

REQUEST FOR EXPRESSION OF INTEREST FOR THE PROVISION OF FLANGES(CS) FOR AGI PIPING
REFERENCE NO.: CPP-PROC-UG-006-0206-03

China Petroleum Pipeline Engineering Co., Ltd. (hereinafter abbreviated as CPP) as Pipeline, Feederline & Above Ground Installation Contractor for the East African Crude Oil Pipeline (EACOP) Project invites experienced and reputable Contractors to express their interest in supplying kinds of equipment/materials for EACOP Project.

The EACOP Project involves the development, construction, operation and maintenance of a crude oil export pipeline that originates in Kabaale, Uganda and delivers oil for marine export on the East African coast in the Tanga area in Tanzania.

BRIEF DESCRIPTION OF THE SCOPE:

♦ **Supply of flanges(CS) for AGI piping.**

MINIMUM REQUIREMENTS:

Companies expressing their interest are invited to document their request with:

- 1. Proof of License/Registration Information and Profile of Supplier, including license and TIN**

certificate.

- 2. Proof of registration with the PAU National Supplier Database (NSD) for Uganda.**
- 3. Fully filled Questionnaire, Key personnel list with CV(Appendix1)and Equipment list of production and inspection(Appendix2) in requested format. (Blank regards as unqualified item.)**
- 4. Similar supplying experience within last three years(Appendix3) in requested format.**
- 5. Compliance with the Petroleum Midstream National Content Regulation # 34,2016 for Uganda.**
- 6. Copy of certificates of ISO 9001, ISO 45001, ISO 14001 or equivalent of them.**
- 7. Tax Clearance Certificate for the last three years and Audit report for the last three years.**
- 8. The supplier must be manufacturer. Manufacturer's Commitment Letter shall be provided.**
- 9. Technical requirements shall meet NO.03-flanges(CS) for AGI piping.**

Interested companies which meet the minimum requirements and have the capacity to provide the WORK (GOODS/SERVICES) listed above should express their interest by sending together with the above listed documents an email to supplierdata@cpptz.com (Max. Email Size: 20 MBs, Wettransfer link is available for huge size documents. & All documents must be submitted in the English language) on or before **24:00** hours East African Time (EAT), on **DATE(23/2/2023)**. Subject of the email should be **"EOI for CPP-PROC-UG-006-0206-03-COMPANY NAME"**. CPP reserves the right not to consider companies that submit an incorrect email subject and the incorrect format of Questionnaire, Appendix 1, 2 and 3.

The format of the required documents and relevant technical requirements(NO.03-flanges(CS) for AGI piping) which are mentioned in Minimum Requirements should be downloaded from EACOP's website (<https://eacop.com/opportunities-by-main-construction-contractors/china-petroleum-pipeline-engineering-co-ltd/>).

Companies satisfactorily meeting the above minimum requirements will receive, subject to the signature of a Non-Disclosure Agreement (NDA), a detailed pre-qualification questionnaire for further evaluation by Company.

CPP reserves the right not to consider companies that submit an incomplete dossier.

Note 1: Only pre-qualified companies will receive an invitation to submit their bid in furtherance of the Call for Tender process.

Questionnaire for the Pre-qualification of Procurement-AGI PPL

NOTE: Please provide documents named by serial number according to each item.

CPP reserves the right not to consider companies that submit Questionnaire filled by hand.

Item No.	Category / Question	
0	NC/LC REQUIREMENTS	
0.1	General Requirements	
0.1.1	Is the Applicant fully aware of the local climatic and working conditions of country and the local applicable laws to carry out the project? (Yes or No)	
0.1.2	Applicant to confirm that the full Scope of the Project can be performed. (Yes or No)	
0.2	National Content Requirements for Uganda (Applicable for Uganda)	
0.2.1	Proof of business registration and business license for Uganda.	
0.2.2	Proof of registration with the PAU National Supplier Database (NSD) for Uganda.	
0.2.3	Compliance with the Petroleum Midstream National Content Regulation # 34,2016 for Uganda.	
0.3	Local Content Requirements for Tanzania (Applicable for Tanzania)	
0.3.1	Proof of business registration and business license for Tanzania.	
0.3.2	Proof of registration/application to EWURA Local Supplier Service Provider (LSSP) database.	
0.3.3	Compliance with Petroleum (Local Content) Regulations, 2017 and Local content requirements for Tanzania.	
1	GENERAL INFORMATION	
1.1	Company Data	
1.1.1	Name of Applicant	
1.1.2	Introduction of Applicant (establishing time,Copies of government issued IDs for all shareholders,main business scope,etc.)	
1.1.3	Applicant address	
1.1.4	Applicant phone number	
1.1.5	Applicant email address	
1.1.6	Applicant Website	

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Item No.	Category / Question	
1.1.7	* Manufacturer's Commitment Letter The supplier must be manufacturer.	
1.2	Authorized contact person and contact details	
1.2.1	Name of authorized contact person	
1.2.2	Contact person's business address - phone number	
1.2.3	Contact person's business address - mobile phone number	
1.2.4	Contact person's business address - email address	
1.3	Organization Chart	
1.3.1	Applicant is requested to attach its organization chart.	
1.4	Language	
1.4.1	English shall be used as the Project language for all documents and correspondence - applicant to confirm	
2	FINANCIAL ASPECTS	
2.1	Bank information	
2.1.1	Name of Applicant's principal bank	
2.1.2	Address of Applicant's principal bank - street and number	
2.1.3	Address of Applicant's principal bank - post code and city	
2.1.4	Address of Applicant's principal bank - country (and state)	
2.2	* Registration with the Tax Revenue Authority	
2.2.1	Registration with the Uganda Tax Revenue Authority, including TIN Certificate.(Applicable for Uganda)	
2.2.2	Registration with the Tanzania Tax Revenue Authority, including TIN Certificate.(Applicable for Tanzania)	
2.3	* Proof of Tax Clearance Certificate	
2.3.1	Proof of Uganda Tax Clearance Certificate for the latest 3 years available.(Applicable for Uganda)	

Questionnaire for the Pre-qualification of Procurement-AGI PPL

NOTE: Please provide documents named by serial number according to each item.

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Item No.	Category / Question	
2.3.2	Proof of Tanzania Tax Clearance Certificate for the latest 3 years available. (Applicable for Tanzania)	
2.4	Audited financial statements	
2.4.1	Applicant 's financial performance documents, Audited Balance sheets and Profit and Loss statements, Auditors Report and Notes to Accounts etc. for last 3 (three) years. Latest financial statement should not be older than 18 months on the date of submission of response to this Expression of Interest.	
2.5	Line of credit	
2.5.1	The line of credit shall not be less than USD 5 million, and the bid bond and performance bond shall only be issued by internationally renowned banks. (Yes or No)	
3	LITIGATION HISTORY, RISK ASSESSMENT AND ELIGIBILITY	
3.1	Litigation or arbitration history	
3.1.1	Provide information on any history of litigation or arbitration resulting from orders executed in the last (5) years or currently under execution, especially with CPP. (Yes or No)	
3.2	Eligibility	
3.2.1	Does Applicant appear on World Bank's common List of Ineligible Entities available under the following link http://www.worldbank.org/debarr or is Applicant subject to any sanction from World Bank and from UN? This must be similarly affirmed if the Applicant is an Affiliate or otherwise directly or indirectly controlled by such an ineligible entity. (Yes or No)	
4	QA/QC, HSE, CERTIFICATES, KEY PERSONNEL	
4.1	Please provide Applicant's ISO 9001:2015 Certificate.	
4.2	Please provide Applicant's ISO 45001:2018 Certificate (or equivalent).	
4.3	Please provide Applicant's ISO 14001:2015 Certificate (or equivalent).	
4.4	Please provide QA/QC manuals.	

Questionnaire for the Pre-qualification of Procurement-AGI PPL

NOTE: Please provide documents named by serial number according to each item.

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Item No.	Category / Question	
4.5	Any other technical Certificates (API, etc.).	
4.6	Please provide key personnel list, Format refer to Appendix 1.	
4.6.1	Please provide QA Manager's CV	
4.6.2	Please provide QC Inspector's CV	
4.6.3	Please provide Production Manager's CV	
5	FABRICATION AND DESIGN	
5.1	Range of products for oil and gas industry the applicant produces. (Yes or No)	
5.2	Please give details of your manufacturing and design/engineering facilities (size, area, number, etc.).	
5.3	Do you have in house design facilities? (Yes or No)	
5.4	Please provide details of the assembly yard/facilities you would use for the various parts of the project.	
5.5	Please provide the equipment list of production and inspection, Format refer to Appendix 2.	
5.6	*Technical requirements shall meet our relevant technical requirements documents attached. (Yes or No)	
6	PROJECT SPECIFIC OUTPUT, CAPACITY, ABILITY	
6.1	Please specify estimated average capacity per month for manufacturing and delivery of the product.	
6.2	What is the available capacity (i.e. not yet booked) of the Applicant for the product in Year 2023?	
6.3	According to your present workload what is the approximate time period (in weeks) for the first dispatch after purchase order award (on EXW basis)?	
7	EXPERIENCE RECORD AND REFERENCES	
7.1	Please provide similar experience within last three years, Format refer to Appendix 3.	
7.2	Please provide scanned CONTRACT for completed project or LETTER of AWARD for ongoing projects, completion certificate (if any), appreciation letters (if any) etc.	
7.3	Please confirm whether there have been any product quality incidents in the past 5 years. (Yes or No)	
8	RAW MATERIALS	

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NOTE: Please provide documents named by serial number according to each item.

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Item No.	Category / Question	
8.1	Please list the Sub-suppliers of raw materials (Company Name, Country).	
9	SPARE PARTS AND MAINTENANCE	
9.1	Supply list of recommend spare part for the product. (If applicable)	
10	DIVERSE DATA	
10.1	Please confirm that you will provide on-site Services such as provision of re-assembly, supervision of site acceptance, assistance during quality warranty period. (If applicable, Yes or No)	

APPENDIX 1 List of the Key Personnel

No.	Title	Name	Years of Experience	Qualification Certificates		Location	Notes
				Name of the Certificate	Certificate No.		

Notes: pls attach the CV & scanned copies of certificates etc.

APPENDIX 2 List of Main Equipment

No.	Name of Main Equipment	Brand & Model	Qty.	Status of Equipment	Self-owned (Y/N)	Location of Equipment	Date of Production	Notes

Notes: This format includes equipment of production and inspection, pls attach photos and self-owned certificate etc.

APPENDIX 3 List of Similar Supplying Experience in Oil and Gas Field

Client	Contact Information of Client (Email/Phone number)	Location	Years	Name of the Project	Scope of Supply	Status of the Project (Completed / Ongoing)	Bidder's Contract Value	Notes

- Notes:
- 1.Please attach following documents: scanned CONTRACT for completed project or LETTER of AWARD for ongoing projects, completion certificate (if any), appreciation letters (if any) etc.
 - 2.The information of the PROJECT mentioned above may be confirmed by CPP with the assistance of EACOP COMPANY.

SR.NO	LINE NO.	PIPE CLASS	SHORT CODE	COMMODITY CODE	SIZE1 (in)	SIZE2 (in)	DESCRIPTION	QTY	UNIT OF MEASURE	SUPPLY SCOPE	REMARKS
1	PR2-28-VT-VDC1100-N2	B03	FBLI	PFBC1B15RF00011	2"		BLIND FLG , CL150 , RF , B16.5CS A105N	1	Nos.	CONTRACTOR	VESSEL TRIM LINE NUMBER HOLD
2	PR2-28-VT-VDC1100-N2	B03	FLAN	PFWC1B15RFXST11	2"		WN FLG , CL150 , RF , XS , B16.5CS A105N	6	Nos.	CONTRACTOR	VESSEL TRIM LINE NUMBER HOLD
3	PR2-28-VDC1100-N7	B03	FBLI	PFBC1B15RF00011	4"		BLIND FLG , CL150 , RF , B16.5CS A105N	1	Nos.	CONTRACTOR	VESSEL TRIM LINE NUMBER HOLD
4	PR2-28-VDC1100-N7	B03	FLAN	PFWC1B15RFSTD11	4"		WN FLG , CL150 , RF , STD , B16.5CS A105N	2	Nos.	CONTRACTOR	VESSEL TRIM LINE NUMBER HOLD
5	PR2-25-VT-VP1100-N4	G06	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , RJ , CL1500 , ASME B16.5CS A105N	1	Nos.	CONTRACTOR	VESSEL TRIM LINE NUMBER HOLD
6	PR2-25-VT-VP1100-N4	G06	FLAN	PFWC1BK1RJXXS11	2"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	2	Nos.	CONTRACTOR	VESSEL TRIM LINE NUMBER HOLD
7	PR2-25-VT-VP1200-N4	G06	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , RJ , CL1500 , ASME B16.5CS A105N	1	Nos.	CONTRACTOR	VESSEL TRIM LINE NUMBER HOLD
8	PR2-25-VT-VP1200-N4	G06	FLAN	PFWC1BK1RJXXS11	2"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	2	Nos.	CONTRACTOR	VESSEL TRIM LINE NUMBER HOLD
9	PR2-05-3"-ATM-0001-B01	B01	FLAN	PFWC1B15RFSTD11	3"		WN FLG , CL150 , RF , STD , B16.5CS A105N	3	Nos.	CONTRACTOR	LINE SIZE HOLD
10	PR2-28-6"-ATM-0001-B01	B01	FLAN	PFWC1B15RFSTD11	6"		WN FLG , CL150 , RF , STD , B16.5CS A105N	3	Nos.	CONTRACTOR	LINE SIZE HOLD
11	PR2-05-6"-ATM-0002-B01	B01	FLAN	PFWC1B15RFSTD11	6"		WN FLG , CL150 , RF , STD , B16.5CS A105N	3	Nos.	CONTRACTOR	LINE SIZE HOLD
12	PR2-25-12"-HL-0027-G03HE	G03	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	1	Nos.	CONTRACTOR	
13	PR2-25-12"-HL-0027-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	1	Nos.	CONTRACTOR	

14	PR2-25-12"-HL-0027-G03HE	G03	FLAN	PFWC1B90RJ12011	8"		WN FLG , CL900 , RJ , SCH 120 , B16.5CS A105N	1	Nos.	CONTRACTOR	CONTROL VALVE SIZE HOLD
15	PR2-25-12"-HL-0027-G03HE	G03	FLAN	PFWC4G90RJ12011	12"		WN FLG , CL900 , RJ , SCH 120 , B16.5ITCS A350-LF2 CL.1	2	Nos.	CONTRACTOR	
16	PR2-28-2"-NG-0001-B03H	B03	FLAN	PFWC1B15RFXXS11	1.1/2"		WN FLG , CL150 , RF , XXS , B16.5CS A105N	1	Nos.	CONTRACTOR	
17	PR2-28-2"-NG-0001-B03H	B03	FLAN	PFWC1B15RFXST11	2"		WN FLG , CL150 , RF , XS , B16.5CS A105N	1	Nos.	CONTRACTOR	
18	PR2-25-2"-ATM-0001-B01	B01	FLAN	PFWC1BK1RJXST11	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	1	Nos.	CONTRACTOR	
19	PR2-05-2"-DO-0001-B01	B01	FBLI	PFBC1B15RF00011	2"		BLIND FLG , CL150 , RF , B16.5CS A105N	1	Nos.	CONTRACTOR	
20	PR2-05-2"-DO-0001-B01	B01	FLAN	PFWC1B15RFXST11	2"		WN FLG , CL150 , RF , XS , B16.5CS A105N	6	Nos.	CONTRACTOR	
21	PR2-05-2"-DO-0001-B01	B01	PCOM	PK8C7H15RF000K1	2"		FIG-8 BLANK , CL150 , RF , B16.48 , W/O ADD RAISED THKCS A516-70N	1	Nos.	CONTRACTOR	
22	PR2-28-3"-RD-0001-B03HE	B03	FLAN	PFWC1B15RFSTD11	3"		WN FLG , CL150 , RF , STD , B16.5CS A105N	1	Nos.	CONTRACTOR	LINE SIZE HOLD
23	PR2-25-4"-RD-0001-B03HE	B03	FBLI	PFBC1B15RF00011	1"		BLIND FLG , CL150 , RF , B16.5CS A105N	1	Nos.	CONTRACTOR	LINE SIZE HOLD
24	PR2-25-4"-RD-0001-B03HE	B03	FLAN	PFWC1B15RFSTD11	4"		WN FLG , CL150 , RF , STD , B16.5CS A105N	1	Nos.	CONTRACTOR	LINE SIZE HOLD
25	PR2-25-4"-RD-0001-B03HE	B03	FLAN	PFWC1BK1RJXST11	2"		WN FLG , CL1500 , RJ , XS , B16.5CS A105N	1	Nos.	CONTRACTOR	
26	PR2-25-4"-RD-0002-B03HE	B03	FBLI	PFBC1B15RF00011	1"		BLIND FLG , CL150 , RF , B16.5CS A105N	1	Nos.	CONTRACTOR	LINE SIZE HOLD
27	PR2-25-4"-RD-0002-B03HE	B03	FLAN	PFWC1B15RFSTD11	4"		WN FLG , CL150 , RF , STD , B16.5CS A105N	1	Nos.	CONTRACTOR	LINE SIZE HOLD

28	PR2-25-4"-RD-0002-B03HE	B03	FLAN	PFWC1BK1RJXST11	2"		WN FLG , CL1500 , RJ , XS , B16.5CS A105N	1	Nos.	CONTRACTOR	
29	PR2-28-6"-RD-0004-B03HE	B03	FBLI	PFBC1B15RF00011	6"		BLIND FLG , CL150 , RF , B16.5CS A105N	1	Nos.	CONTRACTOR	LINE SIZE HOLD
30	PR2-28-6"-RD-0004-B03HE	B03	FLAN	PFWC1B15RFSTD11	6"		WN FLG , CL150 , RF , STD , B16.5CS A105N	4	Nos.	CONTRACTOR	LINE SIZE HOLD
31	PR2-25-2"-HL-0024-G06HE	G06	FLAN	PFWC1BK1RJXXS11	2"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	3	Nos.	CONTRACTOR	
32	PR2-25-2"-HL-0009-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	3	Nos.	CONTRACTOR	
33	PR2-25-2"-HL-0023-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	3	Nos.	CONTRACTOR	
34	PR2-25-2"-HL-0022-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	3	Nos.	CONTRACTOR	
35	PR2-25-12"-HL-0012-G06HE	G06	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , RJ , CL1500 , ASME B16.5CS A105N	1	Nos.	CONTRACTOR	
36	PR2-25-12"-HL-0012-G06HE	G06	FLAN	PFWC4G90RJ14011	12"		WN FLG , CL900 , RJ , SCH 140 , B16.5ITCS A350-LF2 CL.1	5	Nos.	CONTRACTOR	
37	PR2-25-12"-HL-0012-G06HE	G06	PCOM	PKTC7H90RJ000D3	12"		PADDLE BLNK/SPCR SET , CL900 , RJ , B16.48 , FEMALE , 6MM CACS A516- 70N	1	Nos.	CONTRACTOR	
38	PR2-25-12"-HL-0004-G06HE	G06	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , RJ , CL1500 , ASME B16.5CS A105N	1	Nos.	CONTRACTOR	
39	PR2-25-12"-HL-0004-G06HE	G06	FLAN	PFWC4G90RJ14011	12"		WN FLG , CL900 , RJ , SCH 140 , B16.5ITCS A350-LF2 CL.1	5	Nos.	CONTRACTOR	
40	PR2-25-12"-HL-0004-G06HE	G06	PCOM	PKTC7H90RJ000D3	12"		PADDLE BLNK/SPCR SET , CL900 , RJ , B16.48 , FEMALE , 6MM CACS A516- 70N	1	Nos.	CONTRACTOR	
41	PR2-25-2"-HL-0019-G06HE	G06	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , RJ , CL1500 , ASME B16.5CS A105N	1	Nos.	CONTRACTOR	

42	PR2-25-2"-HL-0019-G06HE	G06	FLAN	PFWC1BK1RJXXS11	2"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	5	Nos.	CONTRACTOR	
43	PR2-25-2"-HL-0008-G03HE	G03	FBLI	PFBC1BK1RJ00011	1"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	1	Nos.	CONTRACTOR	
44	PR2-25-2"-HL-0008-G03HE	G03	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	1	Nos.	CONTRACTOR	
45	PR2-25-2"-HL-0008-G03HE	G03	FLAN	PFWC1BK1RJXXS11	1"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	1	Nos.	CONTRACTOR	
46	PR2-25-2"-HL-0008-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	3	Nos.	CONTRACTOR	
47	PR2-25-2"-HL-0007-G03HE	G03	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	1	Nos.	CONTRACTOR	LINE SIZE HOLD
48	PR2-25-2"-HL-0007-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	7	Nos.	CONTRACTOR	LINE SIZE HOLD
49	PR2-25-2"-HL-0017-G03HE	G03	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	1	Nos.	CONTRACTOR	LINE SIZE HOLD
50	PR2-25-2"-HL-0017-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	7	Nos.	CONTRACTOR	LINE SIZE HOLD
51	PR2-25-2"-HL-0006-G03HE	G03	FBLI	PFBC1BK1RJ00011	1"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	1	Nos.	CONTRACTOR	
52	PR2-25-2"-HL-0006-G03HE	G03	FLAN	PFWC1BK1RJXXS11	1"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	1	Nos.	CONTRACTOR	
53	PR2-25-2"-HL-0006-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	1	Nos.	CONTRACTOR	
54	PR2-25-2"-HL-0005-G03HE	G03	FBLI	PFBC1BK1RJ00011	1"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	1	Nos.	CONTRACTOR	
55	PR2-25-2"-HL-0005-G03HE	G03	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	1	Nos.	CONTRACTOR	

56	PR2-25-2"-HL-0005-G03HE	G03	FLAN	PFWC1BK1RJXXS11	1"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	1	Nos.	CONTRACTOR	
57	PR2-25-2"-HL-0005-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	4	Nos.	CONTRACTOR	
58	PR2-25-2"-HL-0014-G03HE	G03	FBLI	PFBC1BK1RJ00011	1"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	1	Nos.	CONTRACTOR	
59	PR2-25-2"-HL-0014-G03HE	G03	FLAN	PFWC1BK1RJXXS11	1"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	1	Nos.	CONTRACTOR	
60	PR2-25-2"-HL-0014-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	1	Nos.	CONTRACTOR	
61	PR2-25-2"-HL-0015-G03HE	G03	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	1	Nos.	CONTRACTOR	
62	PR2-25-2"-HL-0015-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	4	Nos.	CONTRACTOR	
63	PR2-25-2"-HL-0012-G06HE	G06	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , RJ , CL1500 , ASME B16.5CS A105N	1	Nos.	CONTRACTOR	
64	PR2-25-2"-HL-0012-G06HE	G06	FLAN	PFWC1BK1RJXXS11	2"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	5	Nos.	CONTRACTOR	
65	PR2-28-3"-HL-0012-G03HE	G03	FBLI	PFBC1BK1RJ00011	1"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	1	Nos.	CONTRACTOR	
66	PR2-28-3"-HL-0012-G03HE	G03	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	2	Nos.	CONTRACTOR	
67	PR2-28-3"-HL-0012-G03HE	G03	FLAN	PFWC1BK1RJXXS11	1"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	1	Nos.	CONTRACTOR	
68	PR2-28-3"-HL-0012-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	3	Nos.	CONTRACTOR	
69	PR2-28-3"-HL-0012-G03HE	G03	FLAN	PFWC1B90RJ16011	3"		WN FLG , CL900 , RJ , SCH 160 , B16.5CS A105N	7	Nos.	CONTRACTOR	

70	PR2-28-3"-HL-0006-D06HE	D06	FBLI	PFBC1B30RF00011	2"		BLIND FLG , CL300 , RF, B16.5CS A105N	2	Nos.	CONTRACTOR	
71	PR2-28-3"-HL-0006-D06HE	D06	FLAN	PFWC1B30RF16011	2"		WN FLG , CL300 , RF, SCH 160 , B16.5CS A105N	3	Nos.	CONTRACTOR	
72	PR2-28-3"-HL-0006-D06HE	D06	FLAN	PFWC1B30RF16011	3"		WN FLG , CL300 , RF, SCH 160 , B16.5CS A105N	5	Nos.	CONTRACTOR	PUMP OUTLET FLANGE HOLD 1 NOS.
73	PR2-28-3"-HL-0006-D06HE	D06	FLAN	PFWC1B90RJ16011	3"		WN FLG , CL900 , RJ , SCH 160 , B16.5 , CS A105N	1	Nos.	CONTRACTOR	
74	PR2-28-3"-HL-0002-D06HE	D06	FLAN	PFWC1B30RF16011	2"		WN FLG , CL300 , RF, SCH 160 , B16.5CS A105N	1	Nos.	CONTRACTOR	
75	PR2-28-3"-HL-0002-D06HE	D06	FLAN	PFWC1B30RF16011	3"		WN FLG , CL300 , RF, SCH 160 , B16.5CS A105N	8	Nos.	CONTRACTOR	
76	PR2-28-3"-HL-0002-B06HE	B06	FBLI	PFBC1B15RF00011	2"		BLIND FLG , CL150 , RF , B16.5CS A105N	1	Nos.	CONTRACTOR	
77	PR2-28-3"-HL-0002-B06HE	B06	FLAN	PFWC1B15RF16011	2"		WN FLG , CL150 , RF, SCH 160 , B16.5CS A105N	2	Nos.	CONTRACTOR	
78	PR2-28-3"-HL-0002-B06HE	B06	FLAN	PFWC1B15RF16011	3"		WN FLG , CL150 , RF, SCH 160 , B16.5CS A105N	5	Nos.	CONTRACTOR	PUMP OUTLET FLANGE HOLD 1 NOS.
79	PR2-28-3"-HL-0002-B06HE	B06	FLAN	PFWC1B30RF16011	3"		WN FLG , CL300 , RF, SCH 160 , B16.5CS A105N	1	Nos.	CONTRACTOR	
80	PR2-25-2"-HL-0016-G03HE	G03	FBLI	PFBC1BK1RJ00011	1"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	1	Nos.	CONTRACTOR	
81	PR2-25-2"-HL-0016-G03HE	G03	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	1	Nos.	CONTRACTOR	
82	PR2-25-2"-HL-0016-G03HE	G03	FLAN	PFWC1BK1RJXXS11	1"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	1	Nos.	CONTRACTOR	
83	PR2-25-2"-HL-0016-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	3	Nos.	CONTRACTOR	

84	PR2-28-2"-HL-0013-B06HE	B06	FBLI	PFBC1B15RF00011	2"		BLIND FLG , CL150 , RF , B16.5CS A105N	1	Nos.	CONTRACTOR	
85	PR2-28-2"-HL-0013-B06HE	B06	FLAN	PFWC1B15RF16011	2"		WN FLG , CL150 , RF , SCH 160 , B16.5CS A105N	6	Nos.	CONTRACTOR	
86	PR2-28-2"-HL-0013-B06HE	B06	PCOM	PK8C7H15RF000RY	2"		FIG-8 BLANK , CL150 , RF , B16.48 , W/O ADD RAISED THK , 6MM CACS A516- 70N	1	Nos.	CONTRACTOR	
87	PR2-25-20"-HL-0011-G03HE	G03	FBLI	PFBC1BK1RJ00011	1"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	3	Nos.	CONTRACTOR	
88	PR2-25-20"-HL-0011-G03HE	G03	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	2	Nos.	CONTRACTOR	
89	PR2-25-20"-HL-0011-G03HE	G03	FLAN	PFWC1BK1RJXXS11	1"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	1	Nos.	CONTRACTOR	
90	PR2-25-20"-HL-0011-G03HE	G03	FLAN	PFWC1BK1RJXXS11	1.1/2"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	1	Nos.	CONTRACTOR	
91	PR2-25-20"-HL-0011-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	7	Nos.	CONTRACTOR	
92	PR2-25-20"-HL-0011-G03HE	G03	FLAN	PFWC1B90RJ12011	8"		WN FLG , CL900 , RJ , SCH 120 , B16.5CS A105N	1	Nos.	CONTRACTOR	CONTROL VALVE SIZE HOLD
93	PR2-25-20"-HL-0011-G03HE	G03	FLAN	PFWC4G90RJ12011	12"		WN FLG , CL900 , RJ , SCH 120 , B16.5ITCS A350- LF2 CL.1	2	Nos.	CONTRACTOR	
94	PR2-25-20"-HL-0011-G03HE	G03	FLAN	PFWCO790RJ10036	20"		WN FLG , CL900 , RJ , SCH 100 , B16.5 , CVN @ -29C (- 20F) CS A694-F60	1	Nos.	CONTRACTOR	
95	PR2-25-20"-HL-0011-G03HE	G03	PCOM	PKTC7H90RJ000KF	20"		PADDLE BLNK/SPCR SET , CL900 , RJ , B16.48 , FEMALECS A516-70N	1	Nos.	CONTRACTOR	
96	PR2-25-20"-HL-0002-G03HE	G03	FBLI	PFBC1BK1RJ00011	1"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	3	Nos.	CONTRACTOR	
97	PR2-25-20"-HL-0002-G03HE	G03	FLAN	PFWC1BK1RJXXS11	1"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	1	Nos.	CONTRACTOR	

98	PR2-25-20"-HL-0002-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	5	Nos.	CONTRACTOR	
99	PR2-25-20"-HL-0002-G03HE	G03	FLAN	PFWCO790RJ10036	20"		WN FLG , CL900 , RJ , SCH 100 , B16.5 , CVN @ -29C (-20F) CS A694-F60	1	Nos.	CONTRACTOR	
100	PR2-25-20"-HL-0002-G03HE	G03	PCOM	PKTC7H90RJ000KF	20"		PADDLE BLNK/SPCR SET , CL900 , RJ , B16.48 , FEMALECS A516-70N	1	Nos.	CONTRACTOR	
101	PR2-25-12"-HL-0026-G03HE	G03	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	1	Nos.	CONTRACTOR	
102	PR2-25-12"-HL-0026-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	1	Nos.	CONTRACTOR	
103	PR2-25-12"-HL-0026-G03HE	G03	FLAN	PFWC1B90RJ12011	8"		WN FLG , CL900 , RJ , SCH 120 , B16.5CS A105N	1	Nos.	CONTRACTOR	CONTROL VALVE SIZE HOLD
104	PR2-25-12"-HL-0026-G03HE	G03	FLAN	PFWC4G90RJ12011	12"		WN FLG , CL900 , RJ , SCH 120 , B16.5ITCS A350-LF2 CL.1	2	Nos.	CONTRACTOR	
105	PR2-25-12"-HL-0029-G03HE	G03	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	2	Nos.	CONTRACTOR	
106	PR2-25-12"-HL-0029-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	2	Nos.	CONTRACTOR	
107	PR2-25-12"-HL-0029-G03HE	G03	FLAN	PFWC1B90RJ12011	8"		WN FLG , CL900 , RJ , SCH 120 , B16.5CS A105N	1	Nos.	CONTRACTOR	CONTROL VALVE SIZE HOLD
108	PR2-25-12"-HL-0029-G03HE	G03	FLAN	PFWC4G90RJ12011	12"		WN FLG , CL900 , RJ , SCH 120 , B16.5ITCS A350-LF2 CL.1	2	Nos.	CONTRACTOR	
109	PR2-25-4"-CD-0012-G06HE	G06	FLAN	PFWC1B90RJXXS11	4"		WN FLG , CL900 , RJ , XXS , B16.5CS A105N	1	Nos.	CONTRACTOR	
110	PR2-25-2"-CD-0002-B06HE	B06	FLAN	PFWC1B15RF16011	2"		WN FLG , CL150 , RF , SCH 160 , B16.5CS A105N	10	Nos.	CONTRACTOR	SAMPLE CONNECTION HOLD
111	PR2-25-4"-CD-0001-G06HE	G06	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , RJ , CL1500 , ASME B16.5CS A105N	1	Nos.	CONTRACTOR	

112	PR2-25-4"-CD-0001-G06HE	G06	FLAN	PFWC1BK1RJXXS11	2"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	1	Nos.	CONTRACTOR	
113	PR2-25-4"-CD-0001-G06HE	G06	FLAN	PFWC1B90RJXXS11	4"		WN FLG , CL900 , RJ , XXS , B16.5CS A105N	6	Nos.	CONTRACTOR	
114	PR2-25-4"-CD-0001-G06HE	G06	PCOM	PK8C7H90RJ000D3	4"		FIG-8 BLANK , CL900 , RJ , B16.48 , FEMALECS A516-70N	1	Nos.	CONTRACTOR	
115	PR2-25-2"-CD-0011-G06HE	G06	FLAN	PFWC1BK1RJXXS11	2"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	2	Nos.	CONTRACTOR	
116	PR2-25-2"-CD-0010-G06HE	G06	FLAN	PFWC1BK1RJXXS11	2"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	2	Nos.	CONTRACTOR	
117	PR2-25-4"-CD-0003-B06HE	B06	FLAN	PFWC1B90RJ12011	4"		WN FLG , CL900 , RJ , SCH 120 , B16.5CS A105N	1	Nos.	CONTRACTOR	
118	PR2-25-4"-CD-0008-G06HE	G06	FLAN	PFWC1B90RJXXS11	4"		WN FLG , CL900 , RJ , XXS , B16.5CS A105N	1	Nos.	CONTRACTOR	
119	PR2-25-4"-CD-0006-G06HE	G06	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG, RJ, CL1500, ASME B16.5CS A105N	1	Nos.	CONTRACTOR	
120	PR2-25-4"-CD-0006-G06HE	G06	FLAN	PFWC1BK1RJXXS11	2"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	1	Nos.	CONTRACTOR	
121	PR2-25-4"-CD-0006-G06HE	G06	FLAN	PFWC1B90RJXXS11	4"		WN FLG , CL900 , RJ , XXS , B16.5CS A105N	6	Nos.	CONTRACTOR	
122	PR2-25-4"-CD-0006-G06HE	G06	PCOM	PK8C7H90RJ000D3	4"		FIG-8 BLANK , CL900 , RJ , B16.48 , FEMALECS A516-70N	1	Nos.	CONTRACTOR	
123	PR2-25-2"-CD-0013-G06HE	G06	FLAN	PFWC1BK1RJXXS11	2"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	2	Nos.	CONTRACTOR	
124	PR2-25-2"-CD-0014-G06HE	G06	FLAN	PFWC1BK1RJXXS11	2"		WN FLG , CL1500 , RJ , XXS , B16.5CS A105N	2	Nos.	CONTRACTOR	
125	PR2-25-4"-CD-0007-B06HE	B06	FLAN	PFWC1BK1RJ12011	4"		WN FLG , CL1500 , RJ , SCH 120 , B16.5CS A105N	1	Nos.	CONTRACTOR	

126	PR2-28-6"-CD-0003-B06HE	B06	FBLI	PFBC1B15RF00011	6"		BLIND FLG , CL150 , RF , B16.5CS A105N	3	Nos.	CONTRACTOR	
127	PR2-28-6"-CD-0003-B06HE	B06	FLAN	PFWC1B15RFXST11	6"		WN FLG , CL150 , RF , XS , B16.5CS A105N	4	Nos.	CONTRACTOR	
128	PR2-28-6"-CD-0003-B06HE	B06	PCOM	PK8C7H15RF000RY	6"		FIG-8 BLANK , CL150 , RF , B16.48 , W/O ADD RAISED THK , 6MM CACS A516- 70N	1	Nos.	CONTRACTOR	
129	PR2-25-2"-ATM-0002-B01	B01	FLAN	PFWC1BK1RJXST11	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	1	Nos.	CONTRACTOR	
130	PR2-25-12"-HL-0028-G03HE	G03	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	1	Nos.	CONTRACTOR	
131	PR2-25-12"-HL-0028-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	1	Nos.	CONTRACTOR	
132	PR2-25-12"-HL-0028-G03HE	G03	FLAN	PFWC1B90RJ12011	8"		WN FLG , CL900 , RJ , SCH 120 , B16.5CS A105N	1	Nos.	CONTRACTOR	CONTROL VALVE SIZE HOLD
133	PR2-25-12"-HL-0028-G03HE	G03	FLAN	PFWC4G90RJ12011	12"		WN FLG , CL900 , RJ , SCH 120 , B16.5ITCS A350- LF2 CL.1	2	Nos.	CONTRACTOR	
134	PR2-25-12"-HL-0025-G03HE	G03	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	1	Nos.	CONTRACTOR	
135	PR2-25-12"-HL-0025-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	1	Nos.	CONTRACTOR	
136	PR2-25-12"-HL-0025-G03HE	G03	FLAN	PFWC1B90RJ12011	8"		WN FLG , CL900 , RJ , SCH 120 , B16.5CS A105N	1	Nos.	CONTRACTOR	CONTROL VALVE SIZE HOLD
137	PR2-25-12"-HL-0025-G03HE	G03	FLAN	PFWC4G90RJ12011	12"		WN FLG , CL900 , RJ , SCH 120 , B16.5ITCS A350- LF2 CL.1	2	Nos.	CONTRACTOR	
138	PR2-25-12"-HL-0030-G03HE	G03	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	2	Nos.	CONTRACTOR	
139	PR2-25-12"-HL-0030-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	2	Nos.	CONTRACTOR	

140	PR2-25-12"-HL-0030-G03HE	G03	FLAN	PFWC1B90RJ12011	8"		WN FLG , CL900 , RJ, SCH 120 , B16.5CS A105N	1	Nos.	CONTRACTOR	CONTROL VALVE SIZE HOLD
141	PR2-25-12"-HL-0030-G03HE	G03	FLAN	PFWC4G90RJ12011	12"		WN FLG , CL900 , RJ, SCH 120 , B16.5ITCS A350-LF2 CL.1	2	Nos.	CONTRACTOR	
142	PR2-25-12"-HL-0031-G03HE	G03	FBLI	PFBC1BK1RJ00011	2"		BLIND FLG , CL1500 , RJ , B16.5CS A105N	2	Nos.	CONTRACTOR	
143	PR2-25-12"-HL-0031-G03HE	G03	FLAN	PFWC1BK1RJ16011	2"		WN FLG , CL1500 , RJ , SCH 160 , B16.5CS A105N	2	Nos.	CONTRACTOR	
144	PR2-25-12"-HL-0031-G03HE	G03	FLAN	PFWC1B90RJ12011	8"		WN FLG , CL900 , RJ, SCH 120 , B16.5CS A105N	1	Nos.	CONTRACTOR	CONTROL VALVE SIZE HOLD
145	PR2-25-12"-HL-0031-G03HE	G03	FLAN	PFWC4G90RJ12011	12"		WN FLG , CL900 , RJ, SCH 120 , B16.5ITCS A350-LF2 CL.1	2	Nos.	CONTRACTOR	
146	PR2-28-2"-NG-0001-B03HE	B03	FBLI	PFBC1B15RF00011	2"		BLIND FLG , CL150 , RF , B16.5CS A105N	1	Nos.	CONTRACTOR	
147	PR2-28-2"-NG-0001-B03HE	B03	FLAN	PFWC1B15RFXST11	2"		WN FLG , CL150 , RF, XS , B16.5CS A105N	4	Nos.	CONTRACTOR	
148	PR2-25-VP-1100_DRAIN	B01	FBLI	PFBC1B15RF00011	2"		BLIND FLG , CL150 , RF , B16.5CS A105N	1	Nos.	CONTRACTOR	
149	PR2-25-VP-1100_DRAIN	B01	FLAN	PFWC1B15RFXST11	2"		WN FLG , CL150 , RF, XS , B16.5CS A105N	1	Nos.	CONTRACTOR	
150	PR2-25-VP-1200_DRAIN	B01	FBLI	PFBC1B15RF00011	2"		BLIND FLG , CL150 , RF , B16.5CS A105N	1	Nos.	CONTRACTOR	
151	PR2-25-VP-1200_DRAIN	B01	FLAN	PFWC1B15RFXST11	2"		WN FLG , CL150 , RF, XS , B16.5CS A105N	1	Nos.	CONTRACTOR	
152	PR2-28-PR-3200_DRAIN	B01	FBLI	PFBC1B15RF00011	2"		BLIND FLG , CL150 , RF , B16.5CS A105N	1	Nos.	CONTRACTOR	
153	PR2-28-PR-3200_DRAIN	B01	FLAN	PFWC1B15RFXST11	2"		WN FLG , CL150 , RF, XS , B16.5CS A105N	1	Nos.	CONTRACTOR	

154	PR2-05-UR-8100_DRAIN	B01	FBLI	PFBC1B15RF00011	2"		BLIND FLG , CL150 , RF , B16.5CS A105N	1	Nos.	CONTRACTOR	
155	PR2-05-UR-8100_DRAIN	B01	FLAN	PFWC1B15RFXST11	2"		WN FLG , CL150 , RF , XS , B16.5CS A105N	1	Nos.	CONTRACTOR	