



REPLY TO BIDDER'S PRE-BID QUERIES

SUPPLY OF FLOW TRANSMITTERS

Tender No : AGCL/BD/PMC-GHT/FLTRM/2020/25 DATED 27/02/2020



Sr. No.	Tender Clause No. / Annexures	Page No	Clause No	Subject	Bidders Comments / Queries	VCS Reply
TECHNICAL QUERIES						
1	Invitation for Bids (IFB)	9 of 87	9.0 Bid Evaluation Criteria	Clause 9.1.1 Bidder shall be a regular manufacturer of flow meter (Orifice type & Ultrasonic type), Orifice plate & flanges	We request M/s. AGCL to consider the flow metering system manufacturer (orifice type or Ultrasonic type) meter instead of flow meter manufacturer (orifice type and USM) as this criteria is limiting to one specific supplier only. This also limit the participation of interested system suppliers who are manufacturing flow metering systems.	Bidder to refer corrigendum #1.
2	Invitation for Bids (IFB)	9 of 87	9.0 Bid Evaluation Criteria	Clause 9.1.2 Bidder should have successfully engineered, manufactured, tested and supplied at least 1 no. of metering package with flow computer for flow 50000-70000 SCMD or higher (DP type orifice flow meter along with flow computer), 1 no. of metering package for flow 130000 SCMD or higher (USM meter with flow computer) during period of last 5 years either abroad or in India.	We request you to consider order references of 2 nos. metering system comprising of either orifice or Ultrasonic Meter and flow computer supplied during last 5 years as Ultrasonic Meter is considered to be better technology.	Bidder to refer corrigendum #1.
3	Invitation for Bids (IFB)	7 of 87	5.0 Delivery Period	Delivery period is mentioned as 4 months.	We request M/s. AGCL to provide minimum 7 months delivery period for Ultrasonic Flow Meter as meter needs to be wet calibrated with pipe spools at third party lab for which spools needs to be transported to lab which takes time.	Tender conditions shall prevail.
4	General	-	-	Spares for Ultrasonic Flow Meter is mentioned to provided for 2 years operation & maintenance and start up.	We request you to provide the list of spares to be provided for USM with quantities.	Bidder will provide, bidder recommend spare list of USM and Orifice type DP flow meters along with the bid with spare list which will be evaluated separately.
5	General			Wet Calibration for Ultrasonic Flow Meter	a) Please confirm whether USM needs to be wet calibrated. B) As per standard practice, USM meters are calibrated at average operating pressure. Kindly confirm the calibration pressure to be considered for USM. c) Please note that we cannot opt for GAIL Hazira lab to perform wet calibration as they can do calibrations at 49 to 52 bar pressure only. Average operating pressure in the current scenario is below 49 bar. Please clarify and confirm if GAIL Hazira lab is acceptable or not.	a) Confirmed, USM shall be wet calibrated. b) Bidder to consider 49 bar as calibration pressure for USM, as per the process datasheet doc no. 1009-00-PC-PDS-1005. c) GAIL Hazira lab is acceptable as the calibration pressure is 49 bar.
6	General			Vendor List	We request you to kindly provide the vendor list for USM, FC, Orifice type flow meter and all other accessories	Bidder to refer Annexure-1 of corrigendum #1.
7		8 of 153	Clause of 5. Design	Cable & Cabling from field instrument to Flow computer/ Flow Controller etc.	We request you to kindly provide distance between field and control room.	Bidder to consider cable lengths, from metering skid to terminal control room approximately 100 mtrs distance.
8	Instrument datasheet - USM	15 of 153		Pressure & Temperature	Unit of Pressure & temperature is not mentioned in the datasheet. We understand that, pressure is in kg/cm2(g) & Temperature is in deg. C. Kindly confirm	Bidder's understanding is correct
9	Instrument datasheet - USM	15 of 153		Flow Range	Mentioned flow range is 0-130000. We understand that, meter size is fixed and manufacturer will provide minimum measurable flow of the meter as 0 SCMD flow will not be measured by any USM. Kindly confirm	Bidder to consider 6000 SCMD as minimum flow. However, as per the turn down ratio of the meter shall be 100:1, so bidder to size the meter accordingly.
10	Instrument datasheet - USM	15 of 153		Meter type, bi-directional	We understand that, meter need to wet calibrate in both the direction as meter is bi-directional.	Bidder's understanding is correct
11	Instrument datasheet - USM	15 of 153		Transmitter type, Electronics SMART compatible with HART protocol of latest version	Request you to kindly revisit the requirement, as meter is master device and can not be calibrated over HART. Through HART we can only configure the output of the meter range.	Flow meter shall be wet calibrated, however HART protocol shall be provided for output configuration of the meter.
12	Instrument datasheet - USM	15 of 153		Molecular weight & Compressibility Factor	We request you to provide Gas composition to perform detail sizing calculation.	Gas composition shall be provided to successful bidder.
13	Instrument datasheet - USM	15 of 153		Note - 11 : Straight meter run of 10 ND(Nominal pipe diameter) between upstream of the flow conditioner, 10 ND between flow conditioner and the meter and 5D downstream of meter shall be supplied by the meter manufacturer and used during wet calibration	As the meter is bi-directional, downstream spool should be same as upstream spool. Kindly confirm	Noted, for bi-directional downstream spool should be same as upstream spool i.e 10 ND(Nominal pipe diameter).
14	Standard Specification of Flow Computer	83 of 153	Clause of 5. Design	Clause 4.0 Material Materials selected shall be in accordance with the Data Sheets and Company's Standard specifications. For Corrosion service the material selected shall be in compliance with the requirements of NACE MR-0175 I ISO-15156 latest editions.	We understand that, NACE is not applicable for Flow computer & other scope items. Kindly confirm	Bidder's understanding is correct



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15	P&ID	92 of 153			We understand that, inlet- outlet valves are not in our scope of supply. Kindly confirm	Bidder's understanding is correct
16	ITP	145 of 153	-	Boughtout Items like Flow Computer & Ultrasonic Flowmeter	We understand that, USM & Flow computers are imported item and will be inspection according to EN 10204 3.1. Kindly confirm	Noted. USM & Flow computers shall be inspected according to EN 10204 3.1
17	-	-	-	-	You are requested to confirm regarding other instruments like PT/DPT/TT/Level/Analysis.	Bidder to consider the instruments as per the Material Requisition mentioned in tender. Also Bidder to refer the P&ID which shows the bidder's scope in dotted line.
18	INSTRUMENT DATASHEETS-METERING PACKAGE (DP TYPE FLOW TRANSMITTER, ULTRASONIC TYPE FLOW TRANSMITTER)	12 of 153	ORIFICE PLATE	Orifice fitting	As per our understanding since the requirement of orifice fittings is as per ISO516 bidder has to consider to supply the Single chamber orifice fitting with Upstream & downstream piping as per requirement. Please confirm.	Orifice plate shall be single fitting. Orifice shall be considered along with the upstream flow profiler, upstream and downstream meter run as per AGA3. Instrument taping, flow computer etc., shall be considered. The DP taping (2nos.) shall be considered on each flange of the orifice carrier. The size of the taping shall be 1" NPTF along with the branch pipe (1"), root valves, vents and drain flanges etc as mentioned in datasheet
19	INSTRUMENT DATASHEETS-METERING PACKAGE (DP TYPE FLOW TRANSMITTER, ULTRASONIC TYPE FLOW TRANSMITTER)	12 of 153	ORIFICE PLATE	Orifice fitting Size	As per the datasheet of the orifice fittings the size is mentioned as 8" however as the sizing calculations based on velocity limits of 20 m/sec and given process conditions 6" orifice fittings is suitable. Please confirm whether the meter Size is fixed as 8" as per datasheet or bidder has to size the orifice fitting as per process conditions considering velocity limit of 20 m/sec.	Bidder to size the orifice as per the process design criteria mentioned in datasheets.
20	INSTRUMENT DATASHEETS-METERING PACKAGE (DP TYPE FLOW TRANSMITTER, ULTRASONIC TYPE FLOW TRANSMITTER)	Page 13 of 153	USM Meter datasheet	Meter Size	As per the datasheet of the USM Meter size is mentioned as 8" however as the sizing calculations based on velocity limits of 20 m/sec and given process conditions 6" USM Meter is suitable. Please confirm whether the meter Size is fixed as 8" as per datasheet or bidder has to size the USM Meter as per process conditions considering velocity limit of 20 m/sec.	Bidder to size the Ultrasonic meter as per the process design criteria mentioned in datasheets.
21	SECTION - I INVITATION FOR BIDS (IFB)	Page 9 of 87	SECTION - I INVITATION FOR BIDS (IFB)	9.0 BIDDER EVALUATION CRITERIA (BEC)	Please accept the Parent Company PTR for both Technical & Commercial BEC, Now a Days all PSU Companies Like GAIL, ONGC, IOCL are Accepting the PTR form Parent Company Having at least 50% Shares. So we are requesting you to add "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.	Tender conditions shall prevail.
22	SECTION - I INVITATION FOR BIDS (IFB)	Page 9 of 87	SECTION - I INVITATION FOR BIDS (IFB)	9.0 BIDDER EVALUATION CRITERIA (BEC)	For qualification of the both Orifice & USM Metering packages, Please accept the USM meter PTR having size & rating equal or Higher.	Bidder to refer corrigendum #1.
23	-	5 of 153	-	Scope of Supply	We understand that installation of supplied items will be taken care by customer. Please confirm.	Bidder's understanding is correct
24	-	5 of 153	-	Scope of Supply	Kindly confirm the scope of supply for cables between field to control room. If the same is in bidder's scope then pleas provide the length of cables to be supplied. We understand that laying of any type of cable from field to control room in not in bidder's scope.	Supply for cables between field to control room is in bidder's scope. Bidder to consider cable lengths, from metering skid to terminal control room approximately 100 mtrs distance.
25	-	13 of 153	-	DPT Datasheet MOC for Body & Sensor	As per OEM standard, MOC will be as per following. Body: SS 316 Sensor/Diaphragm: SS316L Please accept.	Accepted.
26	-	14 of 153	-	Orifice Datasheet	We understand that single chamber orifice is required instead of Orifice flange union as it is safe to remove orifice plate and to meet AGA 3 requirement. Please confirm.	Orifice plate shall be single fitting. Orifice shall be considered along with the upstream flow profiler, upstream and downstream meter run as per AGA3. Instrument taping, flow computer etc., shall be considered. The DP taping (2nos.) shall be considered on each flange of the orifice carrier. The size of the taping shall be 1" NPTF along with the branch pipe (1"), root valves, vents and drain flanges etc as mentioned in datasheet
27	-	14 of 153	-	Orifice Datasheet	We understand that bidder has to size the orifice meter by considering beta ration of 0.2 to 0.7 and 2500 mmwc DP. Please confirm.	Beta ratio shall be as per orifice datasheet, but DP shall be calculated as per the flow rate mentioned in the process datasheet no.: 1009-00-PC-PDS-1005.



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28	-	15 of 153	-	USM Datasheet USM shall be bi-directional	We understand that ultrasonic flow meter shall be inherently bi directional. However meter has to be installed in uni directional application with 10D+ Flow profiler +10D + Meter + 5D configuration. <u>Please confirm</u>	For bi-directional downstream spool should be same as upstream spool i.e 10 ND(Nominal pipe diameter).
29	-	15 of 153	-	USM Datasheet <u>Accuracy</u>	We understand that offered USM shall be OIML R-137 certified for 0.5 accuracy class.	Tender conditions shall prevail.
30	-	15 of 153	-	USM Datasheet <u>Body Material</u>	We understand that USM body material shall be as per Piping material specification i.e. A 216 WCB or better. <u>Please confirm.</u>	Noted. Bidder's understanding is correct
31	-	15 of 153	-	USM Datasheet <u>Transmitter Enclosure IP Rating</u>	Offered USM transmitter will have IP 66 WP and Ex d flameproof certification. <u>Please confirm acceptance.</u>	Tender conditions shall prevail.
32	-	15 of 153	-	USM Datasheet <u>Retractable Probe</u>	Since it is single metering system, we understand that online (under pressurized condition) retractable probe is required.	Bidder's understanding is correct
33	-	15 of 153	-	USM Datasheet Note-4 <u>Meter Velocity</u>	We understand that meter has to be sized by considering 20m/sec velocity limitation shall be @ maximum flow and minimum pressure. <u>Please confirm</u>	Bidder's understanding is correct
34	-	15 of 153	-	USM Datasheet Note-12 <u>Flow Transmitter Enclosure</u>	For other transmitters i.e. PT,DPT & TT, enclosure material is Die Cast Aluminum, hence we understand Die Cast Alu Material is also acceptable for USM flow Transmitter.	Noted. Bidder's understanding is correct
35	-	15 of 153	-	USM Datasheet Note-13 <u>SIL-2 Certification</u>	Please note that the same is not applicable for USM. Confirm acceptance.	Noted.
36	-	17 of 153	-	TT Datasheet <u>Accuracy</u>	Accuracy of ±0.075% is not possible for TT, normally TT accuracy will be ±0.12%, confirm acceptance.	Noted. TT accuracy will be ±0.12%.
37	-	21 of 153	-	Process Datasheet	Please provide gas composition.	Gas composition shall be provided to successful bidder.
38	-	74 of 153	-	USM Std Specifications USM Flow Calibration	For USM flow meter, we understand that wet calibration will be performed at any ISO 17025 accredited facility i.e. NMI, CEESI, TCC, GAIL-Hazira. <u>Please confirm.</u>	Confirmed.
39	-	75 of 153	-	USM Std Specifications <u>Certificate of Acceptance</u>	Offered USM have custody transfer approval from NMI. Please confirm acceptance.	Confirmed.
40	-	-	-	General	We understand that material certification will be 3.1 as per EN 10204 for all mechanical and inst items. <u>Please confirm.</u>	Bidder to note that meters & Flow computers shall be inspected according to EN 10204 3.1
41	-	-	-	General	Process data is contradictory between equipment datasheet and process datasheet, hence we understand that process datasheet parameters to be followed for design.	Bidder to refer both equipment datasheet and process datasheet and design the package items. For contradiction Bidder to mark and send the same.
42	-	-	-	P&ID	We understand that expander-reducer to match meter size in vendor's scope of supply. <u>Please confirm.</u>	Bidder's understanding is correct
43	-	-	-	Bid evaluation	We understand that Bid evaluation will be done on bottom line. i.e. Part A Orifice metering package and Part B Ultrasonic metering package together only. Separate evaluation of individual part is not applicable. <u>Please confirm</u>	Bidder's understanding is correct
44	-	7 of 87	-	Delivery - 4 months	Ultrasonic meter is required to do wet calibration and normal delivery of USM with calibration is 7 month. Hence we request to please provide delivery of complete system in 7 months.	Tender conditions shall prevail.
COMMERCIAL QUERIES						
1	Invitation for Bids (IFB)	7 of 87	Caluse 7.0 of IFB	Bidding Procedure	As per the clause no. 7.3, there is no need to submit the Hard copy document for this tender. but as per Standard T&C we have to submit the POA & EMD/Bid Security in hard copy. Please confirm.	Bidder to submit in ORIGINAL, POA and EMD/ Bid Security (in case of Bank Guarantee) to consultant's office within 07 days of Unprice Bid Opening. Bidder to note that copy of above mentioned documents need to be uploaded in the AGCL- E- Portal as well along with other bidding documents as per requirement of the tender.
2	Invitation for Bids (IFB)	11 of 87	Caluse 10.1 of IFB	TENDER PROCESSING FEE	as we have certificate of the MSME Certificate having manufacturer category, so our understanding is we are also exempted form Bid Processing fee.	Refer Clause 10.1.5 & 10.2.7 of IFB. Bidders which are registered as Micro / Small Companies / Industries under MSME act 2006 or registered as N.S.I.C shall be exempted from submission of EMD and Tender Processing Fee. Such bidders must furnish valid document i.e. valid on the date of bid submission date along with bid to avail the exemption.



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3	Instructions to Bidders (ITB)	31 of 87	Caluse 32 of ITB	EVALUATION AND COMPARISON OF BIDS	our understanding is that the evaluation will be done individually for Orifice Metering & USM Metering system. Please confirm.	Refer Corrigendum #1
4	Invitation for Bids (IFB)	8 of 87	Clause 7.6 of IFB	Due Date for Bid Submission		The due date of bid submission is extended till 26.03.2020. Please refer corrigendum #1.

NOTE:
Bidder to submit signed & stamped copy of this Reply to Pre-Bid Queries along with Un-Price Bid.



ENERGISING QUALITY

LIST OF APPROVED PARTIES FOR BOUGHT OUT ITEMS

TOTAL SHEETS

48

DOCUMENT NO

VCS

VL

001

LIST OF APPROVED PARTIES FOR BOUGHT OUT ITEMS

3	17.10.2019	RE-ISSUED AS STANDARD APPROVED VENDOR LIST	MD	MC	AD
2	25.06.2018	RE-ISSUED AS STANDARD APPROVED VENDOR LIST	MD	MC	AD
1	09.05.2018	RE-ISSUED AS STANDARD APPROVED VENDOR LIST	CM	MC	AD
REV	DATE	DESCRIPTION	PREP	CHK	APPR

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**LIST OF APPROVED PARTIES FOR
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LIST OF SUPPLIERS OF MAJOR BOUGHT-OUT ITEMS

1. (MECHANICAL & FIRE FIGHTING EQUIPMENT)

A. MAINLINE & MECHANICAL

i) Pipe Carbon Steel To Indian Standards

1. A.S.T. Pipes Pvt. Ltd. (AST Group)
2. Advance Steel Tube Ltd.
3. Apl Apollo Tubes Ltd. (Er. Bihar Tubes Ltd.
4. Asian Mills Pvt. Ltd.
5. Asrani Tubes Limited
6. Dadu Pipes (P) Ltd.
7. Essar Steel Limited(Er Hazira Pipes Mill)
8. Gaurang Products Pvt Ltd. (Ast Group)
9. Goodluck Steel Tubes Ltd.
10. Hi-Tech Pipes Limited
11. Indus Tube Limited
12. Jindal Industries Ltd
13. Jindal Pipes Ltd.
14. Jindal Saw Ltd (Kosi Works)
15. Jotindra Steel & Tube Ltd
16. Lalit Pipes And Pipes Ltd.
17. Maharashtra Seamless Ltd.
18. Man Industries (India) Ltd. – Pithampur
19. Man Industries (India) Ltd. Anjar
20. Mukat Tanks & Vessels Ltd.
21. Nezone Tubes Limited
22. North Eastern Tubes Limited
23. Pratibha Industries Limited
24. Pratibha Pipes & Structural Ltd.
25. Psl Ltd (Chennai)
26. Psl Ltd (V1, V2 & Nc)
27. Rama Steel Tubes Ltd.

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28. Ratnamani Metals And Tubes Ltd.
29. Ravindra Tubes Limited
30. Samshi Pipe Industries Limited
31. Surya Roshni Ltd.
32. Swastik Pipes Ltd.
33. Utkarsh Tubes & Pipes Ltd. (Formly Bmw)
34. Welspun Corp. Limited (Dahej)
35. Zenith Birla (India) Limited

ii) **Pipe & Tubulars To A.P.I. Standards**

1. Arcelormittal Tubular Products Roman Sa, Romania
2. Bhel (Trichy), India
3. Dalmine Spa (Enquiry To Tenaris), Uae
4. Eewkorea Co. Ltd (Germany), Korea
5. Eew Korea Co. Ltd. (Korea), Korea
6. Eisenbau Kramer Gmbh, Germany
7. Hyundai Rb Co. Ltd. South Korea
8. Ilva Lamiere E Tubi Srl (Enq To Ilva Spa, Italy)
9. Inox Tech. Spa, Italy
10. Ismt Ltd. Ahmedngr, India
11. Ismt Ltd. Baramati, India
12. Jindal Pipes Ltd., India
13. Jindal Saw Ltd. (Kosi Works), India
14. Jindal Saw Ltd. (Nashik Works), India
15. Lalit Pipes And Pipes Ltd. India
16. Maharashtra Seamless Ltd., India
17. Man Industries (I) Ltd. (Pithampur), India
18. Mukat Tanks & Vessels Ltd., India
19. Pratibha Industries Limited, India
20. Ratnamani Metals And Tubes Ltd., India
21. Siderca S.A.I.C (Enquiry Totenaris), Uae
22. Sumitomo Metal Ind. Ltd., India
23. Surya Roshni Ltd., India
24. Swastik Pipes Ltd, India
25. Tata Steel Uk Limited (Formerly C702)
26. Tubos De Acero De Mexico Sa (Enq. Tenaris), Uae

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27. Tubos Reunidos Sa Spain
28. Umran Steel Pipe Inc (Turkey), Turkey
29. Valcovny Trub Chomutov, Czech Republic
30. Vallourec And Mannesmann Tubes, France
31. Welspun Corp Limited (Dahej), India

iii) **Pipe/Tube CS (Seamless) To ASTM Stds**

1. Arcelormittal Tubular Products Roman Sa, Romania
2. Bhel (Trichy), India
3. Changshu Seamless Steel Tube Co. Ltd., China
4. Dalmine Spa (Enquiry To Tenaris, Uae
5. Heavy Metals & Tubes Limited (Mehsana), India
6. Ismt Ltd. Ahmedngr, India
7. Ismt Ltd. Baramati India
8. Jfe Steel Corporation, Uae
9. Jindal Sdaw Ltd (Nashik Works) India
10. Klt Automotive And Tubular Products Ltd., India
11. Mahalaxmi Seamless Limited, India
12. Maharashtra Seamless Ltd, India
13. Products Tubulares S.A.U, Spain
14. Ratnadeep Metal Tubes Ltd., India
15. Staineest Tubes Pvt Ltd., India
16. Sumitomo Metal Ind. Ltd., India
17. Tubos Reunidos Sa Spain
18. Valcovny Trub Chomutov, Czech Republic
19. Vallourec Andmannesmann Tubes France
20. Yangzhou Chengde Steel Pipe Co. Ltd Dubai (UAE)

iv) **Pipe Carbon Steel (Welded) To ASTM Stds**

1. Eew Korea Co. Ltd. (Germany), Korea
2. Eew Korea Co. Ltd. (Korea), Korea
3. Eisenbau Kramer Gmbh, Germany
4. Hyundai Rb Co. Ltd., South Korea
5. Inox Tech. Spa, Italy
6. Jindal Saw Ltd (Kosi Works), India
7. Lalit Pipes And Pipes Ltd., India

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8. Man Industries (I) Ltd.(Pithampur), India
9. Man Industries (India) Ltd. Anjar, India
10. Mukat Tanks & Vessels Ltd., India
11. Ratnamani Metals And Tubes Ltd., India
12. Sumitomo Metal India Ltd., India
13. Tata Steel Uk Limited

v) Valve

a) Globe Valves

- 1) M/S BDK (New Delhi)
- 2) M/S Datre Corpn (Calcutta)
- 3) M/S KSB Pumps (New Delhi)
- 4) M/S L&T (New Delhi)
- 5) M/S Neco Schuber & Salzer Ltd. (New Delhi)
- 6) M/S Niton Valve (Mumbai)
- 7) M/S Ornate Valves (Mumbai)
- 8) M/S Panchavati Valves (Mumbai)
- 9) AV Valves Ltd.
- 10) BHEL (Trichy), India
- 11) Econo Valves Pvt Ltd, India
- 12) Fouress Engg (I) Ltd (Aurangabad)
- 13) Guru Industrial Valves Pvt Ltd
- 14) Leader Valves Ltd, India
- 15) NSSL Ltd. (Neco Schubert & Salzerltd)
- 16) Oswal Industries Ltd, India
- 17) Petrochemical Engineering Enterprises, India
- 18) Sakhi Engineers Pvt Ltd
- 19) Shalimar Valves Pvt Ltd
- 20) Steel Strong Valves India Pvt Ltd, India
- 21) Petro Valves Pvt. Limited, Ahmedabad

b) Check Valves

1. M/s Advance Valves Pvt. Ltd., Noida
2. M/s Aksons & Mechanical Enterprises, Mumbai
3. M/s Larsen & Toubro Limited (M/s Audco India Limited, Chennai)

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4. M/s AV valves Ltd., Agra
5. M/s BDK engineering India Ltd., Hubli
6. M/s BHEL,OFE&OE Group, New Delhi
7. M/s Datre Coroportion Limited, Calcutta
8. M/s Leader Valves Ltd., Jalandhar
9. M/s Neco schubert &Salzer Ltd., New Delhi
10. M/s Niton Valves Industries (P) Ltd., Mumbai
11. M/s Precision Engg.Co., Mumbai
12. Econo Valves Pvt Ltd, India
13. Fouress Engg (I) Ltd (Aurangabad)
14. KSB Pumps Ltd (Coimbatore), India
15. NSSL Ltd. (Neco Schubert & SalzerLtd)
16. Oswal Industries Ltd, India
17. Panchvati Valves & Flanges Pvt Ltd, India
18. Petrochemical Engineering Enterprises, India
19. Sakhi Engineers Pvt Ltd
20. Shalimar Valves Pvt Ltd
21. Steel Strong Valves India Pvt Ltd, India

c) Plug Valves

1. M/s Breda Energia Sesto Industria Spa, Italy
2. M/s Fisher Sanmar Ltd., Chennai
3. M/s Larsen & Toubro Ltd., New Delhi
4. M/s Nordstrom Valves, USA
5. M/s Serck Audco Valves, UK
6. M/s Sumitomo Corporation India Pvt. Ltd., New Delhi
7. M/s Z Corporation, Korea
8. M/s Hawa Valves (India) Pvt. Ltd., Mumbai
9. M/s Steel Strong Valves India Pvt. Ltd., Navi Mumbai
10. M/s Econo Valves
11. M/s Flow-Serve PTE (Mfr. SERCK), India

d) Ball Valves

1. M/s Hawa Valves (India) Pvt. Ltd, Navi Mumbai
2. M/s Larsen & Toubro, Delhi
3. M/s Microfinish Valves Pvt. Ltd., Noida

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5. M/s Virgo Engineers Ltd., Delhi
6. M/s Boteli Valve Group Co. Ltd., China
7. M/s Cameron (Malaysia) SDN BHD, Malaysia
8. M/s Dafram S.P.A., Italy
9. M/s Fangyuan Valve Group Co. Ltd., China
10. M/s Franz Schuck GmbH, Germany
11. O.M.S. Saleri (Italy)
12. Pibi Viesse S.P.A (Italy)
13. Nuovo Pignone (Italy)
14. Perar S.P.A (Italy)
15. Pietro Fiorentini (Italy)
16. Cooper Cameron Valv Italy SRL-FRM, Italy
17. Petrol Valves SRL
18. Tormene Gas Technology S.P.A (VALVITALIA)

vi) Flow Tee

- 1) M/s Coprosider SPA, Italy
- 2) M/s GEA Energy System India Limited, Chennai
- 3) M/s Multitex Filtration
- 4) M/s Pipeline Engineering, UK
- 5) M/s Scomark Engg. Limited (U.K.)
- 6) M/s Skeltonhall Limited, England(U.K.)
- 7) M/s Technospecial SPA, Italy
- 8) M/s Tectubi SPA, Italy
- 9) M/s RMA Germany
- 10) M/s Pipefit Engineers Pvt. Ltd.
- 11) M/s PSN Energy Systems (up to 24"NB, 600#)

vii) Split Tee

- 1) M/s T D Williamson India Private Limited, India

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- 2) M/s Furmanite International Ltd., USA
- 3) M/s Huwelco Inc., South Houston
- 4) M/s Plant-Tech Power Technical Services Pvt. Ltd., India
- 5) M/s VKVC, India
- 6) Teemans, UK

viii) **Flanges**

1. M/s Aditya Forge Ltd., Vadodara
2. M/s Amforge Industries Ltd., Mumbai
3. M/s CD Engineering Co., Ghaziabad
4. M/s Echjay Forgings Pvt. Ltd. (Bombay), Mumbai
5. M/s Echjay Industries Ltd., Rajkot
6. M/s Forge & Forge Pvt. Ltd., Rajkot
7. M/s Golden Iron & Steel Works, New Delhi
8. M/s JK Forgings, New Delhi
9. M/s Metal Forgings Pvt. Ltd., Mumbai
10. M/s Perfect Marketings Pvt. Ltd., New Delhi
11. M/s Sky Forge, Faridabad
12. M/s S&G, Faridabad
13. Chaudhry Hammer Works Ltd, India
14. JAV Forgings (P) Ltd, India
15. Kunj Forgings Pvt Ltd, India
16. MS Fittings
17. R.N. Gupta & Co. Ltd, India
18. R.P. Engineering Pvt Ltd, India
19. Sanghvi Forgings & Engineering Ltd
20. Shri Ganesh Forgings Ltd., India
21. Uma Shankar Khandelwal & Co., India
22. Sawan Engineers, Baroda
23. Stewarts & Lloyds of India Ltd., Kolkata
24. Engineering Services Enterprises
25. Pipefit Engineers Pvt. Ltd.

ix) **Fittings**

1. M/s Commercial Supplying Agency, Mumbai

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2. M/s Dee Development Engineers Ltd.
3. M/s Eby Industries, Mumbai
4. M/s Flash Forge Pvt. Ltd., Vishakhapatnam
5. M/s Gujarat Infra Pipes Pvt. Ltd., Vadodara
6. M/s M.S. Fittings Mfg. Co. Pvt. Ltd., Kolkata
7. M/s Stewarts & Lloyds of India Ltd., Kolkata
8. M/s Teekay Tubes Pvt. Ltd., Mumbai
9. M/s Pipe Fit, Baroda
10. M/s Sky Forge, Faridabad
11. M/s S&G, Faridabad
12. M/s Sawan Engineers, Baroda
13. Eby Fasteners, India
14. Leader Valves Ltd, India
15. R.N. Gupta & Co. Ltd, India
16. Exten Engg Pvt Ltd
17. Sivananda Pipe & Fittings Ltd
18. Sawan Engg - Vadodara
19. P.K. Tubes –rajasthan
20. CSA fittings
21. Dee Development Engineers Limited (Palwal)
22. Fittech Industries Pvt Ltd (Thane)
23. Gujrat Infrapipes Pvt Ltd ,Vadodara
24. K.S Pipe Fittings (P) Ltd, Palwal
25. Teekay Tubes Pvt Ltd (New Mumbai)
26. Petro Chem Industries, Vadodara
27. Topaz Piping Industries ,Vadodara
28. Tube Bend ,Calcutta
29. Tube Turn India Pvt Ltd , Navi Mumbai
30. Sidharth & Gautam Engineers

i) Gaskets

1. IGP Engineers (P) Ltd., Madras
2. Madras Industrial Products, Madras
3. Dikson & Company, Bombay
4. Banco Products (P) Ltd., Vadodara
5. Goodrich Gaskets Pvt Ltd

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6. Starflex Sealing India Pvt Ltd, India
7. Teekay Meta Flex Pvt Ltd
8. UNIKLINGER Ltd
9. HEM Engg. Corp.
10. Unique Industrial Packing Pvt. Ltd.

ii) **Fasteners**

1. Nireka Engg. Co. (P) Ltd., Calcutta
2. Precision Taps & Dies, Bombay
3. AEP Company, Vithal Udyoung Nagar
4. Fix Fit Fasteners, Calcutta
5. Precision Engg. Industries, Baroda
6. Echjay Forgings Pvt. Ltd., Bombay
7. Capital Industries, Bombay
8. Boltmaster India Pvt Ltd, India
9. Deepak Fasteners Limited, India
10. Fasteners & Allied Products Pvt Ltd, India
11. Hardwin Fasteners Pvt Ltd, India
12. J.J. Industries, India
13. Multi Fasteners Pvt Ltd, India
14. Nexo Industries, India
15. Pacific Forging & Fasteners Pvt Ltd, India
16. Pioneer Nuts & Bolts Pvt Ltd, India
17. Precision Auto Engineers, India
18. President Engineering Works, India
19. Sandeep Engineering Works, India
20. Syndicate Engineering Industries, India

iii) **Welding Electrodes**

1. For Mainline – Lincon make
 2. For Terminal – For root pass - Lincon Make
- For other passes – Lincon, D&H or equivalent make

iv) **Fire Fighting Equipments**

a) Fire Extinguishers

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1. Avon Services (Production & Agencies) Pvt. Ltd., Bombay
2. Kooverji Devshi & Co., Bombay
3. Zenith Fire Services, Bombay
4. Safex Fire Services, Bombay
5. Reliable (Fire Protection) India Ltd., Bombay
6. Brij Basi Hi
7. tech Udyog
8. Bharat Engg Works, India
9. Gunnebo India Ltd
10. Nitin Fire Protection Industries Ltd, India
11. Supremex Equipments, India
12. Vimal Fire Controls Pvt Ltd., India

b) Fire Hydrants, Monitors, Deluge Valve, Nozzles


1. Zenith
2. Minimax
3. Newage
4. HD Fire
5. Vijay Fire
6. Asco Strumech Pvt Ltd, India
7. Brij Basi Hi
8. tech Udyog
9. Gunnebo India Ltd
10. Nitin Fire Protection Pvt Ltd
11. Shah Bhogilal Jethamal & Brothers
12. Venus Pumps & Engineering Works

c) RRL Hose

1. Jayshree
2. Newage

d) Hoses

1. Ashit Sales Corporation, Bombay
2. Royal India Corporation, Bombay
3. Gayatri Industrial Corporation
4. Simplex Rubber Products Ltd., Ahmedabad

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5. Zaverchand Marketing Pvt. Ltd., Baroda
6. Presidency Rubber Mill, Calcutta
7. The Cosmopolite, Calcutta
8. Simplex Rubber Products, Thane

e) Hose Delivery

1. Chhatarya Rubber & Chemical Industries,
2. Nitin Fire Protection Industries Ltd, India

f) Fire Hose Accessories

1. Asco Strumech Pvt Ltd
2. Brij Basi Hi-tech Udyog
3. Gunnebo India Ltd
4. Shah Bhogilal Jethamal & Brothers
5. Vimal Fire Controls Pvt Ltd., India

g) Heat Shrinkable Sleeves

1. Covalence Raychem (Berry Plastics Corporation)
2. Canussa – CPS

h) Cold Applied Tapes

1. Denso GmBH
2. Polyken (Berry Plastics Corporation)

i) PUR Coating

1. Powercrete (Berry Plastics Corporation)

j) Casing End Closure

1. Raci, Italy
2. Raychem RPG Limited

k) Casing Insulators

1. Raci, Italy
2. Raychem RPG Limited

l) Rockshield

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1. Raychem RPG Limited

m) Warning Tape /Mesh

1. Sparco Multiplast Pvt. Ltd., Ahmedabad
2. M/s Raychem RPG Limited
3. Singhal Industries Private Limited

n) High Build Epoxy Coating

1. Berry Plastics – Powercrete
2. Specialty Polymer Canada
3. Denso Protal, Canada

o) Casing Insulators

1. Raci, Italy
2. Raychem RPG Limited
3. Veekay Vikram

v) DRY GAS FILTER & FILTER SEPERATOR

1. Grand Prix Fab (Pvt.) Ltd.(New Delhi)
2. Perry Equipment, USA
3. Faudi Filter, Germany
4. Forain S.r.l., Italy
5. ABB, Faridabad
6. Burgess Manning, USA
7. Multitex Filtration Engineers India
8. Triveni Plenty Engg. Ltd. (New Delhi)
9. Siirtec International Contractor S.P.A (Italy)
10. Flashpoint, Pune india
11. Filtration Engineers (I) Pvt Ltd, India
12. Gujarat Otofilt, India
13. Tormene Gas Technology

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14. Ultrafilter (India) Pvt Ltd, India
15. Ravi Techno Systems Pvt Ltd, India
16. Siirtec Nigi S.P.A
17. Filtan Filter Anlagenbau Gmbh
18. Fairley Arlon BV
19. PECO Facet
20. EPE Epenstenner GMBH
21. Filtrex srl
22. Petromar Engineered Soln
23. Plenty Filter
24. Eurofiltec
25. PTI Technologies Inc

vi) QUICK OPENING END CLOSURE (QOEC)

1. Forain S.R.L.
2. GD Engineering
3. Pipeline Engineering, UK
4. Siirtec Nigi S.P.A
5. TD Williamson
6. Peerless
7. Grinelli
8. Huber Yale
9. Tube Turn (U.S.A.)
10. Pipeline Technologies, France
11. M/s Grand Prix Engineering Pvt. Ltd.
12. M/s VKVC LLP
13. M/s Multitex Filtration Engineers Ltd

vii) FILTER ELEMENT

1. Peco – Facet
2. Velcon

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3. Pall – Filterite
4. Burgress Manning

viii) **NDT Agency**


1. NDT Services, Ahmedabad
2. GEECY Industrial Services Pvt. Ltd., Mumbai
3. Corrosion Control Services, Mumbai
4. Perfect Metal Testing & Inspection Agency, Calcutta
5. Inter Ocean Shipping Co., New Delhi
6. RTD, Mumbai
7. Sievert, Mumbai
8. X-Tech, Vizag

ix) **Long Radius Bends**

1. M/s BHEL, Trichy, Tamilnadu
2. M/s Jindal SAW Limited, (Koshi Works), U.P.
3. M/s PSL Limited, Gandhidham, Gujarat
4. M/s Welspun, Gujarat
5. M/s Fabricon, Belgium
6. M/s Sawan
7. M/s Gujarat Infra
8. M/s P K Tubes
9. M/s DEE Development
10. Pipefit Engineers Pvt. Ltd.

x) **PIG LAUNCHERS/ RECEIVERS/ PIG SIGNALERS**

1. Bassi Luigi Fittings B.V., Holland
2. BRAUN STAHL PIPE TEC, GERMANY
3. FORAIN, ITALY
4. Fluidel SRL, ITALY

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5. RMA Maschinen- und, GERMANY
6. Siirtec Nigi, Itlay
7. SCHUCK ARMATUREN, GERMANY
8. T.D. Williamson Inc., USA
9. Tectubi SPA, Italy
10. Taylor Forge Engineering System INC, USA
11. Tormene Americana S.A. (Argentina)
12. Tormene Gas Technology S.p.A., Italy
13. PIPELINE ENGINEERING, UNITED KINGDOM
14. Krohne, Oil & Gas BV, Drive Houston,
15. Multitex Filtration Engrs. Ltd, New Delhi
16. BGR ENERGY SYSTEMS LIMITED New Delhi
17. Glapwell Contracting Services Ltd. UK
18. FULGOSI GIOVANNI S.n.c di Corrado & C , ITALY
19. VEEKAY VIKRAM & CO, GUJRAT
20. GBM S.R.L, ITALY
21. Multitex Filtration Engineers Ltd., India
22. Cardew Ltd., Alexeander
23. Forain S.R.L.
24. GD Engineering, India
25. Pipeline Engineering, UK
26. Siirtec Nigi SPA

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LIST OF MATERIALS OF APPROVED BRAND AND/ OR MANUFACTURE

B. (CIVIL & STRUCTURE)

Unless otherwise specifically mentioned in the Schedule of Items, Contractor has to use materials as listed below, of only these brand names/Company's names, which are mentioned in the approved list for civil, water supply and sanitary items thereon.

CIVIL

Sr. No.	Items/ Name of Products	Make/ Brands/ Manufactures
1.	Reinforcement Steel	TATA,SAIL,RINL,IISCO,RATHI
2.	Cement	Ambuja,ACC,JK,Grasim,Ultratech,Birla,L&T,Cement
3.	Structural Steel	TATA,SAIL,RINL,IISCO,ESSAR, ISPAT
4.	Pre- engineered building (PEB) firms	Kirby Building system India ltd ,Interach Building Product limited, Tata blue scope steel ,Lloyd Insulation India ltd, Everest Industries. Ltd. Modern Prefab System Pvt Ltd,Aster Building Solution Pvt.Ltd, Octamec Engineering Ltd,Jindal Mectec Pvt Ltd,Fedders Loyd Corporation Ltd.
5.	Structural Steel Tubes ISI Marked	TATA, JINDAL , SURYA , SWASTIK
6.	(a) Zinalume colour coated steel sheet(COIL) (b) Profile of Sheet(as per tender specification)	(a)Tata Blue scope, Dongbu Steel ,Union Steel, JSW STEEL Ltd. Kirby Building system India ltd ,Interach Building Product limited, Tata blue scope steel ,Lloyd Insulation India ltd, Everest Industries. Ltd. Modern Prefab System Pvt Ltd,Aster Building Solution Pvt.Ltd, Octamec Engineering Ltd,Jindal Mectec
7.	Polycarbonate Sheet	Sabic Innovative Plastic , Everest
8.	Mineral wool for thermal insulation of ceilings (Under deck insulation)	Rock wool (india) Ltd. Minwool Rock Fibres Ltd., Lloyd Insulation,
9.	Rolling shutters(ISI marked)	Swastic, Hercules, Shubdwar, M/s Bharat Rolling Shutters Industries Agra, Bengal Rolling Shutter Rama Rolling Shutter Works, Gandhi Entrance Automations Private
10.	Wind driven air Ventilators	Apurva Enterprises (Mumbai), SVS Wind Driven Turbo Ventilator(Ahmadnagar),Real Green Engineers Pvt.Ltd. Bangalore;Sun Green Ventilation system

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		Mumbai, Multi colour, Anchit Ispat Pvt Ltd. (Faridabad),
11.	Synthetic Enamel Paint (1st quality only)	ICI Paint (Dulux), Asian Paint (Apolite), Berger Paints (Luxol). Goodlass Nerolac Paints (Nerolac), Jenson & Nicholson Paints Ltd (Borolac), Shalimar,
12.	G.I SHEET	ESSAR,JSW,,SAIL
13.	Sheeting Screw	Corroshield, Buildex,
14.	Chemical for Antitermite treatment	DE- NOCIL Bombay, Pest Control of India, Trishul
15.	Factory made Panelled Door shutter	M/s Goel Brothers Raipur New Industrial Area Raipur (CG) M/s Hindustan Housing factory Ltd- New Delhi M/s Delhi Construction Eqpt Sadar Bazar Delhi M/s Joinery manufacturing Co Calcutta M/s Goyal Industries Faridabad M/s Surbhi Metal (India) Ltd Jodhpur
16.	Flush doors IS-2191, 2202	M/s Mysore Wood Products M/s Laxmi Doors, Faizabad Road, Chinhat, Lucknow M/s Merino flush doors M/s Poiner Timber Products, Chandigarh, M/S Goyal Industries Faridabad
17.	Fly proof doors (Made out of solid block marine grade)	M/S Laxmi Doors, Faizabad Road, Chinhat, Lucknow, Northern doors Kanpur
18.	Natural Fibre Thermo Composite door/window shutter & frames, roofing sheets etc	Durosam
19.	PVC Panel Door (Solid Core)	Rajshri Plastiwood Limited, Sintex, Hindopan, Marino
20.	Pressed steel door frames/ cupboard and window frames (manufacturers)	M/s SAIL, M/s TATA

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21.	Pressed steel door frames/ cupboard and window frames (fabricators)	M/s Loyal safe works Mayapuri, N/Delhi M/s Multiwyn Industrial Corpn Calcutta M/s Metal Window Corpn N/Delhi M/s Chhabra Steel Udyog, 260 Sadar Bazar, Meerut Cantt M/s Delite safe works, Rani Jhansi Road, N/Delhi M/s Ishwar Industries, 175/A Bombay Bazar, Meerut Cantt M/s Chandni Industries, J-142, Patel Nagar 1st, Ghaziabad.
22.	Steel Windows, Ventilators(as per IS-1038 of 1983) & frames pressed steel door/window	M/S Multiwyn Industrial Corpn Calcutta M/S Metal Window Corp N/ Delhi Govind Enterprises, Delhi M/S Chhabra Steel Udyog 260, Sadar Bazar, Meerut Cantt, Agent steel MFG Pvt Ltd, Ahmedabad, Godrej, M/S Chandni Industries, J-142, Patel
23.	Al Section for Al Door/ Window/ Partitions	Hindalco, Indal, Ajit India, Jindal
24.	Aluminum/ Door/ Window/ Glazing Fabricated and Anodized	M/s Ahlcon M/s Alumilite Pvt Ltd, M/s Ajit India Pvt Ltd, M/s Ramniklal S Raste Agra, Argent Industries, M/s Aluminium Tech Industries, I-2249 DSIDC Narela, Delhi,
25.	Aluminium door and windows Fittings	M/s Elite Enterprises C/6 Shalimar Hardware 133, Jarg Mahal, Dhobitalao Mumbai 400002. M/s Mohan Metal Industries 178/2-A, Bhole Nath Nagar, Shahadara, Delhi 110032. Mepro, Argent New Delhi, Classic, New Delhi. Jindal, Argent New Delhi, Golden Industries Pvt. Ltd. ECIE
26.	Automatic Glass Door	Ditec (Gandhi)
27.	Aluminium Grill	Alu Grill, Arihant Aluminium Corporation, Decogrille
28.	Door Closer	Everite, Golden, Gandhi
29.	Floor Spring	Prabhat, Everite
30.	Builders Hardware	M/s Golden Industries Pvt. Ltd., Everite, Solo, Hardwyn
31.	Plywood for general purpose (IS-303)	National Plywood Inds Pvt Ltd, S Fancy lane, 8th floor Calcutta-700001,
32.	Pre laminated Particle board	Kitply, Bhutan board, Ecoboard, Novapan, Archid ply, Merinova, Merino
33.	Laminated Sheets	Formica, Merino Lam, Greenlam, National
34.	Modular Partitions	Godrej, Blowplast



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35.	False Ceiling (Mineral Fibre Board)	Armstrong, , Daiken, Luxalon, Llyods, Gypboard,Trac,Aerolite
36.	False Ceiling (POP/ Gypsum Board)	Gypboard, Anchor ceiling tiles, LA
37.	Aluminium False Ceiling	Lloyds,Armstrong,Luxlon,Trac
38.	Flooring Tiles (Mosaic / Terrazzo / PCC) (1st quality only)	M/S Mehtab Tiles, NITCO, Royal Tiles, Gem Tiles, Hindustan Tiles, M/S National Tiles & Industries, Ultra Tiles
39.	Glazed Ceramic Tiles, Non-Skid (Floor/Wall), (1st quality only)	Kajaria, Somany, NITCO. Murudeshwar Ceramic Ltd (Navin Diamond tile), Johnson (Marbonite), Marbita, Somany, Orient, Asian
40.	Vitrified/ Designer Vitrified Tiles (1st quality only)	Asian, Marbonite (Johnson), Kerrogres (Kajaria), NITCO, Orient
41.	PVC Tiles/Flooring (IS 3461) (1st quality only)	Marblex Tiles, Krishna Tiles, Polyfin, Armstrong, Wonder floor.
42.	False Flooring	Godrej or equivalent
43.	Glass Mosaic Tiles (1st quality only)	Paladio, Coral, Accura, Bisazza, Italia, Mridul.
44.	Designer Paver Tiles/ Interlocking tiles ISI marked/ Grass-jointed Tiles (1st quality only)	Pavit, Ultra, Hindustan, Eurocon, Vyara, National Tiles, Gem, Unistone, Konkrete, Unitile
45.	Glass reinforced Paver block	Unistone or equivalent
46.	Wall care Putty for Base preparation (1st quality only)	Birla Wall care putty, Berger, Jenson & Nicholson, JK White
47.	White Cement (1st quality only)	Birla, JK
48.	Cement based Paints (1st quality only)	Super Snowcem, Duracem, Super Acrocem.
49.	Dry Distemper / Oil bound Distemper (1st quality only)	Goodlass Nerolac Paint, Shalimar Paint, Jenson & Nicholson, Asian Paint, Berger. ICI
50.	Acrylic Washable Distemper (1st quality only)	Asian, Berger, ICI Dulux, Jenson & Nicholson, Nerolac,Shalimar,Garware & Goodlass
51.	Plastic Emulsion Paint (1st quality only)	Asian, Berger, ICI, Nerolac, Jenson & Nicholson, Shalimar,Garware & Goodlass
52.	Exterior Acrylic Emulsion (1st quality only)	ICI (Weathercoat), Excel (Nerolac), Apex (Asian), Berger, Jenson & Nicholson, Shalimar,Garware & Goodlass
53.	Polymer based Paint	STP,CICO
54.	Textured Paint / Wall Tile (1st quality only)	Unitile, Heritage, Spectrum, lokos, Acropaints, Asian



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55.	Flexible board for Expansion joint	STP or equivalent
56.	Grout	Shrinkomp,Fosroc,Fairmate
57.	Integral water proofing compound	STP, Pidilite, Fosroc, CICO, Sika.
58.	Concrete Admixture	Pidilite, Fosroc, CICO, Sika.
59.	Water proofing for cementitious surface IS-2645	Acrocrete & Acrocote, CICO, Fosroc, STP
60.	Bituminous Product	M/s Faridabad Spinning & Woolen Mills Pvt Ltd, 837, SP Mukherjee Marg Delhi, M/s STP Ltd (Formerly Shalimar Tar Products) M/s Bitufelt Pvt Ltd 123/377 Fazalm Ganj Kanpur 208012, Texas, Texas India Ltd,
61.	Hardeners	Ironite, Ferrok, Hardonate
62.	Construction Chemicals	Choksey, CICO, Forsroc, Sika
63.	Non Metallic Surface Hardners	CICO, Fosroc, STP, Sika
64.	Corrugated, Semi Corrugated & AC Sheets (IS-459-1970,IS-2098)	M/s Everest Bldg Products Ltd Jata Sankar Bosa Marg Muland (west) Bombay 400080, M/s Ramco AC Sheets "SWASTIK", M/s Eternit Everest Ltd, UP Asbestos Ltd
65.	GI Sheet ISI Marked	Multicolor, TATA, Bluescope, JSW, Colour Plus, Interarch, Lloyds, Jindal,
66.	Sheet Glass /Structural Glazing	Hindustan Pilkington Glass Works, Saint Gobain, Modi
67.	Multiell / Multiwall Polycarbonate Panel	M/s Coxwell Domes Engineering , Delhi, M/s Lexan , M/s Gallina India Pvt. Ltd.
68.	Stainless Steel Cladding	Jindal
69.	Punch Tape Concertina Coil	Global Technocrat, S.G.Engineers Delhi
70.	Punch Tape In Plastic Spool	Global Technocrat, S.G.Engineers Delhi
71.	Stainless Steel Railing	Jindal
72.	FRP/ HDPE Garbage Bins	Sintex, Swift, Nutech, Sheetal
73.	Thermoplastic Road Marking Paint	Shalimark (STP)
74.	Bollard	STP
75.	Cateye	TATA, STP
76.	Readymade Speed Breaker	STP

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77.	Fountain	Ripples, Green Evolutions, Agritech Services, Premier
78.	Multi-Vent	Multicolor
79.	Sanitary ware	Neycer Kermag (standard), Hindustan Sanitary Ware (1st quality), Parryware (superfine), Cera (1st quality), Classica (1st /
80.	WC seat cover ISI Marked	Parryware, Neycer Kermag (standard), Hindustan Sanitary Ware (1st quality), Cera (1st quality), Classica (1st / standard)
81.	PVC Flushing Cistern IS: 774-1984 (ISI Certified)	Parryware, Hindustan Sanitary Wares, Cera.
82.	Faucets & Taps, Stop Valves & Pillar Taps, Surgical basin mixer, Shower rose etc.	Gem, Parko, Parryware, HSW, Jaquar, Orient
83.	Kitchen Stainless Steel Sink	Diamond, Nirali, Neel Kanth, Jayna
84.	Looking Mirror	Saint Gobain, Modi Float, Triveni Float Glass, Crown, Atul, Ashai
85.	Ready made Bathroom Cabinets	Commander Gratings (I) Pvt Ltd, Gratolite Cabinet, A-4 Sector VIII Noida-202701, Alpina, Cera.
86.	Float Valve	Leader, Bombay Metal & Alloy Co, Bombay superflow.
87.	SGSW Pipes (IS-651) ISI Marked	Perfect Agra, Devraj Ind Gaziabad, Buran, RK, Prince,
88.	CI (Centrifugally Cast) Pipes for sewage disposal ISI marked	NICCO, SRIF, A-1 Singhal Casting Co Agra, Jindal Saw, Kesoram, NECO
89.	PVC rain water/sewage pipes (IS-4985)	Reliance, Finolex, Supreme, Kisan, Prince, Hindustan Plastic & machine corporation, Polypack industries (P) Ltd.
90.	HDPE Water storage tanks (Rotational Moulded)	Sintex, Swift, Nutech, Sheetal
91.	Cast Iron Pipes and Fittings	Hindustan Engineering Products Company Calcutta, S..L.C., Standard approved manufacturers of any other brand of fittings
92.	RCC Pipes	Indian Hume Pipe Company, Delhi / Allahabad / Chandigarh / Lucknow; Hindustan Pressure Pipes, Kolhapur; Dhere Concrete Products, Pune or any other approved manufacturer conforming B.I.S.
93.	Brass Fittings	Leader Engineering Works, Jalandhar; L & K Mathura; Luster Sanitary, Jalandhar; Annapurna Metal Works, Calcutta; Neta Metal Works, Jalandhar; Honey Industrial



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94.	C.P. Fittings	Ego Metal Works, Ballabgarh; Jaquar Industries, Delhi; Soma Plumbing Fixtures Limited, Calcutta; Gem Sanitary Appliances Pvt. Ltd., Delhi; Essco Sanitations, Delhi; Bilmet,
95.	Stone Ware (Salt-Glazed) Pipes	Hind Ceramics Limited, Orissa; Ceramic Industries Limited, Sambalpur; Shrikamakshi Agencies, Madras; Binary Udyog Pvt. Limited, Howrah; Tirumati Moulds Limited, Nagpur; Kiran Potteries, Hyderabad; Perfect Sanitary
96.	Asbestos Cement Pipes and Fittings	Ganga Asbestos Limited, U.P.; Hyderabad Asbestos Cement Products Limited; J.K. Super Pipe Industries, Nanded; Konark Cement and Asbestos Limited, Orissa; Maharashtra Asbestos Limited, Bombay; Poddar Industrial Corporation, Patna;
97.	HDPE pipes and fittings	ORI-PLAST, HASTI

STRUCTURE

Sl. No.	Items/Name of Products	Makes/Brands/Manufactures
1	Structural Steel	SAIL / TATA / RINL / IISCO / ESSAR / ISPAT
2	Structural Steel Tubes ISI Marked	TATA / JINDAL / SURYA / SWASTIK
3	Synthetic Enamel Paint Ist Quality only	ICI Paint (Deluxe), Asian Paint (Apolite), Shalimar Paint (Superlac), Goodlass, Nerolac Paint (Nerolac), Berger Paints

Any materials not fully specified in these specification and which may be offered for use in the works shall be subject to approval of Engineer, without which it shall not be used anywhere in the construction works.

**LIST OF APPROVED PARTIES FOR
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LIST OF SUPPLIERS OF MAJOR BOUGHT-OUT ITEMS -ELECTRICAL

C. (ELECTRICAL)

i) Air Conditioner

1. O General
2. Daikin
3. Hitachi

ii) Batteries (Lead Acid)

1. Amco Batteries Ltd.
2. Exide Industries Ltd.
3. HBLNIFE Power System Ltd.
4. Amara Raja Batteries Ltd.

iii) Batteries (Nickel Cadmium)

1. Amco Batteries Ltd.
2. HBLNIFE Power Systems Ltd.

iv) Batteries Charger/DC-DC Converter

1. Amara Raja Power System(P)Ltd.
2. BCH.
3. Chhabi Electricals Pvt. Ltd.
4. Caldyne Automatics Limited
5. Dubas
6. HBL Nife Power Systems Ltd.
7. Universal Industries Products
8. Universal Instrument Mfg Co Pvt Ltd

v) Cable – Fire Alarm & Communication Cables

1. Cords Cable Industries Ltd.
2. CMI
3. Delton cables Ltd.
4. ELKAY Telelinks
5. KEI Industries Ltd.

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6. Reliance Engineers Ltd.

vi) Cable – HT(XLPE)


1. Universal Cable Ltd.
2. KEI Industries Ltd.
3. Industrial Cables
4. NICCO Corporation Ltd.
5. Uniflex
6. Polycab.
7. Torrent cables Ltd.

vii) Cable – LT Power and Control

1. Cords Cable Industries Ltd.
2. Universal Cable Ltd.
3. KEI Industries Ltd.
4. Havells.
5. Delton
6. Elkay Telelinks
7. Evershine Electricals
8. Ecko
9. Ravin
10. Rallison.
11. Suyog
12. Netco
13. Uniflex
14. Paramount
15. Gloster
16. Associated cables Pvt Ltd.
17. CMI
18. Gemscab
19. Industrial cables
20. NICCO
21. Polycab
22. Torrent

viii) Cable – Gland

1. .Baliga

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2. .Comet
3. Flexpro
4. Flameproof
5. FCG
6. Electro Werke
7. Dowels
8. CCI

ix) Cable – Lugs

1. Dowels
2. Jainson
3. Ismal

x) Cable – Tray

1. Ercon Composites
2. Yamuna Power & Infrastructure Ltd.

xi) Cable Termination and Jointing Kit

1. CCI
2. Raychem
3. M-Seal

xii) Ceiling/Exhaust/Pedestal Fans & Circulators

1. Bajaj Electricals Ltd.
2. Crompton Greaves Ltd.
3. Khaitan Electricals Ltd.
4. Havell's

xiii) Contractors – AC Power

1. Andrew Yule
2. ABB
3. BHEL
4. C&S
5. Havell's

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**LIST OF APPROVED PARTIES FOR
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6. L&T
7. Schneider
8. Siemens Ltd.
9. Telemecanique

xiv) Control Transformer

1. AE
2. Indushree
3. Intra Vidyut
4. Kalpa Elektrikals
5. Transpower Industries Ltd.
6. Siemens

xv) DG Set

1. Sterling and Wilson.
2. GD ankalesaria.
3. Deev Genset.
4. Jackson Limited.
5. Sudhir Gensets.
6. Power Engineering (India) Pvt Ltd.
7. Prasha Technologies Limited.
8. Kumar Generator house.
9. Ashok Leyland Ltd.
10. Powerica Limited.
11. Supernova Engineers Limited.
12. Bhaskar Power Products (P) Ltd.
13. Caterpillar India (P) Ltd.
14. Cummins India Ltd.
15. Escorts Ltd.
16. Greaves Cotton Ltd.
17. Kirloskar Ltd.
18. Mahindra & Mahindra Ltd.
19. Honda.
20. Perkins.
21. Eicher.

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LIST OF APPROVED PARTIES FOR BOUGHT OUT ITEMS

22. Tata Motors.

23. Ashok Leyland.

xvi) Earthing Materials

1. Rukmani Electrical & Components Pvt Ltd.

2. Indiana Grating Pvt Ltd.

3. Jef Techno Solutions Pvt Ltd

Flame proof LDB's/ JB,s/Control Station/ switches

7. FCG

8. Sudhir

9. Prompt Engineering Works

10. Flame Proof equipments pvt. Ltd.

11. Baliga Lighting Equipments Pvt. Ltd.

12. Flexpro Electricals Pvt. Ltd.

xvii) High Mast

1. Bajaj Electricals Limited

2. Crompton Greaves Limited.

3. Philips India Limited

4. Surya Roshani

xviii) High Voltage PCC/ MCC panels

1. BHEL

2. Control and Switchgear

3. Siemens

4. Tricolite Electrical Industries

5. Schneider

6. CGL

7. L&T

xix) Indicating Lamps

1. Alstom Ltd.

2. BCH

3. L&T Ltd.

4. Siemens Ltd.

5. Vaishno Electricals



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xx) Indicating Meters

1. ABB
2. AMCO
3. AE
4. Alstom Ltd. (EE)
5. Conzerv/Schneider
6. Elecon Measurement Pvt. Ltd.
7. HPL Electric & Power Pvt. Ltd.
8. MECO Instruments Ltd.
9. Minilec
10. Rishabh Instruments Pvt. Ltd.
11. Trinity energy system
12. kaycee
13. Salzer

xxi) Lighting Fixtures

1. GE Lighting Pvt. Ltd.
2. Bajaj Electricals Ltd.
3. Crompton Greaves Ltd.
4. Philips India Ltd.

xxii) Lighting Fixtures – Flameproof

1. Bajaj Electricals Ltd.
2. Baliga Lighting Equipment Pvt. Ltd.
3. Crompton Greaves Ltd.
4. CEAG Flameproof Controlgear Pvt. Ltd.
5. Flexpro Electricals Pvt. Ltd.
6. Philips India Ltd.
7. Sudhir Switchgears Pvt. Ltd.
8. FCG.

xxiii) Miniature Circuit Breakers (MCBs) and Lighting DB

1. ABB
2. Hagger

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3. Havell's India Ltd.
4. Indo Asian Fusegear Ltd.
5. Legrand
6. MDS Switchgear Ltd.
7. Schneider
8. Siemens Ltd.
9. HPL

xxiv) Moulded Case Circuit Breaker (MCCBs)


1. ABB
2. Andrew yule
3. Larsen & Toubro
4. Schneider
5. Siemens
6. Control and Switchgear

xxv) Protection Relays – Thermal

1. BCH
2. L&T Ltd.
3. Siemens Ltd.
4. Telemenchanique & Controls (India) Ltd.

xxvi) Low Voltage Power Control Center (PCC)/ MCC/ PDB/ MLDB/ LDB

1. ABB
2. BCH
3. C & S
4. Elecmech Switchgear & Instrumentation
5. KMG ATOZ
6. L&T
7. Pyrotech Electronics Pvt. Ltd.
8. Risha control Engineers Pvt. Ltd.
9. Siemens
10. Tricolite Electrical Industries
11. Unilec Engineers ltd.
12. Vidyut Control India Pvt. Ltd.
13. Control and Schematic
14. Zenith Engineering

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xxvii) Push Buttons

1. BCH
2. Alstom Ltd.
3. L&T
4. Siemens Ltd.
5. Telemenchanique & Controls (India) Ltd.
6. Vaishno Electricals

xxviii) Switches-Control

1. BCH
2. Easum Reyrolle Relays & Devices Ltd.
3. Alstom
4. Kaycee Industries Ltd.
5. L&T
6. Siemens Ltd.

xxix) Switches – 5/15A Piano/ Plate, Switch Socket

1. Anchor Electronics & Electricals Pvt. Ltd.
2. Kingal Electricals Pvt. Ltd.
3. North-West Switchgear Ltd.

xxx) Switch Socket Outlets (Industrial)

1. Alstom Ltd.
2. Best & Crompton Engineering Ltd.
3. BCH
4. Crompton Greaves Ltd.
5. Essen Engineering Company Pvt. Ltd.

xxxi) Solar Modules

1. Tata BP Solar (I) Ltd.
2. REIL, Jaipur.
3. CEIL, Sahibabad.
4. HBL Power

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xxxii) Solar Street Lighting

1. Tata BP Solar (I) Ltd.
2. REIL, Jaipur.
3. CEIL, Sahibabad.
4. HBL.

xxxiii) Terminals Blocks

1. Connectwell
2. Controls & Switchgear Co. Ltd.
3. Elmex Controls Pvt. Ltd.
4. Essen Engineering Co. Pvt. Ltd.

xxxiv) Transformers

1. ABB
2. Andrew Yule
3. Areva
4. BHEL
5. Bharat Bijlee
6. Crompton Greaves
7. EMCO Ltd.
8. Intra Vidyut
9. Indushree
10. Indcoil
11. Kirloskar
12. Skippers Electricals
13. Transformers & Rectifiers (I) Ltd.
14. Voltamp

xxxv) UPS System and Inverter

1. DB Power
2. Aplab
3. Keltron
4. Hi-Rel
5. Dubas
6. Toshiba Corporation
7. Fuzi Electric Co Ltd

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xxxvi) GI-Octogonal Pole

1. Bajaj
2. Transrail
3. Wipro

xxxvii) List Of Recommended Manufacturers for Heater

1. Escorts Limited, Faridabad, Haryana
2. Spherohot / Kanti Lal Chuni Lal & Sons Appliances Pvt Ltd.Surat
3. Kerone, Bhayander(E), Thane - 401105
4. Excel Heaters, Andheri (West), Mumbai - 400 053, India
5. Nirmal Industrial Controls Pvt. Ltd. , Mulund(W), Mumbai - 400 080

NOTE:- Item/Vendor, which are not listed above, shall be subject to prior approval from Client/Consultant.

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LIST OF MATERIALS OF APPROVED BRAND AND/ OR MANUFACTURE

D. (INSTRUMENTATION)


I. OFC

Manufacture/Procurement, Testing and supply of suitable OFC Joint closures including all necessary accessories of any of the following make:

1. Raychem
2. 3M
3. Siemens
4. Any other make from the approved vendor list of client with supporting paper

II. METERING SKID

1. M/s Chemtrols Industries Ltd., Mumbai
2. M/s Daniel Measurement Solutions Pvt Ltd, Vadodara.
3. M/s Elster-Instromet India Pvt Ltd, Vadodara
4. M/s INEL Gas Controls Pvt Ltd, Vadodara.
5. M/s Nirmal Industrial Controls Pvt. Ltd., Mumbai
6. M/s Oswal Industries Limited, Ahmedabad
7. M/s Autometer energytech ltd, NOIDA
8. M/s Rockwin Flowmeter india Pvt Ltd, Ghaziabad.
9. M/s Intromet international Ny Rajkmakeriaan 9, B-2910, Essen , Belgium
Emailsales@instromet.be
10. M/s Pietro Fiorentini Spa, 20124, Milino, Itally, sales@fiorentini.com
11. M/s FMC Measurement Solutions , 6 Braidway , thetford, Norfolk, IP24 1 JA, England. Email- phil.lamming@fmcti.com
12. M/s Petrogas Gas system BV, Doesburgweg, 7 , 203 PL Gouda, PO Box 20, 2800, AA Gouda Netherland. Email- info@petrogas.nl
13. Tormene Gas technology SpA, via campolongo, 97, 35020 – Due carrare (Padova)
Itally email – tormene@tormene.it
14. M/s ODS BV, Donk 6, 2291 Berendrecht, Netherland, email - info@odsbv.nl
15. M/s RMG Regel + Messtechnik GmbH Osterholzstr, 45, D-34123 Kassel, Germany
email- rmg@rmg.de , Gerhard.lembke@rmg.de

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III. PRESSURE GAUGES

1. AN Instruments Pvt Ltd
2. Badotherm Process Instruments B.V.
3. Baumer Bourdon Haenni S.A.S
4. British Rototherm Co Ltd
5. Budenberg Gauge Co Ltd
6. Dresser Inc
7. Forbes Marshall (Hyd) Pvt Ltd
8. General Instrument Consortium
9. H. Guru Instruments (South India) Pvt Ltd
10. Manometer (India) Pvt Ltd
11. Nagano Keiki Seisakusho Ltd
12. Hirlekar Precision, India
13. Waaree Instruments Ltd
14. Walchandnagar Industries Ltd (Tiwac Divn)
15. Wika Alexander Wiegand & Co GmbH
16. Wika Instruments India Pvt Ltd
17. Ashcroft India Pvt Ltd.

IV. TEMPERATURE GAUGES

1. AN Instruments Pvt Ltd.
2. Badotherm Process Instruments B.V.
3. Bourdon Haenni S.A.
4. Dresser Inc.
5. General Instruments Consortium
6. H. Guru Instruments (South India) Pvt Ltd
7. Nagano Keiki Seisakusho Ltd
8. Solartron ISA

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-
9. Walchandnagar Industries Ltd (Tiwac Divn)
 10. Wika Alexander Wiegand & Co GmbH
 11. Wika Instruments India Pvt Ltd
 12. Pyro Electric, Goa
 13. Ashcroft India Pvt Ltd.

V. TEMPERATURE ELEMENTS, THERMO-WELLS

1. ABB Automation Ltd
2. Altop Industries Ltd
3. Bourdon Haenni S.A.
4. Detriv Instrumentation & Electronics Ltd
5. General Instruments Consortium
6. Japan Thermowell Co Ltd
7. Tecnomatic S.P.A
8. Tempsen Instrument India Ltd
9. Thermo Electric Co. Inc.
10. Thermo-Couple Products Co
11. Thermo-Electra B.V.
12. Wika Alexander Wiegand & Co GmbH
13. Altop Industries Ltd., Baroda
14. Nagman Sensors (Pvt.) Ltd.
15. Pyro Electric, Goa

VI. TURBINE METERS

1. Daniel (USA)
2. RMG (Germany)
3. Instromet International (Belgium)
4. Sensus Metering System Inc
5. Rockwin Flowmeter (India)
6. Vemmtec Messtechnik GmbH, (Germany)
7. ITRON GmbH (Germany)

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VII. POSITIVE DISPLACEMENT FLOW METERS

1. Actaris
2. RMG (Germany)
3. Instromet International (Belgium)
4. Romet
5. Dresser
6. Itron GmbH (Germany)

VIII. ORIFICES (METER RUN, FLOW CONDITIONER, ORIFICE PLATE AND ASSEMBLY)

1. Emerson
2. FMC, USA
3. Pietro Fiorentini S.P.A (Italy)
4. Canalta Controls, Canada

IX. ULTRASONIC FLOW METERS

1. Daniel (USA)
2. RMG (Germany)
3. Instromet International (Belgium)
4. Sick Maihak, Germany
5. FMC, Germany

X. LEVEL GAUGES/ LEVEL INSTRUMENTS

1. Bliss Anand
2. Chemtrols
3. V-Automat
4. Levcon
5. Nivo Controls
6. Sbeletro Mechanicals
7. TRAC

XI. FIELD INSTRUMENTS (P, DP, F, L, T)

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1. ABB Ltd
2. Honeywell
3. Fuji Electric Instruments Co Ltd
4. Yokogawa
5. Invensys India Pvt.Ltd

XII. FLOW COMPUTERS

1. Emerson
2. Instromet International (Belgium)
3. FMC Measurement Solutions (UK)
4. RMG (Germany)
5. OMNI Flow Computers Inc.
6. Thermo Fisher, USA

XIII. PRESSURE REGULATOR AND SLAM SHUT VALVE

1. Pietro Fiorentini S.P.A. (Italy)
2. Emerson
3. RMG-Regel Messtechnik (Germany)
4. Mokveld Valves BV (Netherlands)
5. Schlumberger (USA)
6. Gortter Controls B V (Netherlands)
7. Instromet International NV
8. Nirmal Industrial Controls Pvt Ltd. (up to 6" size only)
9. ESME Valves Ltd
10. Kaye & Macdonald Inc.
11. Nuovo Pignone S.P.A (Italy) (GE Oil Co.)
12. Richards Industries (Formerly Treloar)
13. Samson AG Mess-und Regeltechnik
14. Tormene Gas Technology
15. Dresser Inc, USA (upto 8" size, 300# class only)

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XIV. PRESSURE SAFETY VALVES

1. Keystone Valves (India) Pvt. Ltd.
2. Larson & Toubro Ltd.
3. Lesser GmbH & Co KG
4. Mekaster Engg Ltd..
5. Tyco Sanmar Ltd. (New Delhi)
6. Anderson Greenwood Crosby
7. BHEL (Trichy)
8. Curtiss Wright Flow Control Corporation
9. Dresser Inc.
10. Fukui Seisakusho Co. Ltd
11. Nakakita Seisakusho Co Ltd
12. Nuovo Pignone S.P.A (Italy) (GE Oil co)
13. Parcol S.P.A
14. Safety Systems UK Ltd
15. Tai Milano S.P.A
16. Weir Valves & Controls France
17. Bliss Anand Pvt Ltd.

XV. FLOW CONTROL VALVES

1. Fouress Engg. (New Delhi)
2. Fisher Xomox (New Delhi)
3. MIL Control Ltd. (Noida)
4. KOSO India Pvt Ltd
5. Samson Control (Thane)
6. Dresser Valves India Pvt Ltd.
7. Fisher Controls
8. Valvitalia Italy
9. CCI Valve technology
10. Flowserve Pvt Ltd.

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- 11. Metso Singapore Pvt Ltd.
- 12. Instrumentation Ltd Palghat
- 13. Dresser Inc. USA

XVI.

MOV actuator:

- 1. Rotork- UK, USA & INDIA
- 2. Limitorque
- 3. Auma- India
- 4. Biffi- Italy

XVII.

Pneumatic actuator (Solenoid Operated ON-OFF type)

- 1. Metso Automation
- 2. Tyco
- 3. Samson Controls
- 4. L&T
- 5. Emerson
- 6. Fisher
- 7. Masoneilan Process Control
- 8. Instrumentation Limited (IL)-Palghat
- 9. Micro Finish
- 10. Rotex

XVIII.

Solenoid Valves

- 1. Avcon
- 2. Festo

XIX.

Electro – Hydraulic Actuator

- 1. Avcon Rotork controls (Deutschland GmbH)
- 2. Biffi Italia Srl
- 3. Ledeen (Italy)
- 4. Virgo Valves and Controls Ltd.-India
- 5. Limitorque

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6. Reineke

7. Voith

XX. CONTROL PANEL & ACCESSORIES


1. Keltron Controls Ltd., Kerala
2. Elechmec Corporation Ltd., Mumbai
3. Industrial Controls & Appliances Pvt. Ltd.,
4. Alstom System Ltd., Noida
5. Emerson Process Management (I) Pvt. Ltd.
6. ABB Instruments Ltd., New Delhi
7. Larsen & Toubro Ltd.
8. Control & Automation, New Delhi
9. GE Fanuc Systems Pvt. Ltd., New Delhi
10. Rockwell Automation (I) Ltd., Ghaziabad
11. Honeywell Automation Ltd.
12. Rittal
13. Pyrotech Elcronics Pvt Ltd.
14. Positronics Pvt Ltd.
15. Electronics Corporation of India Ltd.

XXI. JUNCTION BOXES AND CABLES GLANDS

1. Ex-Protecta
2. Flameproof Control Gears
3. Baliga
4. Flexpro Electricals

XXII. CONTROL AND SIGNAL CABLES

1. Associated Cables
2. Brook
3. Associated Flexibles & Wires (Pvt) Ltd

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4. Universal Cables Ltd,India
5. Delton Cables Ltd, India
6. KEI Industries Ltd INDIA
7. CMI Limited
8. Cords Cable Industries Ltd, India
9. Elkay Telelinks (P) Ltd., India
10. Udey Pyrocables Pvt Ltd, India
11. Goyolene Fibres (I) Pvt Ltd, India
12. Netco Cable Industries Pvt Ltd, India
13. Nicco Corporation Ltd, India
14. Paramount Communications Ltd, India
15. Polycab Wires Pvt Ltd, India
16. Radiant Cables Pvt Ltd, India
17. Reliance Engineers Ltd., India
18. Suyog Electricals Ltd, India
19. Thermo Cables Ltd

XXIII. INDICATORS & CONTROLLERS

1. Yokogawa
2. Eurotherm Chessel
3. Honeywell
4. Emerson

XXIV. **BARRIERS**

1. MTL
2. STHAL
3. P&F
4. Phoenix

XXV. **GAS CHROMATOGRAPH**

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1. ABB
2. Emerson
3. Instromet International, NV
4. RMG Regal+Messtechnik GmbH
5. Yokogawa

XXVI. I/P CONVERTERS

1. ABB
2. Emerson
3. IMI Watson Smith Ltd.
4. Moore Controls Ltd
5. Shreyas Instruments Pvt Ltd, India
6. Thermo Brandt Instruments

XXVII. SS FITTINGS , INSTRUMENT VALVES & MANIFOLDS

1. Aura Inc.
2. Hoke
3. Excelsior Engg Works, India
4. Parker
5. Swagelok Co.
6. Swastic Engineering Works, India
7. Comfit & Valves Pvt.Ltd
8. Arya Crafts & Engg.Pvt. Ltd

XXVIII. SS TUBES

1. Sandvik
2. Hoke
3. Parker
4. Swagelok Co.
5. Heavy metal & tubes LTD
6. Nuclear Fuel Complex .India

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7. Ratnamani Metal & Tube Ltd

8. Jindal Saw

XXIX. GAS DETECTION SYSTEM

1. Crowcon Detection Instruments Ltd

2. Detection Instruments (I) Pvt Ltd

3. Detector Electronics Corporation

4. Drager Safety AG & Co. KGAA

5. General Monitors Ireland Ltd

6. Mine Safety Appliances Company

7. MSA – Mines Safety Appliances(India) Ltd

8. Industrial Scientific Oldham France S.A.

9. Riken Keiki Co Ltd

10. Simrad Optronics Icare

11. Honeywell Analytics

12. Net Safety Monitoring Inc.

13. Simtronics SAS



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LIST OF RECOMMENDED MANUFACTURERS

E. (SHOP & FIELD PAINTING)

I. Indian Vendors

1. Asian Paints(I) Ltd.
2. Berger Paints Ltd.
3. Goodlass Nerlolac Paints Ltd.
4. Jenson And Nicholson Paint Ltd & chokuGu Jenson & Nicholson Ltd.
5. Shalimar Paints Ltd.
6. Sigma Coating, Mumabai
7. CDC Carboline Ltd.
8. Premier Products Ltd.
9. Coromandel Paints & Chemicals Ltd.
10. Anupam Enterprises
11. Grand Polycoats
12. Bombay Paints Ltd.
13. Vanaprabha Esters & Glycer, Mumbai
14. Sunil Paints and Varnishes Pvt. Ltd.
15. Courtaulds Coating & Sealants India (Pvt.) Ltd.
16. Mark-chem Incorporated, Mumbai (for phosphating chemicals only)
17. VCM Polyurethane Paint (for polyurethane Paint only)

II. Foreign Vendors For Overseas Products


1. Sigma Coating, Singapore
2. Ameron, USA
3. Kansai Paint, Japan
4. Hempel Paint, USA
5. Valspar Corporation, USA
6. Courtaulds Coating, UK.

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Notes:

1. Bidder can select equipment of two different makes, selected from this VENDOR LIST and mention the same in the checklist for technical evaluation attached with the tender. The offered bid must include filled datasheet indicating make, model, size, rating of offered instrument/ equipment duly supported by sizing calculation of offered equipment (wherever applicable).
2. Vendors who have already supplied above equipment in other terminals of GAIL (I) Ltd, shall also be considered qualified for this tender provided the supplied equipment are commissioned and running successfully and they have not been put on holiday in list of Client/VCS/ Other PSU
3. Equipment / Instruments of any make which is offered by one bidder and acceptable to GAIL (I) Ltd shall be accepted for other bidder also. After placement of order, on request of the successful bidder list of other qualified makes for a particular item (for which successful bidder wants to change the vendor) shall be provided.
4. Bidder shall take prior approval of the make / model no of the offered item and it shall be from the list given above. However additional vendors will be considered in exceptional cases, provided they have supplied for similar application to reputed gas transmission/distribution companies, in quantities at least half the numbers being supplied for this tender, and working satisfactorily for minimum 6 months. Documentary evidence substantiating above shall be submitted for taking approval.
- 5 For procuring bought out items from vendors other than those listed above, the same may be acceptable subject to the following: -
 - a) The vendor/ supplier of bought out item(s) is a manufacturer/ supplier of said item(s) for intended services and the sizes being offered is in their regular manufacturing supply range.
 - b) Should have supplied at least one single random length (i.e. 5.5 meters to 6.5 meters) for item assorted pipes / tubes and for other items, which are to be supplied in quantity on number-basis (other than assorted pipes / tubes) minimum 01 (One) number of same or higher in terms of size and rating as required for intended services. The bidder should enclose documentary evidences i.e. PO copies, Inspection Certificate etc. for the above, along with their bids.
- 6 For any other item(s) for which the vendor list is not provided, bidders can supply those item(s) from vendors/ suppliers who have earlier supplied same item(s) for the intended services in earlier projects and the item(s) offered is in their regular manufacturing/ supply range. The bidder is not required to enclose documentary evidences (PO copies, Inspection Certificate etc.) along with their offer, however in case of successful bidder, these documents shall required to be submitted by them within 30 days from date of Placement of Order for approval to CLIENT / VCS.
- 7 The details of vendors indicated in this list are based on the information available with VCS, Contractor shall verify capabilities of each vendor for producing the required quantity with. PMC does not guarantee any responsibility on the performance of the

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vendor. It is the contractor's responsibility to verify the correct status of vendor and quality control of each parties and also to expedite the material in time.

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