The local deviation from straight line in 1.0 m (3.0 ft) portion at each pipe end shall be ≤ 3.0 mm (0.120 in), as shown in figure 2 of API Spec 5L.	10.0 to 11.5 m can also be accepted for a maximum of 10% of ordered quantity.	Tender conditions prevail
32		MECON SPEC: MEC/TS/05/21/021C REV.1, EDITION 3, APR 2016	As an alternate, all weld tensile test shall be carried out as per ASME Section II, Part-e and test piece shall have gauge length, L = 5d, where, 'L' is the gauge length (mm) and 'd' is the diameter (mm) of the test piece.	As per ASME Sec. 2C, Cl No. 12.1, Gauge length L=4D, Please confirm	Tender conditions prevail
33	10.2.7	MECON SPEC: MEC/TS/05/21/021C REV.1, EDITION 3, APR 2016	Visual examination shall be carried out in a sufficiently illuminated area; minimum 1000 lx.	As per API 5L, illumination in min 300 lx. We propose for min 500 lx.	Tender conditions prevail
34	B.5.2 (b)	MECON SPEC: MEC/TS/05/21/021C REV.1, EDITION 3, APR 2016	The weld seam shall be examined ultrasonically by automatic ultrasonic equipment. All Ultrasonic indications suggesting imperfections in the weld shall be carefully investigated against the corresponding points on the radiographs.	Indication of Auto UT shall be checked with Manual UT, If any suspected indication found same shall be checked with Radiography.	Bidder understanding is correct, Tender conditions prevail
35	B 5.2 c	MECON SPEC: MEC/TS/05/21/021C REV.1, EDITION 3, APR 2016	The weld seam of all pipes shall be examined radiographically for the entire length.	We propose real time radiography for entire weld seam of PQT pipes.	RTR may be performed in addition to the requirement of this clause. Tender Conditions Prevail.

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
36	B 5.2 d (ii)	MECON SPEC: MEC/TS/05/21/021C REV.1, EDITION 3, APR 2016	Two (2) cylindrical all-weld test pieces from helical weld.	As mention in table-18, All weld test shall be carried out Once (i.e. one sample) and same is repeated in case of combination of flux wire classification is changed.	Tender conditions prevail
37	B 5.2 e	MECON SPEC: MEC/TS/05/21/021C REV.1, EDITION 3, APR 2016	Burst pressure of the subjected pipe shall not be less than the calculated burst pressure based on the minimum actual Ultimate Tensile Strength of the subjected pipe	Practically it is not possible to get actual tensile strength of the pipe, So it would be risky to test by considering test value of sample test. We propose burst test pressure shall be calculated based on SMUTS.	Tender conditions prevail
38	4.2	External coating: Customer Spec. No. MEC/S/05/21/014 Rev. 0, Edition 01 dated. Feb. 2008	The coating materials Manufacturer shall carry out tests for all properties specified in Para 5.3.1 and 5.3.2 for each batch of epoxy, adhesive and polyethylene compound.	We would like to bring in your notice that, the coating material manufacturer shall mention all required test value or typical value for each batch in test certificate. For some test, value may be typical value which are certified by reputed lab in past. Please confirm	Tender conditions prevail
39	4.3	External coating: Customer Spec. No. MEC/S/05/21/014 Rev. 0, Edition 01 dated. Feb. 2008	In addition to manufacturer's certificate the contractor shall draw samples from each batch of epoxy, adhesive and polyethylene in presence of COMPANY representative and test for the following Polyethylene c) iv, Moisture content	We would like to bring in your notice that we have not found moisture contest test acceptance criteria and test method. We request you to provide us with the same. In addition we conclude that test should be performed as per specification cl. no. 5.3.2 (e) water absorption test with of Tech. Spec. no. MEC/S/05/21/014. If same is required, please confirm.	Bidder understanding is correct. Tender conditions prevail
40	8.6.1	External coating: Customer Spec. No. MEC/S/05/21/014 Rev. 0, Edition 01 dated. Feb. 2008	All pipes shall provided chemical pre-treatment with phosphoric acid solution. 10% solution of phosphoric acid, Oakite 31 / 33 or equivalent, shall be used to remove all soluble salts and other soluble contaminations.	Exact 10% is not practical; we will maintain it min. as 10% or 10+/-2% or as per material manufacturer recommendation. Please confirm	Tender conditions prevail
41	8.13.1	External coating: Customer Spec. No. MEC/S/05/21/014 Rev. 0, Edition 01 dated. Feb. 2008	Following completion of abrasive blast cleaning, all pipe surfaces shall be chemically Pre-treated with a 10% strength chromate solution.	Exact 10% is not practical; we will maintain it as min. 10% or 10+/-2% or as per material manufacturer recommendation. Please confirm	Tender conditions prevail
42	9.2.7	External coating: Customer Spec. No. MEC/S/05/21/014 Rev. 0, Edition 01 dated. Feb. 2008	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.	Such instrument (i.e. infrared gun) calibration requires specialized equipped laboratory. We propose review of NABL lab calibration certificated and recording adhesive and polyethylene temperature once per hour. Please confirm	Bidder has to show valid NABPL approved Lab calibration certificate of infrared gun before start of production. Tender conditions prevail
43	8.5.ii	External coating: Customer Spec. No. MEC/S/05/21/014 Rev. 0, Edition 01 dated. Feb. 2008	The system shall fail cohesively either in adhesive layer or in polyethylene layer. Failure at epoxy to steel interface or epoxy/adhesive interface or adhesive/ polyethylene interface shall not be permitted. The failure mode shall be recorded for each test.	We have to use " Grafted co-polymer adhesive " as per cl no. 4.3.2 & 9.2.1 (ii) In this kind of material, Cohesive failure may not occur always and the required bond strength is achieved. Hence cohesive failure may not occur or when cohesively failure occurs its meeting the specified criteria. Please confirm	Tender conditions prevail
44	1b	Customer Specification No.: QAP of standard specification. MEC/TS/05/21/014B, Rev. 01 Dated. Apr-2016	Raw Material Inspection of Coating Paint & Hardener for qualification of coating material	We understand that this requirement is for raw material supplier and not for plant applied coating. please confirm	Tender conditions prevail

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
45	6	Customer Specification No.: QAP of standard specification. MEC/TS/05/21/014B, Rev. 01 Dated. Apr-2016	Cured paint film on steel panel, 5 no. sample Procedure qualification test and repair procedure qualification test On start of production / each change of manufacturer / each change of manufacturer / each change of plant (5 No. pipes to be selected from coated 25 pipes)	We propose all tests for PQT and production will be as per table 5 of customer's specification. Rest all tests in Sl. no. 6 of standard QAP, test numbers 1 to 9 are for review of paint manufacturer report. please confirm	Plesae refer the ITP in conjuction with TS.Tech. Spec. no. MEC/TS/05/21/014B Tender conditions prevail.
46		1.0 Scope	This specification establishes the minimum requirements for the manufacture of longitudinal seam submerged arc welded steel line pipe in accordance with the requirements of API (American Petroleum Institute) Specification 5L, Forty Fifth Edition, 2012 and makes restrictive amendments/ Supplements to API Spec. 5L	AMNS clarify that API 5L 45th edition 2012 is superseded by latest edition of API 5L 46th edition 2018. Hence all technical requirement shall be compliance as per latest edition of API 5L.	Please refer Corrigendum # 1
47		8.4 Tack welds	Tack welds shall be made by a continuous process only. Any repair in tack welds shall be performed before start of Submerged Arc Welding (SAW) of seam.	AMNS clarify that if any discontinuity found in auto GMAW (Tack) welding on pipes, the same shall be rectify by using semi auto GMAW welding process.Before start of Submerged Arc Welding (SAW) of seam.	Bidder understanding is correct Tender Conditions Prevail.
48		9.3.2 Tensile properties	The ratio between yield strength and tensile strength for weld metal of finished expanded pipe shall not exceed 0.90, when tested using Cylindrical all weld specimen.	AMNS propose that Ys / UTS ratio for cylindrical all weld tensile test shall be reported for information purpose only.	Tender Conditions Prevail
49		10.2.3.2	For all weld tensile test during MPQT, round cross section test piece shall be prepared in accordance with ASTM A370. As an alternate, all weld tensile test shall be carried out as per ASME Sec II, part –C and test piece shall have gauge length L=5d, where, "L" is the gauge length (mm) and 'd' is the diameter (mm) of the test piece.	AMNS clarify that cylindrical all weld tensile test shall be carried out as per ASME Sec. IIC / ASTM A370 standard at gauge length L= 4d only. As per both international code specified that for cylindrical tensile test gauge length shall be carried out at 4d only.	Tender Conditions Prevail
50		Annex B d. Mechanical Properties ii. Tensile test	Manufacturing Procedure Qualification for PSL 2 Pipe Cylindrical all weld tensile test shall be carried out to determine the yield strength, tensile strength and elongation during MPQT and whenever there is change in the batch of electrode or wire & flux combination. The results of the test shall meet the minimum requirements of the plate with regard to yield strength and tensile strength. The minimum elongation shalll be determined in accordance in accordance with the formula give in foot note (f) of table 7 of API spec. 5L; however minimum elongation in no case shall be less than 20%.	AMNS clarify that we shall carry out all weld tensile test as per ASME Sec. IIC. / ASTM A370. The test results shall meet the minimum requirements of the plate with regard to yield strength (Ys) and tensile strength (UTS), And minimum elongation shall meet 20%. At gauge length at 4d. We also clarify that (Ys/UTS) ratio requirement shall not require.	Tender Conditions Prevail

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
51		3LPE COATING TECHNICAL SPEC. NO. MEC/S/05/21/014 4.2	The coating materials Manufacturer shall carry out tests for all properties specified in para 5.3.1 and 5.3.2 for each batch of epoxy, adhesive and polyethylene compound	Confirmation received from Borouge lease receive comments on 3-Layer Polyethylene Coating of Line pipes MECON Spec MEC/S/05/21/014:: 4.4 Materials : Bags will be printed other than date of expiry and manufacturing 5.3.1 Properties of Adhesive Recommended Grade ME420. Borealis will provide Batch certification for adhesive ME0420 with measured values for Density, MFI and water content whereas the Specific Gravity ,VICAT, Tensile and Elongation will be typical values supported by reputed lab reports. 5.3.2 Properties of Polyethylene Compound Recommended Grade HE3450/HE3450-H.Borouge manufacturing plant will provide Batch Certificate of Analysis for HE3450/HE3450-H with measured values for Density, Specific Gravity, MFI ,OIT, Carbon Black Content, Moisture Content & Total Volatiles. The properties - Elongation, Tensile and VICAT, Hardness, Melting Point, ESCR, Volume Resistivity, Dielectric Constant and Water Absorption (valid for one year) and Coating Resistivity UV & Light aging (valid for 3 years) will be typical values supported by reputed lab reports. The Bond Strength , Impact Strength, Indentation Hardness, Extruded top coat Elongation at failure and Cathodic Disbondment will be typical values supported by reputed lab reports. Annex 1: Please add Borouge /Borealis in list of approved grade of materials.	Tender Conditions Prevail
52		3LPE COATING TECHNICAL SPEC. NO. MEC/S/05/21/014 5.3.3 e,f,g	Coating Resistivity, Heat Ageing, Light Ageing (Test carried out in an independent laboratory of national/ international recognition on PE top coat is also acceptable)	We do not have facility to carry out this test as well in India too. Test report will be provided for review which receives from RM manufacturer	Bidder understanding is correct Tender Conditions Prevail.
53		3LPE COATING TECHNICAL SPEC. NO. MEC/S/05/21/014 5.3.3 h	Cathodic Disbondment as per ASTM G-42	We do not have facility as per ASTM G 42 We can propose to carry out this test as per DIN 30670 or ISO 21809-1	Bidder understanding is correct
54		LIQUID EPOXY COATING TECHNICAL SPEC NO. MEC/TS/05/21/014B 5.1	Unless otherwise agreed, the coating material shall be qualified in accordance with 5.2 and 5.3 and shall not be changed after qualification.	Qualification records provided by RM manufacturer will be submitted for client / TPIA acceptance	Tender Conditions prevail
			5.2	Or	
			Non-volatile matter (by mass)		
			Non-volatile matter (by volume)	Paint qualification Testing to be done at external / GIRDA lab or	
			Viscosity		
			Density		
			Ash (residue on ignition)		
			Pot life		
			Infrared spectrograms		
			Appearance.		
			5.3		
			Dry film thickness		
			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		

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
			Resistance to hydraulic blistering		
55			Final technical file shall be supplied in hard copy as indicated, and in electronic format (.pdf Acrobat files) on six (6) CD-ROMs	2 Set Hard Copy + 2 Set Soft Copy	Tender Conditions prevail
56	ITB Clause No.38 Sub Clause No.38.1	Contract performance Bank Guarantee/Security Deposit		Bidder proposes that submission of Bank Guarantee (CPBG) for an amount equal to 5% of the total contract value and to be submitted for 13 months in the beginning. Later, it will be extended by additional 18 months.	Tender Conditions Prevail
57	ITB Clause 15	Purchase Preference		Bidder understands PP-LC Policy is applicable for subject tender. Please Confirm. Please also confirm margin of purchase preference applicable for subject tender.	Purchase Preference linked with Local Content is not applicable for instant tender.
58	ITB Bidding Data Sheet (BDS) Clause 15	Bid Validity		Bidder proposes to kindly revise Bid Validity period to 2 months from 'Bid Due Date', as it is difficult to get Competitive Steel Price Commitments for such longer period.	Tender Conditions Prevail
59	ITB Clause 12.8	Storage and Preservation		Bidder request to reduce the storage period from 24 months to 12 months ,after Free period of 3 months .	Tender Conditions Prevail
60	GCC Clause 17	Transportation		Bidder needs clarification for the loading pattern of pipes in each trailer/Vessel/Rack i.e exact number of pipes to be loaded in each trailer/vessel/rack based on pipe diameter.	Tender Conditions Prevail
61	SCC Clause No. 12. Sub Clause No.12.1	Insurance		Bidders request to kindly furnish clarification for Transit and Dumpsite Insurance as the point" to the satisfaction for the employer"	Tender Conditions Prevail
62	SCC Clause No. 19. Sub Clause No.19.1	Repeat Order		Bidder propose this time for communication should be within 30 days from the date of LOA/PO, as 6 months period is avery long time and it is difficult to Steel Price Commitment. Hence it shall have commercial impact	Please refer Corrigendum # 1
63	SCC Clause No. 4. Annexure-I to SSC	Delivery Schedule		Bidder propose for continuous Delivery of Pipes without break between 3rd& 4th Lot, as it becomes difficult to get Competitive Steel Price Commitment for such longer period, thereby having higher commercial impact on project.	Tender Conditions Prevail
64	General	Bid Process Fees		Bidder request to please advise us if Tender Process Fee charges to be paid in-addition to payment of registration fees on www.tenderwizard.com/MECON portal.	Bidder understanding is correct
65	Clause 1.0	MEC/TS/05/21/012B, Rev.01, Ed-3, Dated: 13.04.2016 and MEC/TS/05/21/012C, Rev.01, Ed-3, Dated: 13.04.2016	This specification establishes the minimum requirements for the manufacture of longitudinal seam submerged arc welded/ helical seam submerged arc welded steel line pipe in accordance with the requirements of API (American Petroleum Institute) Specification 5L, Forty Fifth Edition, 2012 and makes restrictive amendments to API Spec. 5L. Unless modified and or deleted by this specification, the requirements of API Spec. 5L shall remain applicable.	Bidder intent to clarify that longitudinal seam submerged arc welded/ helical seam submerged arc welded SAWL/SAWH pipes shall be manufactured, inspected & tested in accordance with API 5L 46th Edition (April 2018) & Errata-1 (May 2018). Please confirm. Clarification Required	Please refer Corrigendum # 1

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
66		MEC/TS/05/21/012B, Rev.01, Ed-3, Dated: 13.04.2016 and MEC/TS/05/21/012C, Rev.01, Ed-3, Dated: 13.04.2016	Cut to Length (CTL)/Centre slitting Plates.	Bidder intent to clarify that being small diameter pipes, HR coils might be procured in lieu of steel plates. Coils shall be sheared for producing cut to length plates or by centre slitting of length as per client specification. The traceability of heat number and coil number shall be maintained. Please confirm. Clarification Required	Tender Conditions Prevail
67	Clause 9.2.2	MEC/TS/05/21/012B, Rev.01, Ed-3, Dated: 13.04.2016 and MEC/TS/05/21/012C, Rev.01, Ed-3, Dated: 13.04.2016	Element % max C 0.12 Mn 1.60 Chemical Composition	Bidder requests that Table 5 footnote b) of API 5L 46th Edition to be permitted for Carbon – Manganese relation 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 Grade. Clarification Required	Tender Conditions Prevail
68	Clause 9.8.2	MEC/TS/05/21/012B, Rev.01, Ed-3, Dated: 13.04.2016 and MEC/TS/05/21/012C, Rev.01, Ed-3, Dated: 13.04.2016	Pipe Body Test The average (set of three test pieces) absorbed energy value (KvT) for each pipe body test shall be as specified in Table 8 of this specification, based upon full sized test pieces at a test temperature of 0°C (32°F) or at a lower test temperature as specified in the Purchase Order.	Bidder understands that the CVN test temperature for pipe body as 0°C. Please re-confirm. Clarification Required	Bidder under standing is correct,Tender Conditions prevail
69	Clause 9.8.3	MEC/TS/05/21/012B, Rev.01, Ed-3, Dated: 13.04.2016 and MEC/TS/05/21/012C, Rev.01, Ed-3, Dated: 13.04.2016	Pipe Weld and HAZ Weld The average (set of three test pieces) absorbed energy value (KvT) 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.	Bidder understands that the CVN test temperature for weld & HAZ as 0°C. Please re-confirm. Clarification Required	Bidder under standing is correct,Tender Conditions prevail
70	Clause 9.9.1	MEC/TS/05/21/012B, Rev.01, Ed-3, Dated: 13.04.2016 and MEC/TS/05/21/012C, Rev.01, Ed-3, Dated: 13.04.2016	For each test (set of two test pieces), the average shear fracture area shall be ≥ 85 % based upon a test temperature of 0°C (32°F) or at a lower test temperature as specified in the Purchase Order	Bidder understands that the DWT test temperature as 0°C. Please re-confirm. Clarification Required	Bidder under standing is correct,Tender Conditions prevail
71	Clause 9.12.5.7	MEC/TS/05/21/012B, Rev.01, Ed-3, Dated: 13.04.2016 and MEC/TS/05/21/012C, Rev.01, Ed-3, Dated: 13.04.2016	Finished pipe ends 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 understands that pipe ends shall be bevelled as per API 5L i.e. bevel angle 30°-35° and root face 1.6 mm ± 0.8 mm. Please confirm. Clarification Required	Tender Conditions Prevail
72	Clause 10.1.3.1	MEC/TS/05/21/012B, Rev.01, Ed-3, Dated: 13.04.2016 and MEC/TS/05/21/012C, Rev.01, Ed-3, Dated: 13.04.2016	Inspection documents for PSL2 pipes: Inspection certificate 3.2 in accordance with EN 10204 shall be issued for each dispatched pipe by Purchaser's authorized representative.	Bidder requests to clarify that appointment of TPIA & associated cost will be in the scope of pipe manufacturer or client. Please also confirm whether 3.2 certificate for steel is applicable or not. Clarification Required	Aappointment of TPIA & associated cost for Inspection certificate 3.2 in accordance with EN 10204 shall be in the scope of Coated pipe manufacturer only. Tender conditions prevail

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
73	Clause B.5.2 (d, ii) Annex B	MEC/TS/05/21/012B, Rev.01, Ed-3, Dated: 13.04.2016 and MEC/TS/05/21/012C, Rev.01, Ed-3, Dated: 13.04.2016	Cylindrical all weld tensile test shall be carried out to determine the yield strength, tensile strength and elongation during MPQT and whenever there is change in the batch of electrode or wire & flux combination. The results of the test shall meet the minimum requirements of the plate with regard to yield strength and tensile strength. The minimum elongation shall be determined in accordance with the formula given in foot note (f) of Table 7 of API Spec 5L; however, minimum elongation in no case shall be less than 20%.	Bidder understands that minimum elongation for cylindrical all weld tensile test shall be determined in accordance with formula given in foot note (f) of Table 7 of API spec 5L. Please confirm. Clarification Required	The minimum elongation shall be determined in accordance with the formula given in foot note (f) of Table 7 of API Spec 5L; **however, minimum elongation in no case shall be less than 20%.** **Tender conditions prevail.**
74	Clause B.1.2	MEC/TS/05/21/012B, Rev.01, Ed-3, Dated: 13.04.2016 and MEC/TS/05/21/012C, Rev.01, Ed-3, Dated: 13.04.2016	Two Length, each of completely finished pipes from two different heats (i.e. total four pipe length) shall be selected at random for testing as per clause number B.5.1 Clause no. B.1.3 (Note) "In the event of small quantities of pipes ordered against this specification, like those for bends and other similar applications, as specifically called out in the Purchase Order, the manufacturing procedure qualification test as per clause B.5.1 of this specification shall not be carried out. Pipes in such case shall be accepted based on regular production tests." However as per instructions we have performed the MPQT on total 4 pipes (2 pipes from 2 different heats).	Since the order quantity of above line item (A3, A4 and A5) is very small, Bidder request to waive off the MPQT requirements as per clause number B.1.3 (Note). Clarification Required	Tender conditins prevail.
75	Clause D.2.3.2.1 of Annex D	MEC/TS/05/21/012B, Rev.01, Ed-3, Dated: 13.04.2016 and MEC/TS/05/21/012C, Rev.01, Ed-3, Dated: 13.04.2016	In addition to the API Spec 5L requirements, the test piece edge shall be machine cut. Oxygen cut is not allowed.	Bidder intent to clarify that test pieces shall be cut with an additional length for sample preparation when cut from pipe and after that sample shall be prepared by machining. Please confirm. Clarification Required	Tender conditins prevail.
76	Clause E.4.5 & E.4.6	MEC/TS/05/21/012B, Rev.01, Ed-3, Dated: 13.04.2016 and MEC/TS/05/21/012C, Rev.01, Ed-3, Dated: 13.04.2016	Slag-inclusion-type and/or gas-pocket-type imperfections in the weld at pipe ends are not acceptable and shall be treated as per below. Defects found by radiographic inspection: Defects in the weld such as cracks, slag inclusions, porosity and defects in the pipe material shall be removed by cutting off the section of pipe containing these defects. The remaining defect-free section of the pipe will be acceptable provided its length is within the specified minimum length and the weld at the new pipe end contains no defects.	Since the acceptance criteria for slag inclusion type and/or gas pocket type imperfections is not provided in the GAIL specification, bidder will follow the acceptance criteria as per API 5L Annexure E, Table E.5 & E.6. However no imperfection will be accepted within 50 mm (2 inch) from Pipe End and shall be treated as per E.4.6 of GAIL specification. Please confirm. Clarification Required	Tender conditins prevail.
77	Clause E.8 & E.9	MEC/TS/05/21/012B, Rev.01, Ed-3, Dated: 13.04.2016 and MEC/TS/05/21/012C, Rev.01, Ed-3, Dated: 13.04.2016	Plate UT: E.8:The plate, except the longitudinal edges, shall be ultrasonically tested for laminations using an oscillating or straight running pattern of probes in accordance with ISO 10893-9 E.9:The longitudinal edges of the plate shall be 100% ultrasonically inspected in accordance with ISO 10893-9 amended as follows:	Bidder intent to clarify that plate ultrasonic testing shall be carried out at steel mill as per specification and the same shall not be repeated at pipe mill. The results shall be mentioned in RMTC and shall be provided for review. However UT of full length weld seam shall be carried out at pipe mill. Please confirm. Clarification Required	Tender Conditions Prevail.

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
78	Clause 14	MEC/TS/05/21/012B, Rev.01, Ed-3, Dated: 13.04.2016 and MEC/TS/05/21/012C, Rev.01, Ed-3, Dated: 13.04.2016	Production report: The Manufacturer shall provide one electronic copy & six hard copies of acceptance certificates which shall include the results of all tests required as per this specification.	Due to environmental concern bidder request to permit one hard copy and 6 electronic copy of the MRB. Clarification Required	Tender Conditions Prevail.
79		05/51/23UU/IGGL/012	Document Title / Description	Bidder intent to clarify that, For evaluation of this enquiry, We have considered the Standard Technical Specification MEC/S/05/21/014 Rev.0 Edition-1 Dated- Feb. 2008. Please confirm. Clarification Required	Bidder has to consider Tech. Specification of coating attached in the tender documemnt. Tender Conditions Prevail.
80	1	MEC/S/05/21/014 REV.00	SCOPE	Bidder has considered the latest version DIN-30670, 2012 to be followed for 3LPE coating. Please confirm. Clarification Required	Bidder has to consider latest Edition of DIN 30670 for 3LPE caoting , subject to meeting the criteria of Tech. Spec. no. MEC/S/05/21/014.
81	2	MEC/S/05/21/014 REV.00	REFERENCE DOCUMENTS	Bidder understands that all requirements applicable for 3LPE coating have been specified in Doc. No. MEC/S/05/21/014 Rev.0 Edition-1 DTD: FEB. 2008. All reference document, specification, standards & codes shall be applicable only when specifically reference given to the requirements in MEC/S/05/21/014 Rev.0 Edition-1 DTD: FEB. 2008. Please confirm. Clarification Required	Tender Conditions Prevail.
82	2.0v	MEC/S/05/21/014 REV.00	REFERENCE DOCUMENTS	Bidder has considered the latest version CAN/CSA Z245.20-2014 to be followed for 3LPE coating. Please confirm. Clarification Required	Latest version of CAN/CSA Z245.20-2014 to be followed for 3LPE coating, subject to meeting the criteria of Tech. Spec. no. MEC/S/05/21/014.
83	8.6.4	MEC/S/05/21/014 REV.00	After the de-ionised water wash, the pipe shall be dried with dry air and preheated to a temperature of 65°C to 85°C.	Bidder understands that after de-ionised water wash, the pipe shall be dried and preheated with dry air of temperature 65°C to 85°C. Clarification Required	Tender Conditions Prevail.
84	9.2.8	MEC/S/05/21/014 REV.00	The monitoring instruments shall be independent of the temperature control equipment. The instruments shall be calibrated prior to start of each shift.	Bidder intent to clarify that the calibration of temperature measuring device shall be carried out by verification method with another temperature measuring device in each shift. Clarification Required	Tender Conditions Prevail.
85			Application of varnish on external surface of cut back area	Bidder intent to clarify that a single coat of varnish would be applied on external cut back area of both ends in order to prevent rust during storage and transit. Please confirm if the same is acceptable to client. Clarification Required	Tender Conditions Prevail.
86	4	MEC/S/05/21/014 REV.00	INTERNAL LIQUID EPOXY COATING	Bidder has considered the latest version ISO 15741-2016 to be followed for internal flow coating. Please confirm. Clarification Required	The internal coating shall be performed as per latest version of ISO 15741-2016, subject to meeting the criteria of Tech. Spec. no. MEC/S/05/21/014B.
87	5.1	MEC/S/05/21/014 REV.00	The typical operating-temperature range for this type of coating is between -20 °C and 110°C.	Bidder has considered the operating-temperature as 80°C Maximum for internal coating for the evaluation of enquiry. Please confirm. Clarification Required	Tender Conditions Prevail.
88	5.2 & 1b	MEC/TS/05/21/014B & 05/21/14B/005	Raw Material Inspectionof Coating Paint &Hardener for qualificationof coating material	Bidder proposes to submit the raw material manufacturer test certificate for compliance of the few testing [e.g. Non-volatile matter (by volume), Ash residue on ignition & Pot life]. Clarification Required	Bidder understanding is correct Tender Conditions Prevail.

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
89	5.3 & 6.0	MEC/TS/05/21/014B & 05/21/14B/005	Particular requirement for qualifications of the cured paint film	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 Clarification Required	Bidder understanding is correct Tender Conditions Prevail.
90	1.1 (iv) & Cl. No. 7.1.2	MEC/TS/05/21/014B & 05/21/14B/005	v)For Internal Coating of line pipes The minimum dry film thickness shall be 100 Extremities of pipes shall be free of painting over a length of 50±5 mm. ANNEX B The minimum dry film thickness of the coating shall be 80µm above the perks. Cl. No. 7.1.2 Unless otherwise specified or agreed, the minimum dry film thickness of the coating shall be 80 µm above the peaks in the profile of the substrate.	Bidder intent to clarify that there is conflict regarding coating thickness in this tender. We have considered coating thickness as minimum 100µm. Please confirm. Clarification Required	Bidder understanding is correct Bidder has to follow the SOR & MR for minimum External & Internal coating thickness requirement. Tender condition prevails.
91			Woven sacks to be fixed along with metallic bevel protector for internal coated pipes.	Bidder intent to clarify that for internal coated pipes, woven sacks would be fixed along with metallic bevel protector in order to prevent ingress of foreign material inside the pipe. Please confirm if the same is acceptable to client. Clarification Required	Tender Conditions Prevail
92		Section IV - List of forms and formats	Format F-18, Power of Attorney	We will be submitting notarized copy of board resolution letter authorising the signatory to sign the bids. Then will it be necessary to submit Format F-18. Please Confirm.	Tender Conditions Prevail
93	Cl. 12.8	Section III - INSTRUCTIONS TO BIDDERS [ITB]	Storage and Preservation of Coated/Bare Line Pipes at Warehouse	We propose that the Storage and Preservation of Coated/Bare Line Pipes at Warehouse should be for 12 Months instead of 24 Months beyond the free period of 3 months. As it is not feasible to maintain the dumpsite/ warehouse for such long period. Please confirm.	Tender Conditions Prevail
94	Cl. 1.1.3	SECTION-II - BID EVALUATION CRITERIA & EVALUATION METHODOLOGY	Proposed locations of storage yards	Since the Qty in DS-1 (14.5 Km) and DS-2 (14.5 Km) is small, it will be not feasible to maintain the dumpsite. Hence we propose that the Qty of both dumpsite to be merged in one and only one dumpsite/ warehouse instead of two, should be managed. it will be much easier to maintain single dumpsite of large Qty than two with small qty.	Tender Conditions Prevail
95	Cl. 1.1.2	SECTION-II - BID EVALUATION CRITERIA & EVALUATION METHODOLOGY & ANNEXURE-I TO SCC	DELIVERY SCHEDULE	"Delivery Within 48 weeks. Progressively from beginning of 24th week and up to end of 48th week." For Group B: lot 1 - 24th week to 27th week (38 Km) lot 2 - 28th week to 31th week (61.1 Km) lot 3 - 44th week to 48th week (60 Km) We propose to extend the delivery period of lot 2 from 28th week to 35th week and lot 3 from 40th week to 48th week. As Quantity in each lot is less, we have to roll the material in a single campaign. And to keep the material ready for more than 3 month is not feasible. So please consider the above.	Tender Conditions Prevail

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
96	Cl. 1	Annexure-II to SCC - PAYMENT TERMS AND MODE OF PAYMENT	TERMS OF PAYMENT	" 1) 90% of Invoice value will be paid progressively against receipt of coated pipes at warehouse/ storage yard/ dumpsite by Purchaser / Consultant after adjustment against monthly PRS and against submission of invoice in triplicate as per GST Act and other relevant Documents, 2) Balance 10% amount of the invoice value shall be paid progressively within 30 days after handing over of coated pipes to the laying contractor and receipt of final technical document (if any) as specified in the PR." Instead of above, we propose following payment term - "1) 70% of Item value along with 100% GST of invoiced value will be paid progressively after dispatch of coated line pipes to warehouse /storage yard/ dumpsite against submission of invoice in triplicate as per GST Act and other relevant Documents, 2) 25% of Item value will be paid progressively against receipt of coated pipes at warehouse/ storage yard/ dumpsite by Purchaser / Consultant after adjustment against monthly PRS and against submission of invoice in triplicate and other relevant Documents, 3) Balance 5% amount of the invoice value for item shall be paid progressively within 30 days after handing over of coated pipes to the laying contractor and receipt of final technical document (if any) as specified in the PR."	Tender Conditions Prevail
97	Cl. 9.3	MEC/TS/05/21/012, Rev. 01 Date: 13.04.2016	Tensile Properties	The actual yield strength shall be as close as possible to the SMYS but in no case it shall exceed 120MPa. And YS/UTS ≤0.90 As per Table 7 of API5L Yield strength shall be between 485MPa to 635MPa. And YS/UTS ratio not applicable in the HR Coil form. It is applicable only for Pipe.	Tender Conditions Prevail
98	Cl. 9.8.2 & 9.8.3	MEC/TS/05/21/012, Rev. 01 Date: 13.04.2016	CVN Impact Test	"Test temperature for impact test is 0°C or at a lower test temperature as specified in the Purchase Order." We are assuming 0°C temperature for Impact test. Please confirm.	Bidder understanding is correct,Tender Conditions prevail
99			Scope of Work : Dump Site development and maintenance	You will appreciate that dumpsite development and maintenance is not core area of pipe manufacturers. Competency of manufacturers lies in pipe manufacturing and coating at mill. Dumpsite development and maintenance are site work at distant location which can be better managed by EPC contractors or sub-contractors for the specific purpose. In view of this, we request IGGL to limit scope of work of line pipe manufacturers / bidders to FOT site delivery of pipe	Tender Conditions Prevail
100			MoPNG Policy for providing Purchase Preference to the manufactures/services providers (linked with local content) - PP LC	Since import of raw material for manufacturing of coated pipe is allowed, we request IGGL to allow provision of MoPNG Policy (PP-LC) in this tender so as to encourage domestic manufacturers to progressively adopt 'Make in India' practices and add local content value to their goods.	Tender Conditions Prevail

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
101			Authentication of documents to be submitted in support of BEC: Further, TPIA shall provide in addition a certificate toward verification and certificationof documents pertaining to technical Bid Evaluation Criteria (BEC) as per Proforma attached at Appendix-II to ITB of tender and the same will be submitted by the bidderin their bid.	a) We wish to bring it to your notice that recently we have faced extreme difficulty in certification of DVA affidavit from TPIA. None of the TPIA (as mentioned in the tender) is ready to certify DVA affidavit. We request that DVA affidavit should be duly certified by Chartered Engineer and notary public. b) Please note that we had recently certified BQC documents from TPIA for one of GAIL'sTender (E-Tender No. 8000015675).We have observed that same set of documents can be used to qualify for current tender. Please allow us to submit earlier certified BQC documents. This will save a lot of time and efforts.	Tender Conditions Prevail
102			Authentication of documents to be submitted in support of BEC (Technical)		Tender Conditions Prevail
103			Evaluation and Comparison of Bid	Since this tender will be awarded by carrying out reverse auction, we request IGGL to seek unpriced import content declaration (for statutory variation and new duty on import of raw material) at the time of bid submission and priced CIF value and custom duty break up of import content basis final price quoted in the reverse auction.	Tender Conditions Prevail
104			Storage andpreservation of coated/bare pipes at warehouse for 3 months beyond contractualcompletion period or date of last coated pipe received at warehouse whichever is later	We request IGGL that Dump site management / maintenance period to start from the date of receiptof last pipe at Dumpsite per lot.	Tender conditions prevail
105			Storage and Preservation of Coated/Bare Line Pipes at Warehouse for 24 Monthsbeyond the free period of 3 months	1. We request IGGL that after free period of three months, Supplier / Contractor shall be entitled for payment of Rs.10,500/- (exclusive of GST) per day per dumpsite for storage and preservation of coated/bare line pipes at warehouse for 12 months beyond the free period of 3 months and shall be applicable only for warehouse maintained by the contractor. 2. We request that dumpsites should be taken over by IGGLor Pipe Laying Contractor after completion of free period plus paid period.	Tender Conditions Prevail
106			BID CURRENCIES: Bidders must submit Bid in Indian Rupees only.	We request that bidders should be allowed to bid in USD and receive payment in USD. You will appreciate that major raw material such as steel and coating raw material are imported. This results into major cost component in USD. In case of payment in USD, line pipe supplier shall be safeguarded from risks associated with foreign exchange variation whereas IGGL shall be benefitted because of better prices on account of reduced risk of the bidder. This is also in line with tenders of other PSUs such as GAIL, ONGC, etc.	Tender Conditions Prevail
107			Bid validity The bid validity period shall be 04 (four) months from final 'Bid Due Date'.	We request IGGL that Bid validity shall be 3 months from final bid due date as keeping validity of steel price firm for period of 4 months is extremely difficult.	Tender Conditions Prevail
108			Repeat Order In partial modification to GCC clause no. 40, Repeat Order shall be applicable upto 20% ofthe ordered quantity within contractual delivery period or six months from the date of Fax ofacceptance, whichever is earlier	A) Please appreciate that it will not be commercially viable to procure steel in small quantity. Hence we request you to limit repeat order within a month of date of receipt of FOA so that additional steel quantity can be manufactured with original quantity.	Please refer Corrigendum # 1

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
109			Payment Terms	We request IGGL to modify payment terms as: a) 70% of Item value along with 100% GST of invoiced value will be paid progressively after dispatch of coated line pipes to warehouse /storage yard/ dumpsite against submission of invoice in triplicate as per GST Act duly certified by PMC/EIC enclosing relevant documents. b) 25% of Item value will be paid progressively against receipt of coated pipes at warehouse/ storage yard/ dumpsite by Purchaser / Consultant after adjustment against monthly PRS and against submission of invoice in triplicate along with: i) PMC/IGGL certified documents in support of receipt of coated pipes at warehouse. c) Balance 5% amount of the invoice value for item shall be paid progressively within 30 days after handing over of coated pipes to the laying contractor and receipt of final technical document (if any) as specified in the PR. However, in case pipes could not be lifted even 3 months beyond CDD / from last pipe delivered at dumpsite (whichever is later), 5% payment may be released to Linepipe supplier against submission of equivalent amount of BG with a validity of minimum 3 months which can be further extended up to completion of scope of work.	Tender Conditions Prevail
110			Note: Chain-age wise village to be indicated later to the successful bidder areapproximate and may vary depending on availability of land, which however, has to be acquired & established by Bidder. The exact quantity to be stacked at each dump site shall be intimated to the contractorafter award of work.	a) We request IGGL to inform final dumpsite location and exact quantity to be maintained at designated dumpsite before bid due date or before reverse auction. b) We also propose that DS should be in vicinity of 30-35 Kms from the chainage.	Tender Conditions Prevail
111		Table 10 of documents no. MEC/TS/05/21/012C Ed.3 Rev.1	Out of roundness at pipe end is 0.005 D Max.	Kindly allow the out of roundness as per API 5L i.e. 0.015 D at pipe end.	Tender Conditions Prevail
112		CL. NO. E 4.5 & E.4.6of documents no.MEC/TS/05/21/012C Ed.3 Rev.1	E.4.5 Acceptance limits for imperfections found by radiographic inspection: Slag-inclusion-type and/or gas-pocket-type imperfections in the weld at pipe ends are not acceptable and shall be treated as per clause E.4.6 of technical specification. E.4.6 Defects found by radiographic inspection: Defects in the weld such as cracks, slag inclusions, porosity and defects in the pipe material shall be removed by cutting off the section of pipe containing thesedefects. The remaining defect—free section of the pipe will be acceptable provided its length is within the specified minimum length and weld at the new end contain no defects.	Referring to the clause no E 4.6, the said defects may be permissible as per API 5L acceptance criteria. So, kindly confirm.	Tender Conditions prevails
113		CL. NO. E 4.2.3 c) of documents no. MEC/TS/05/21/012C Ed.3 Rev.1	Sensitivity of at least 1.8% of the nominal wall thickness.	The sensitivity of at least 2.0%of the nominal wall thickness. Kindly confirm.	Tender Conditions prevails
114		CL. No. C 4.2 of documents no. MEC/TS/05/21/012C Ed.3 Rev.1	a) No repair of weld seam is permissible after hydrostatic testing.	Repairs may be allowed after Hydro & UT test subject to the repair pipe shall be re-processed for hydro & UT again as per API 5L.	Tender Conditions prevails

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
115		Cl. No. 1 of Client Spec MEC/TS/05/ 21/012	Client specification is based on API 5L 45th editions.	This is to inform you that the latest Edition of API 5L 46th has already been published and mandatory to implement by May 1, 2019, since we are API Licensee Edition.	Plesae refer corrigendum #1
116		Cl. No. 9.11.3.3 of Client Spec MEC/TS/05/ 21/012	All pipes shall be supplied with length between 11.5 M and 12.5 M. However pipe with length between 10.0 m to 11.5 m can also be accepted for a maximum of 5% if the ordered quantity. The minimum average length of the entire ordered quantity in any case shall be 12.0 m.	As per rules and regulations of Road and Transport department (RTO). The pipe length above 12 meter is not allowed. Hence it should be allowed to supply the pipes in the range between 11.0m to 12.0m with average length 11.50 m and for sample pipes maximum 5% of ordered qty shall be 10.0 m to 11.0 m. Kindly confirm.	Tender conditions prevails.
117		Page No-7 of 24 of MR MEC/23UU/05/21/M/001/S012 & Cl. No. 11.2.7 of Client Spec MEC/TS/05/ 21/012	ii. Colour 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. iii. White Band marking inside for all the items. v. Yellow Band Marking outside on each Pipes for Item B1 and Violet Marking outside on each pipes for item B2 as per instruction given in the MR. A color 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 color code band shall be 50 mm wide and shall be marked at a distance of 150mm from the pipe ends.	Contradiction between MR & technical spec. regarding the color code on bare pipes. So kindly confirm which color code shall be applied on external/internal surface of the pipe for item code B1, B2 & B3.	Plesae refer the Material requistion for colour coding. Tender conditions prevails.
118		ITP- 05/21/12/001 S. No. 2a.	Scope of inspection S. No. 2a column record – Approved WPS required	MPS (Manufacturing Procedure Specification) shall be provided instead of WPS/PQR, as WPS/PQR is not applicable for ERW process.	Bidder under standing is correct , Tender condition prevails.
119		ITP- 05/21/12/001 S. No. 6	Destructive Testing :- Quantum of check:- Material specification 6-71-0005, PR.	We understand that quantum of check shall be as per technical specification MEC/TS/05/21/012, Table No- 18 & API 5L 46th edition. Please confirm.	Bidder under standing is correct , Tender condition prevails.
120		Page No. 2 & 9 of 24 of MR. No.: MEC/23UU/05/21/M/001/S012& Cl. No. 9.2.2 of Spec. No.: MEC/TS/05/21/014	Page No. 2 & 9 of 24 of MR. No.: MEC/23V2/05/21/M/001/S012 Minimum Total Coating thickness: 2.7 mm (For 24") & 2.2 mm (for 12") Cl. No. 9.2.2 of Spec. No.: MEC/TS/05/21/014 As per coating sizes. For 12" – Minimum 2.2 mm (if HDPE used then minimum coating thickness: 1.98 mm) For 24 " – Minimum 2.5 mm (if HDPE shall be used then minimum 2.25 mm)	Bidder clarifies that there are confliction in coating thickness requirement in MR and coating spec. Hence, as of now we have considered total coating thickness minimum 2.7 mm for 24" & minimum 2.2 mm for 12" as per mentioned in MR. Please confirm.	Bidder under standing is correct , Bidder has to follow the SOR & MR for minimum External & Internal coating thickness requirement. Tender condition prevails.
121		Cl. No. 1.0 of Spec. No.: MEC/TS/05/21/014	3 Layer Side Extruded Polyethylene Coating conforming to DIN-30670, 1991.	Bidder has considered the latest version DIN-30670, 2012 to be followed for 3LPE coating. Please confirm.	Bidder has to consider latest Edition of DIN 30670 for 3LPE caoting , subject to meeting the criteria of Tech. Spec. no. MEC/S/05/21/014.
122		Cl. No. 4.2 of Spec. No.: MEC/TS/05/21/014	The coating materials Manufacturer shall carry out tests for all properties specified in para 5.3.1 and 5.3.2 for each batch of epoxy, adhesive and polyethylene compound.	All mentioned tests in Cl. No. 5.3.1 & 5.3.2 of MECON spec. shall be performed by raw material manufacturer. They will provide test certificate for each batch with tested value and typical values. Please confirm. The same to be reviewed to TPI.	Tender conditions prevails

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
123		Cl. No. 4.4 of Spec. No.: MEC/TS/05/21/014	All materials to be used shall be supplied in sealed, damage free containers and shall be suitably marked with the following minimum information: a. Name of the manufacturer b. Type of material c. Batch Number d. Place and Date of Manufacture e. Shelf Life/ Expiry Date (if applicable) f. Quantity	Bidder clarifies based on confirmation from Adhesive and PE manufacturer that the information required in clause 4.4 points a, b, c and f will be marked on bag whereas others shall be provided through Certificate of Analysis / Batch test certificate. For FBE powder packages marking will be complied.	Bidder also establish/proof regarding balance information required in cluase 4.4 points d & e ,if a case . Tender conditions prevails.
124		Cl. No. 5.3.1 of Spec. No.: MEC/TS/05/21/014	Epoxy powder properties shall be as per CSA Z245.20.98.	Bidder has considered the latest version CAN/CSA Z245.20-2018. Please confirm.	The Epoxy powder properties shall be performed as per latest version of CAN/CSA Z245.20-2018. , subject to meeting the criteria of Tech. Spec. no. MEC/S/05/21/014.
125		Cl. No. 5.3.3 (a) of Spec. No.: MEC/TS/05/21/014	Bond Strength (using Type 2 Test Assembly i.e. Dynamometer)	Bidder proposes to bond strength test shall be carried out type-1 as per Annex D of DIN 30670 due to size constraint. Please confirm.	Tender conditions prevails
126		Cl. No. 5.3.3 (i) of Spec. No.: MEC/TS/05/21/014	Degree of Cure of Epoxy - ΔTg = (+3/-2)°C	Bidder clarifies that the acceptance criteria of ΔTg shall be ≤ 5°C as per latest version CAN/CSA Z245.20 -18.	Tender conditions prevails
127		Cl. No. 8.6.1 of Spec. No.: MEC/TS/05/21/014	All pipes shall be provided chemical pre-treatment with phosphoric acid solution. 10% solution of phosphoric acid, Oakite 31 / 33 or equivalent, shall be used to remove all soluble salts and other soluble contaminants.	Bidder clarifies; that it is not feasible to maintain 10% chromate salutation strength consistently. Hence, Bidder will maintain chromate solution strength minimum 10% or as per manufacturer's recommendation. Please confirm.	Tender Conditions Prevail.
128		Cl. No. 8.6.4 of Spec. No.: ES-6610	After the de-ionised water wash, the pipe shall be dried with dry air and preheated to a temperature of 65°C to 85°C.	Bidder understands that after de-ionised water wash, the pipe shall be dried with dry air temperature 65°C to 85°C.	Tender Conditions Prevail.
129		Cl. No. 8.7 of Spec. No.: MEC/TS/05/21/014	Surface of pipe after abrasive blast cleaning shall have an anchor pattern of 50 to 70 microns (Rz).	Bidder clarifies that surface roughness criteria range is very narrow. Hence, Bidder proposes surface roughness criteria range between 40-90 micron as per DIN 30670 and use of digital surface roughness profile in accordance with ISO 8503-4.	Tender Conditions Prevail.
130		Cl. No. 8.13.1 of Spec. No.: MEC/TS/05/21/014	Following completion of abrasive blast cleaning, all pipe surfaces shall be chemically Pre-treated with a 10% strength chromate solution.	Bidder clarifies that it is not feasible to maintain 10% chromate salutation strength consistently. Hence, Bidder will maintain chromate solution strength minimum 10% or as per manufacturer's recommendation. Please confirm.	Tender Conditions Prevail.
131		Cl. No. 8.13.4 of Spec. No.: MEC/TS/05/21/014	Chemical Pre-treatment with Chromate Solution The CONTRACTOR shall check that the concentration for the chemical pre-treatment solution remains within the range recommended by the chemical manufacturer for the pipe coating process. The concentration shall be checked at the makeup of each fresh solution and once per hour, using a method approved by the chemical manufacturer.	Bidder proposes that revise the testing frequency once per shift instead of once per hour.	Tender Conditions Prevail.

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
132		Cl. No. 9.2.8 of Spec. No.: MEC/TS/05/21/014	The extrusion temperatures of the adhesive and polyethylene shall be continuously recorded. The monitoring instruments shall be independent of the temperature control equipment. The instruments shall be calibrated prior to start of each shift.	Bidder clarifies; that such instrument calibrated in specialized equip laboratory, we proposed review of outside lab calibration certificated.	Tender Conditions Prevail.
133		Cl. No. 10.4 (b) of Spec. No.: MEC/TS/05/21/014	The holiday detector shall be a low pulse DC full circle electronic detector with audible alarm and precise voltage control with DIN VDE 0433 Part 2. The set voltage for inspection shall be 25 kV. Travel speed shall not exceed 300 mm/s.	Bidder clarifies; that DIN VDE 0433 Part 2 has been withdrawn. Hence, Bidder will use high voltage Holiday Detector in accordance with Annex E of DIN 30670.	The Holioday detector might be performed in accordance with annex E of DIN30670, subject to meeting the criteria of Tech. Spec. no. MEC/S/05/21/014.
134		Cl. No. 10.5 of Spec. No.: MEC/TS/05/21/014	Bond Strength Test The frequency of test for cut back portions shall be one pipe in every fifteen (15) pipes coated and for middle of pipe shall be one pipe in every sixty (60) pipes coated or one pipe per shift whichever is higher.	Bidder proposes to perform the peel test at maximum feasible distance from pipe end instead of middle of the pipe. It is not practically possible to maintain the specified test temperature at the middle of the pipe due to size constraint and safety concern.	Tender Conditions Prevail.
135		Cl. No. 10.5 of Spec. No.: MEC/TS/05/21/014	Bond Strength Test The system shall disbond /separate cohesively either in adhesive layer or in polyethylene layer. Majority of the peeled off area on the pipe shall show presence of adhesive. Disbondment /separation at epoxy to steel interface or epoxy / adhesive interface or adhesive / polyethylene interface shall not be permitted. The failure mode shall be recorded for each test.	Bidder proposed cohesive criteria will deviate for grafted adhesive, as describe in ISO 21809-1 table 7, Note C.	Tender Conditions Prevail.
136		Cl. No. 12.0 of Spec. No.: ES-6610	Irrespective of type of repair, the maximum numbers of repair of coating shall be as follows : • Holiday repair of size ≤ 100 cm2 attributable to process of coating application shall be maximum of one per pipe. • In addition to the above, defects to be repaired by heat shrink patch/ sleeve shall be maximum 2(two) per pipe.	Bidder understand that repair generated due to tests is not covered in above criteria	Bidder's understanding is correct. Tender Conditions Prevail.
137		Cl. No. 4.0 of Spec. No.: MEC/TS/05/21/014B REV.00	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).	Bidder has considered the latest version ISO 15741-2016 to be followed for internal flow coating. Please confirm.	The internal coating shall be performed as per latest version of ISO 15741-2016, subject to meeting the criteria of Tech. Spec. no. MEC/S/05/21/014B.
138		Cl. No. 5.1 of Spec. No.: MEC/TS/05/21/014B REV.00	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 Conditions Prevail
139		Cl. No. 5.3 of Spec. No.: MEC/TS/05/21/014B & Cl. No. 6 of ITP-No. 05/21/14B/005	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	Tender conditions prevails

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
140		I INVITATION FOR BID Pg. No. 7 cl. No. 9.3	Eligibility criteria in case bid is submitted on the basis of technical experience of FOREIGN BASED ANOTHER COMPANY(SUPPORTING COMPANY) which holds more than fifty percent of the paid up share capital of the bidder company or vice versa:	Bidder understand that the subject tender is under open domestic competitive bidding and only the companies having pipe manufacturing facilities in India are allowed to participate in the same. Please confirm.	Tender Conditions Prevail
141		II BID EVALUATION CRITERIA Pg. No. 36 cl. No. 10.2.2	BIDDER'S CAPACITY	In the bidder's capacity assessment For Item No. A1 & A2 delivery days for the coated pipe is mentioned 189 days but as per the delivery scheduleof coated pipe, it has to be supplied within 280 days. Therefore bidder understand that the bidder's capacity assessment has to be done accordingly by considering the delivery of coated pipe within 280 days. Please confirm and amend the bidder's capacity assessment accordingly.	Bidder to note that there is no restriction in the number of mills to be offered by the bidder. Bidder along with the bid can submit the PTR of all the mills which meets the qulaification criteria as per IFB in terms of capability & capacity assessment. Tender conditions prevails.
142			PRICE SCHEDULE FOR COATED LINE PIPES	In the Price Schedule bidder has to quote prices as per dumpsite wise, location wise and as per the tender docs, there is an item wise evaluation. Therefore you are requested to please clarify the point which is as under-: As per SORof DS-1 for 24" Pipes size under Item No. A1, Total quantity is 1,00,000 meters and bidder has submitted their bid for 1,00,000 meters & bidder emerged as L1 bidder during Reverse Auction for 1,00,000 meter. Kindly confirm that weather bidder has to supply 1,00,000 meter at one location or at three location so that bidder will prepare their costing by considering dumpsite at one location or at all three location.	Tender Condition Prevails
143		II BID EVALUATION CRITERIA Pg. No. 32 cl. No. 10	EVALUATION AND COMPARISON OF BIDS	Please confirm that weather the Evaluation During RA is based on Item Wise or Dumpsite wise.	Please refer clause no. 10 of Section-II , Vol I of II
144		Annexure-II to SCC Pg. No. 228 cl. No. 1	TERMS OF PAYMENT	Delivery of the pipe is scheduled in 2 continuous lots for item no A1 i.e. From 20 to 31st week and 44 to 60th week and similar fragmented delivery schedules in other items also. As per payment schedule 90% of payment will be release after against receipt of coated pipes at warehouse and balance 10% amount of the invoice value shall be paid progressively within 30 days after handing over of coated pipes to the laying contractor and receipt of final technical document. This period is too long and it will detoriate the cash flow cycle of the company therefore please amend the payment terms i.e. 10% payment shall be released after completion of 1st lot i.e. 31st week against submission of additional Bank Guarantee for equivalent amount. Please confirm.	Tender Conditions Prevail

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
145	9.2.2 (Vol -2 page n	STANDARD TECHNICAL SPECIFICATION FOR SAWL LINEPIPE (ONSHORE) (Doc. No. MEC/TS/05/21/012B Ed. 3 Rev. 1 DT. 13.04.2016	Element % max Mn 1.6 Si 0.15-0.45 Cr 0.20	we propose the following proposal to below listed elements: Element Ladle / Product Max. Mn 1.60 (Refer Note 1) Si Min. value of Si shall be deleted Cr To be permitted upto 0.30 Max (Please clarify)	Tender Condition Prevails
146	9.8.2.1(Vol -2 page no. 104 of 299) 9.8.3 (Vol -2 page no. 105 of 299)	STANDARD TECHNICAL SPECIFICATION FOR SAWL LINEPIPE (ONSHORE) (Doc. No. MEC/TS/05/21/012B Ed. 3 Rev. 1 DT. 13.04.2016	CVN Pipe Body, Weld & HAZ: …based upon full sized test pieces at a test temperature of 0°C (32°F) or at a lower test temperature as specified in the Purchase Order. Pipe weld and HAZ tests The minimum average (set of three test pieces) absorbed energy value (KIT) 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.	We have considered the test temperature for CVN impact test (pipe body, weld metal & HAZ) as 0°C. (Please clarify)	Tender Condition Prevails
147	Table 10 (Vol -2 page no. 108 of 299)	STANDARD TECHNICAL SPECIFICATION FOR SAWL LINEPIPE (ONSHORE) (Doc. No. MEC/TS/05/21/012B Ed. 3 Rev. 1 DT. 13.04.2016	Out off roundness - at End 0.005 D	We propose that the OOR at pipe end to be permitted upto 4.0 mm max at end. (Please clarify)	Tender Condition Prevails
148	9.3.2 (Vol -2 page no. 104 of 299) Annex B B.5.2.d.ii (Vol -2 page no. 122 of 299)	STANDARD TECHNICAL SPECIFICATION FOR SAWL LINEPIPE (ONSHORE) (Doc. No. MEC/TS/05/21/012B Ed. 3 Rev. 1 DT. 13.04.2016	The ratio between yield strength and tensile strength for weld metal of finished expanded pipe shall not exceed 0.90, when tested using cylindrical all weld specimen. Cylindrical all weld tensile test shall be carried out to determine the yield strength, tensile strength and elongation during MPQT and whenever there is change in the batch of electrode or wire & flux combination. The results of the test shall meet the minimum requirements of the plate With regard to yield strength and tensile strength. The minimum elongation shall be determined in accordance with the formula given in foot note (f) of Table 7 of API Spec 5L; however, minimum elongation in no case shall be less than 20%.	We understand the YS/UTS shall be reported for information only. The % elongation shall be calculated as per formula given in Table 7 footnote f of API 5L 46th Edition. (Please clarify)	The requirement of Value of YS/UTS is mandatory. Further elongation in no case shall be less than 20% as given in the technical specification.
149	D.2.3.2.1 (Vol -2 page no. 125 of 299)	STANDARD TECHNICAL SPECIFICATION FOR SAWL LINEPIPE (ONSHORE) (Doc. No. MEC/TS/05/21/012B Ed. 3 Rev. 1 DT. 13.04.2016	Sample Test Piece extraction In addition to the API Spec 5L requirements, the test piece edge shall be machine cut. Oxygen cut is not allowed.	We propose to sample test piece extraction by oxygen cutting with additional tolerance of 4-5mm each side considering machining tolerance to avoid any heating effect. Please confirm your acceptance. (Please Clarify)	Tender Condition Prevails
150	E.4.5 (Vol -2 page no. 128 of 299)	STANDARD TECHNICAL SPECIFICATION FOR SAWL LINEPIPE (ONSHORE) (Doc. No. MEC/TS/05/21/012B Ed. 3 Rev. 1 DT. 13.04.2016	Slag-inclusion-type and/or gas-pocket-type imperfections in the weld at pipe ends are not acceptable and shall be removed by cutting off the section of pipe containing these imperfections. The remaining imperfection -free section of the pipe will be acceptable provided its length is within the specified minimum length and the weld at the new pipe end contains no imperfections.	We understand that Slag-inclusion-type and/or gas-pocket-type imperfections in the weld at pipe ends are not acceptable up to 50 mm weld length at pipe ends. (Please Clarify)	Plesae refere E 3.2.2 for pipe length. Tender Condition prevails

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
151	E.5.1.2 (Vol -2 page no. 128 of 299)	STANDARD TECHNICAL SPECIFICATION FOR SAWL LINEPIPE (ONSHORE) (Doc. No. MEC/TS/05/21/012B Ed. 3 Rev. 1 DT. 13.04.2016	The equipment for the automatic inspection shall allow the localization of both longitudinal and transverse defects corresponding to the signals exceeding the acceptance limits of the reference standard. The equipment shall be fitted with a paint spray or automatic marking device and alarm device for areas giving unacceptable ultrasonic indications and probe decoupling.	We clarifies that: Automatic plate ultrasonic system having no paint marking device as location of indication shall be located by graph & as per location manual ultrasonic testing to be done as per approved Manual ultrasonic testing procedure. However, Automatic weld ultrasonic testing machine having facility of paint marking device. (Please Clarify)	Automatic marking device and alarm device for areas giving unacceptable ultrasonic indications and probe decoupling. Tender conditions prevail.
152	E.5.2.3.2 (Vol -2 page no. 129 of 299)	STANDARD TECHNICAL SPECIFICATION FOR SAWL LINEPIPE (ONSHORE) (Doc. No. MEC/TS/05/21/012B Ed. 3 Rev. 1 DT. 13.04.2016	Reference standard for the ultrasonic inspection of plate edges/pipe ends shall have 6.4mm (1/4 inch) diameter FBH of a depth 0.5 t, where 't' is the specified wall thickness.	We propose the depth of FBH to be permitted with range from 0.25t to 0.5t as per ISO 10893-9:2011 CL 6.2. (Please Clarify)	Tender Conditions Prevail
153	8.6 (Vol 2 Page No.	Specifications for API 5L (PSL2) COATED & BARE PIPE – HSAW Doc. No.: 05/51/23UU/IGGL/012 MR No. : MEC/23UU/05/21/M/001/S012	Continuous data logger shall be used at all welding stations. For each welding station, current versus voltage shall be submitted for both ID & OD welding in each shift.	We clarify that the welding shall monitored by continuous data logger & shall be made available for SAW ID and OD only. (Please Clarify)	Tender Conditions Prevail
154	8.9.1 (Vol 2 Page No. 143 of 299)	Specifications for API 5L (PSL2) COATED & BARE PIPE – HSAW Doc. No.: 05/51/23UU/IGGL/012 MR No. : MEC/23UU/05/21/M/001/S012	Pipes furnished to this specification shall be non-expanded.	We propose to that the end correction / end expansion shall be permitted (if necessary) (Please Clarify)	end correction/end exapansion Not permitted, Tender Condition Prevails
155	9.2.2 (Vol 2 Page No. 144 of 299)	Specifications for API 5L (PSL2) COATED & BARE PIPE – HSAW Doc. No.: 05/51/23UU/IGGL/012 MR No. : MEC/23UU/05/21/M/001/S012	Element % max Mn 1.6 Si 0.15-0.45 Cr 0.20	We propose the following proposal to below listed elements: Element Ladle / Product Max. Mn 1.60 (Refer Note 1) Si Min. value of Si shall be deleted Cr To be permitted upto 0.30 Max Note: 1:- we proposes that footnote b of API 5L 46th Edition Table 5 to be permitted for Carbon – Manganese relation 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 Grade. (Please Clarify)	Tender Conditions Prevail
156	9.8.2.1 (Vol 2 Page No. 146 of 299) 9.9.1 (Vol 2 Page No. 147 of 299)	Specifications for API 5L (PSL2) COATED & BARE PIPE – HSAW Doc. No.: 05/51/23UU/IGGL/012 MR No. : MEC/23UU/05/21/M/001/S012	The average (set of three test pieces) absorbed energy value (KvT) for each pipe body test shall be as specified in Table 8 of this specification, based upon full sized test pieces at a test temperature of 0°C (32°F) or at a lower test temperature as specified in the Purchase Order. For each test (set of two test pieces), the average shear fracture area shall be ≥ 85 % based upon a test temperature of 0 °C (32 °F) or at a lower test temperature as specified in the Purchase Order	We understand that the test temperature shall be 0°C for both CVN & DWTT test. (Please Clarify)	Bidder understanding is correct,Tender Condition Prevails

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
157	Table 10 (Vol 2 Page No. 150 of 299)	Specifications for API 5L (PSL2) COATED & BARE PIPE – HSAW Doc. No.: 05/51/23UU/IGGL/012 MR No. : MEC/23UU/05/21/M/001/S 012	Out off roundness - at End 0.005 D	We propose that the OOR at end to be permitted up to 4.0 mm max at end. (Please Clarify)	Tender Conditions Prevail
158	9.16 (Vol 2 Page No. 152 of 299)	Specifications for API 5L (PSL2) COATED & BARE PIPE – HSAW Doc. No.: 05/51/23UU/IGGL/012 MR No. : MEC/23UU/05/21/M/001/S 012	All the pipes shall meet the testing and minimum acceptance criteria for Residual stress test. The residual stress test shall be carried out on the pipe after hydrostatic test. The computed residual stress shall not exceed 10% of the specified minimum yield strength (SMYS) of the pipe when calculated as per clause 10.2.4.9 (New) of this specification	We understand that the acceptance of computed residual stress shall not be exceeding ± 10 % of SMYS. (Please Clarify)	The computed residual stress shall not exceed 10% of the specified minimum yield strength (SMYS) of the pipe when calculated as per clause 10.2.4.9 (New) of MECON HSAW specification. Tender Conditions Prevail
159	9.3.2 (Vol 2 Page No. 145 of 299) 10.2.3.2 (Vol 2 Page No. 156 of 299) Annex B B.5.2.d.ii (Vol 2 Page No. 165 of 299)	Specifications for API 5L (PSL2) COATED & BARE PIPE – HSAW Doc. No.: 05/51/23UU/IGGL/012 MR No. : MEC/23UU/05/21/M/001/S 012	The ratio between yield strength and tensile strength for weld metal of finished expanded pipe shall not exceed 0.90, when tested using cylindrical all weld specimen. Test pieces for the tensile test For all weld tensile test during MPQT, round cross-section test piece shall be prepared in accordance with ASTM A370. As an alternate, all weld tensile test shall be carried out as per ASME Section II, Part-C and test piece shall have gauge length, L = 5d, where, 'L' is the gauge length (mm) and 'd' is the diameter (mm) of the test piece. Cylindrical all weld tensile test shall be carried out to determine the yield strength, tensile strength and elongation during MPQT and whenever there is change in the batch of electrode or wire & flux combination. The results of the test shall meet the minimum requirements of the plate With regard to yield strength and tensile strength. The minimum elongation shall be determined in accordance with the formula given in foot note (f) of Table 7 of API Spec 5L; however, minimum elongation in no case shall be less than 20%	We clarify that the all weld tensile sample shall be extracted from finished pipes and prepared according to ASTM A 370 latest Edition. We propose that the YS & UTS shall be considering as min specified requirement. YS/ UTS shall be reported for information only, when testing of cylindrical all weld specimen. The % elongation shall be calculated as per formula given in Table 7 footnote f of API 5L 46th Edition. (Please Clarify)	The requirement of Value of YS/UTS is mandatory. Further elongation in no case shall be less than 20% as given in the technical specification.
160	D.2.3.2.1 (Vol 2 Page No. 169 of 299)	Specifications for API 5L (PSL2) COATED & BARE PIPE – HSAW Doc. No.: 05/51/23UU/IGGL/012 MR No. : MEC/23UU/05/21/M/001/S 012	Sample Test Piece extraction In addition to the API Spec 5L requirements, the test piece edge shall be machine cut. Oxygen cut is not allowed.	We propose to sample test piece extraction by oxygen cutting with additional tolerance of 4-5mm each side considering machining tolerance to avoid any heating effect. Please confirm your acceptance. (Please Clarify)	Tender Conditions Prevail
161	E.4.5(Vol 2 Page No. 172 of 299) E.4.6 (Vol 2 Page No. 172 of 299)	Specifications for API 5L (PSL2) COATED & BARE PIPE – HSAW Doc. No.: 05/51/23UU/IGGL/012 MR No. : MEC/23UU/05/21/M/001/S 012	Acceptance limits for imperfections found by radiographic inspection Slag-inclusion-type and/or gas-pocket-type imperfections in the weld at pipe ends are not acceptable . Defects found by radiographic inspection Defects in the weld such as cracks, slag inclusions, porosity and defects in the pipe material shall be removed by cutting off the section of pipe containing these defects. The remaining defect-free section of the pipe will be acceptable provided its length is within the specified minimum length.	We understand that Slag-inclusion-type and/or gas-pocket-type imperfections in the weld at pipe ends are not acceptable up to 50 mm weld length at pipe ends. (Please Clarify)	Plesae refere E 3.2.2 for pipe length. Tender Condition prevails

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
162	10.2.5.3 (Vol 2 Page no. 47 of 299)	• Standard Technical Specification for ERW HFW Line pipe (Onshore) No. MEC/TS/05/21/012 Rev. 1 edition 3 Date Apr. 2016	The test piece shall be visually examined using a minimum 40X magnification to provide evidence that the heat treatment of weld zone is adequate and there is no untempered martensite or detrimental oxides from the welding process present along the weld seam. The metallographic examination shall be documented on micrographs (at 10X to 20X magnification).	Bidder proposes to carry out metallographic examination at 100X magnification and document with the same magnification. (Please Clarify)	Metallographic examination may be performedat 100X in addition to the requirement of this clause. Tender Conditions Prevail.
163	9.2.2 of MEC/S/05/21/014 & MR MEC/23UU/05/21/ M/001/S012	Tender No 05/51/23UU/IGGL/012 - Coating (External & Internal)	Minimum total thickness of finished coating : For 24" (610 mm) total coating thickness 2.7 mm For 12" (323.9 mm) total coating thickness 2.2 mm In case HDPE material is used as top coat, 10% reduction in minimum coating thickness specified is permissible.	Bidder understands that minimum total coating thickness shall be 2.43 mm for 24" (610 mm) OD and 1.98 mm for 12" (323.9 mm) OD as approved coating material specified in ANNEXURE-I are HDPE material. (Please Clarify)	Bidder understanding is not correct Bidder has to follow the SOR & MR for minimum External & Internal coating thickness requirement. Tender condition prevails.
164	Table-4 of MEC/TS/05/21/014 B	Tender No 05/51/23UU/IGGL/012 - Coating (External & Internal)	Test-Wet paint (mixed) Viscosity and temperature Test frequency -Every time paint is mixed and every time painting is interrupted	We propose the test frequency is Start of shift and at each time paint material batch change. (Please Clarify)	Tender Conditions Prevail
165	5.1 & Sl. No 6 of ITP Internal Coating	Tender No 05/51/23UU/IGGL/012 - Coating (External & Internal)	COATING MATERIAL Unless otherwise agreed, the coating material shall be qualified in accordance with 5.2 and 5.3 and shall not be changed after qualification.	We understands that paint qualification report to be provided by raw material manufacturer and submitted for the review. (Please Clarify)	Tender Conditions Prevail
166	5.1 of MEC/TS/05/21/014 B	Tender No 05/51/23UU/IGGL/012 - Coating (External & Internal)	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.	We propose the following epoxy paints. Material Grade — Manufacturer Scotchkote EP 2306 HF — 3M Scotchkote 2326 HF — 3M INTERGARD 272 — AKZO NOBLE INTERGARD 2272 — AKZO NOBLE HS GAS PIPE COATING 87633 — HEMPEL HS GAS PIPE COATING 87831 — HEMPEL HS GAS PIPE COATING 87830 — HEMPEL Flowliner 930R HS — Valspar Flowliner 930R UHS — Valspar Deep Seal Solvent Less Friction Free Epoxy Paint — Deep Industries Poly Guard – HBSBLE-FC-261015 — Thakor Reductants Pvt. Ltd. (Please Clarify)	Tender Conditions Prevail
167	ITP Internal Coating Sl No 1b & 6	Tender No 05/51/23UU/IGGL/012 - Coating (External & Internal)	In addition to MTC review, contractor shall test sample as per specification as minimum but not limited to following: a) Non-volatile matter (by mass) b) Non-volatile matter (by volume) c) Viscosity d) Density e) Ash residue on ignition f) Pot life Cured paint film on steel panel, 5 no. sample Procedure qualification test and repair procedure qualification test 3) Resistance to neutral salt spray 4) Resistance to artificial ageing 6) Resistance to gas pressure variation 7) Resistance to water immersion 8) Resistance to chemicals 9) Resistance to hydraulic blistering	We propose to submit test report obtain from raw material manufacturer and submit for review as per 1.1 (x) of SCOPE OF WORK & 5.7 of MEC/TS/05/21/014B. (Please Clarify) We propose to submit test report obtain from raw material manufacturer and submit for review as per 1.1 (x) of SCOPE OF WORK & 5.7 of MEC/TS/05/21/014B. (Please Clarify)	Tender Conditions Prevail

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE
PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
168	Cl. No. 4.2 of Spec. No.: MEC/S/05/21/014	Tender No 05/51/23UU/IGGL/012 - Coating (External & Internal)	The coating materials Manufacturer shall carry out tests for all properties specified in para 5.3.1 and 5.3.2 for each batch of epoxy, adhesive and polyethylene compound. In addition, the Manufacturer shall also furnish Infra-red Scan for each batch of epoxy powder. The coating materials manufacturer shall issue test certificates as per DIN EN 10204, 3.1B for each batch of materials supplied to CONTRACTOR and the same shall be submitted to COMPANY for approval prior to their use.	Material manufacturer will provide batch test certificate for the measured value and typical value as mentioned below: Epoxy Powder: All Properties PE Adhesive: Melt flow rate test results shall be reported as tested / measured value for each batch whereas the Specific gravity & Vicat Softening point will be reported as typical values supported by reputed lab reports. High Density Polyethylene: Specific Gravity, Melt Flow Rate, Oxidation Induction Time, Carbon Black Content results shall be reported as measured value for each batch. The properties - Hardness Shore D, Elongation at break, Tensile Strength, Vicat Softening point, Environmental Stress Crack Resistance (ESCR), Volume Resistivity and Dielectric Withstand, Water absorption test shall be reported as typical value supported by independent lab test report valid for one year. For Heat ageing, Light ageing and Coating Resistivity test bidder will submit independent laboratory test report furnished by material manufacturer. These test certificates will not be older than three years. (Please Clarify)	Heat Aging, Volume Resistivity and Aging under exposure to light are acceptable . These test certificates shall not be older than three years. Bidder to comply bid requirements.
169	Cl. 1.1, iii) of MR No. : MEC/23UU/05/21/ M/001/S012 Cl. 4.0 of Doc. No. MEC/TS/05/21/014 B	Internal Solvent Base Epoxy Coating	Cl. 1.1, iii) of MR The pipes shall be furnished with liquid epoxy internal painting conforming to ISO 15741, “Friction reduction coatings for the interior of on and offshore steel pipe lines for non-corrosive gases”/ API RP 5L 2. The coating material shall typically be two pack epoxy paint. Cl. 4.0 of Doc. No. MEC/TS/05/21/014B 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).	Bidder has considered ISO 15741-2016 to be followed for internal flow coating. (Please Clarify)	The internal coating shall be performed as per latest version of ISO 15741-2016, subject to meeting the criteria of Tech. Spec. no. MEC/S/05/21/014B.

REPLY TO BIDDERS QUERIES
FOR BARE / COATED LINE PIPES FOR NORTH -EAST GAS GRID PIPELINE PROJECT (PHASE-1) OF M/S INDRADHANUSH GAS GRID LIMITED
Tender no. : 05/51/23UU/IGGL/012

DATED : 18.02.2020

S.N.	CL. No.	Section/ Page	Section Detail/Description	Clarification / Deviation	Reply
170	Cl. 1.1, x) of MR No.: MEC/23UU/05/21/ M/001/S012 & CL. 5.3, Table – 02 of MEC/TS/05 /21/014B & Cl. 6.0 of ITP No. 05/21/14B /005- ITP for Internal liquid epoxy coating	Internal Solvent Base Epoxy Coating	Works associated with External & Internal coating of Line Pipes : 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. As per Cl. 6.0 of ITP No. 05/21/14B /005- ITP for Internal liquid epoxy coating & As per CL. 5.3, Table – 02 of MEC/TS/05 /21/014B Cured paint film on steel panel, 5 no. sample Procedure qualification test and repair procedure qualification test: 1) Adhestion test 2) Buchholz hardness 3) Resistance to neutral salt spray 4) Resistance to artificial ageing 5) Bend test (conical Mandrel) 6) Resistance to gas pressure variation 7) Resistance to water immersion 8) Resistance to chemicals 9) Resistance to hydraulic blistering 10) Porosity (glass panel dry +wet) 11) WFT (on all 25 pipes) 12) DFT (on all 25 pipes)	Bidder understand 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 Clarify)	Tender Conditions Prevail
171	Table 4 of Doc. No. MEC/TS/05/21/014 B	Internal Solvent Base Epoxy Coating	Table 4 – Minimum items to be checked and recorded during the coating process Flash point: At every change of shift	Bidder request to provide 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 Clarify)	Tender Conditions Prevail
172	CL. 5.2, Table – 03 of MEC/TS/05/21/014 B & Cl. 1b of ITP No. 05/21/14B /005- ITP for Internal liquid epoxy coating	Internal Solvent Base Epoxy Coating	In addition to MTC review, contractor shall test sample as per specification as minimum but not limited to following: a) Non-volatile matter (by mass) b) Non-volatile matter (by volume) c) Viscosity d) Density e) Ash residue on ignition f) Pot life	Bidder propose to submit the raw material manufacturer batch test certificate for following tests of internal flow coating: • Ash residue on ignition • Pot life (Please Clarify)	Tender Conditions Prevail
173	CL. 5.3, Table – 02 of MEC/TS/05 /21/014B & Cl. 6.0 of ITP No. 05/21/14B /005- ITP for Internal liquid epoxy coating	Internal Solvent Base Epoxy Coating	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 (Please Clarify)	Tender Conditions Prevail