

## RATE CONTRACT FOR PIPING

## A . Piping Fabrication and Erection

Description	Total - IND	Unit	Shop Rate	Field Joint Rate
CS — 2" below	805.6	IND	225	248
CS -> 2" -- THK < 10	7102	IND	225	248
CS -> 2" —10 <= THK < 15	371	IND	238	262
CS -> 2" —15 <= THK < 20		IND	252	276
CS -> 2" —20 <= THK < 25		IND	276	300
CS -> 2" —25 <= THK < 30		IND	286	310
LTCS— 2" below	1537	IND	225	248
LTCS - >2" —THK <10	27772	IND	225	248
LTCS - >2" —10 <= THK < 15	7165.6	IND	238	262
LTCS - >2" —15 <= THK < 20	4091.6	IND	253	276
LTCS - >2" —20 <= THK < 25	2247.2	IND	277	300
LTCS - >2" —25 <= THK < 30	159	IND	286	310
LTCS - >2" —30 <= THK < 40	2300.2	IND	305	329
Duplex — 2" below	30	IND	296	319
Duplex->2" - THK< 10	2300	IND	296	319
Duplex->2" -10 <=2 THK < 15	150	IND	390	343
Duplex->2" -15 <=2 THK < 20		IND	390	343
Duplex->2" -20<=2 THK < 25	50	IND	343	367

Duplex->2" -25 <=2 THK < 30		IND	343	367
304 2" below	441	IND	286	310
304 ->2" -THK < 10	9576	IND	286	310
304 ->2" -10 <=2 THK < 15	945	IND	310	334
304 ->2" -15 <=2 THK < 20	2961	IND	310	334
304 ->2" -20 <=2 THK < 25	567	IND	334	358
304 ->2" -25 <=2 THK < 30	6.3	IND	371	358
316- 2" below	94.5	IND	318	310
316->2" -THK< 10	2394	IND	371	358
316->2" -10 <=THK< 15	630	IND	345	381
316->2" -15 <=THK< 20	1764	IND	345	381
316->2" -20 <=THK< 25	3.78	IND	371	405
316->2" -25 <=THK< 30	346.5	IND	371	405
Description	Total - IND	Unit	Shop Rate	Field Joint Rate
P11 - 2" below	105	IND	334	358
P11->2" -THK < 10	997.5	IND	353	377
P11-> 2" -10 <= THK < 15	918.75	IND	371	396
P11->2" -15<= THK < 20	2100	IND	391	
P11->2" -20 <= THK < 25	3097.5	IND	410	434
P11->2" -25 <=THK < 30	15.75	IND	429	453
P11 - >2" - 30 <= THK < 40	745.5	IND	448	472
P22- 2" below	210	IND	334	358
P22 ->2" - THK < 10	73.5	IND	353	377
P22 ->2" - 10<= THK < 15	262.5	IND	372	396
P22 ->2" - 15<= THK < 20	262.5	IND	391	
P22 ->2" - 20<= THK < 25	1050	IND	410	434

P22 ->2" – 25<= THK < 30	2152.5	IND	430	453
P22 ->2" – 30<= THK < 40	787.5	IND	448	472
Incoloy -->2" —THK <10	5	IND	358	381
Incoloy -->2"-10 <= THK <15	1575	IND	406	429
Incoloy -->2"-15 <= THK <20		IND	429	453
Incoloy -->2"-20 <= THK <25		IND	429	453
Incoloy -->2"-25 <= THK <30		IND	453	477

pipe/Spool - CS/AS/SS — Spool Erection with support, Blanking, hydro test, flushing, cleaning	145000	INM		160
Flanged Manual Valve-Sizes Upto1.5 inch-#All Class	200	NOS	0	270
Flanged Manual Valve-Size 2 Inch to 6 Inch-#All Class	497	NOS		860
Flanged Manual Valve-Above 6 Inch to 12 Inch-#All Class	303	NOS		2470
Flanged Manual Valve-Above 12 Inch to 18 Inch-#All Class	77	NOS	0	4180
Flanged Manual Valve-Above 18 Inch to 24 Inch-#All Class	63	NOS		6370
Flanged Manual Valve-Above 24 Inch to 30 Inch-#All Class	42	NOS		7340
Flanged Manual Valve-Above 30 -#All Class	9	NOS	0	11450
Safety / Relief Valves-Sizes Upto1.5 inch-#All Class	3	NOS	0	225
Safety / Relief Valves-Size 2 Inch to 6 Inch-#150 #600	25	NOS		815
Safety / Relief Valves-Size 2 Inch to 6 Inch->#600		NOS		815

Description	Total - IND	Unit	Shop Rate	Field Joint Rate
Safety / Relief Valves-Above 6 Inch to 12 Inch-#150 #600	1	NOS	0	1600
Safety / Relief Valves-Above 6 Inch to 12 Inch->#600		NOS		1600
Safety / Relief Valves-Above 12 Inch to 18 Inch-#150 - #600	2	NOS	0	2400
Safety / Relief Valves-Above 12 Inch to 18 Inch-		NOS		2400
Safety / Relief Valves-Above 18 Inch to 24 Inch-#150 - #600		NOS	0	3185
Safety / Relief Valves-Above 18 Inch to 24 Inch-		NOS		3185

Safety / Relief Valves-Above 24 Inch to 30 Inch-#150 - #600		NOS		3975
Safety / Relief Valves-Above 24 Inch to 30 Inch-		NOS		3975

Manual Valve-Sizes Upto1.5 inch-#All Class	1211	NOS	0	225
Manual Valve-Size 2 Inch to 6 Inch-#150 - #600	277	NOS		815
Manual Valve-Size 2 Inch to 6 Inch->#600	161	NOS		815
Manual Valve-Above 6 Inch to 12 Inch-#150 - #600	87	NOS		1605
Manual Valve-Above 6 Inch to 12 Inch->#600	50	NOS		1605
Manual Valve-Above 12 Inch to 18 Inch-#150 - #600	13	NOS		2400
Manual Valve-Above 12 Inch to 18 Inch->#600	12	NOS	0	2400
Manual Valve-Above 18 Inch to 24 Inch-#150 - #600	21	NOS		3185
Manual Valve-Above 18 Inch to 24 Inch->#600		NOS	0	3185
Manual Valve-Above 24 Inch to 30 Inch-#150 - #600	5	NOS	0	3980
Manual Valve-Above 24 Inch to 30 Inch->#600		NOS		3980
Manual Valve-Above 30 Inch-#150 - #600	3	NOS	0	5290
Manual Valve-Above 30 Inch->#600		NOS		5290
Control Valve-Sizes Upto1.5 inch-#All Class	12	NOS		225
Control Valve-Size 2 Inch to 6 Inch-#150 - #600	34	NOS	0	815
Control Valve-Size 2 Inch to 6 Inch->#600	23	NOS	0	815
Control Valve-Above 6 Inch to 12 Inch-#150 - #600	18	NOS		1605
Control Valve-Above 6 Inch to 12 Inch->#600	4	NOS		1605
Control Valve-Above 12 Inch to 18 Inch-#150 - #600	5	NOS		2400
Control Valve-Above 12 Inch to 18 Inch->#600	2	NOS	0	2400
Control Valve-Above 18 Inch to 24 Inch-#150 - #600	2	NOS		3185
Control Valve-Above 18 Inch to 24 Inch->#600		NOS		3185
Description	Total - IND	Unit	Shop Rate	Field Joint Rate
Control Valve-Above 24 Inch to 30 Inch-#150 - #600	1	NOS		3980
Control Valve-Above 24 Inch to 30 Inch->#600		NOS		3980
Speciality Item (Orifice, Spectacle Blind, Spacer, Bellows etc.)-Sizes Upto1.5 inch-#All Class	58	NOS	0	225
Speciality Item (Orifice, Spectacle Blind, Spacer, Bellows etc.)-Size 2 Inch to 6 Inch-#150 - #600	40	NOS		815
Speciality Item (Orifice, Spectacle Blind, Spacer, Bellows etc.)-Size 2 Inch to 6 Inch->#600	10	NOS		815
Speciality Item (Orifice, Spectacle Blind, Spacer, Bellows etc.)-Above 6 Inch to 12 Inch-#150 - #600	25	NOS		1605
Speciality Item (Orifice, Spectacle Blind, Spacer, Bellows etc.)-Above 6 Inch to 12 Inch->#600	1	NOS		1605
Speciality Item (Orifice, Spectacle Blind, Spacer, Bellows etc.)-Above 12 Inch to 18 Inch-#150 - #600	9	NOS		2400
Speciality Item (Orifice, Spectacle Blind, Spacer, Bellows etc.)-Above 12 Inch to 18 Inch->#600	1	NOS		2400

Speciality Item (Orifice, Spectacle Blind, Spacer, Bellows etc.)-Above 18 Inch to 24 Inch-#150 - #600	13	NOS		3185
Speciality Item (Orifice, Spectacle Blind, Spacer, Bellows etc.)-Above 18 Inch to 24 Inch->#600	1	NOS	0	3185
Speciality Item (Orifice, Spectacle Blind, Spacer, Bellows etc.)-Above 24 Inch to 30 Inch-#150 - #600	1	NOS		3980
Speciality Item (Orifice, Spectacle Blind, Spacer, Bellows etc.)-Above 24 Inch to 30 Inch->#600		NOS		3980
Speciality Item (Orifice, Spectacle Blind, Spacer, Bellows etc.)-Above 30 Inch to 36 Inch-#150 - #600	0	NOS		4770
Speciality Item (Orifice, Spectacle Blind, Spacer, Bellows etc.)-Above 30 Inch to 36 Inch->#600		NOS		4770
RF Pad Welding up to 6 mm THK plate Size		MTR	600	600
RF Pad Welding above 6mm THK plate size		MTR	800	800

**NOTE:-**

1. For Outlet/ Weldolet / Socolet Connection unit rate shall be 1.75 times of applicable inch dia rate for branch pipe dia and wall thickness. For Outlet/Weldolet/Socolet Connection Up to 4 inch with thickness more than 20mm, then unit rate of respective thickness mentioned in above 4 inch pipe size is applicable.
2. For socket Joint unit rate shall be 0.5 times of applicable inch dia rare of the pipe size and thickness.
3. For Threaded joint unit rate shall be 0.4 times of applicable inch pipe size Is and thickness.

**Major Contractor Scope:**

1. Skill /Unskilled manpower for completion of work
2. Providing qualified engineers
3. Mobilization and Demobilization of Manpower, Accommodation, food
4. Mechanical and electrical maintenance personnel
5. All machineries/tools tackles for completion of work
6. Portable welding Oven, Magnetic Drill Machine, Drill bit, Cutter, etc.
7. Standard PPE's (Safety belts, boiler suits, safety shoes, safety helmets, safety goggles, ear plug, hand gloves)
8. Scaffolders
9. DPT will be carried out by contractor approved workman
10. Office container, tools, and tackles storage container

**BICPL Scope:**

1. Welding consumable, DPT material, cotton waste, Gas and Gouging electrodes
2. Hydra/Crane, Forklift, Rolling, Machining, Scaffolding material.
3. Grinding Wheel, Cutting Wheel, buffing wheel, etc.
4. Space, Drinking facility, utility facility.
5. NDT ( UT/RT/MPT)

**NOTE :**

1. PED Welder qualification required, if qualified welder will get de-mob with any reason before 3 months BICPL Will back charge qualification charges 10,000 Rs/Welder to contractor.
2. Subcontracting on any activity is strictly banned; BICPL clearance is required in this scenario. Failure to follow the rules may result in the contract being cancelled without commercial reconciliation.
3. If BICPL is not satisfied with the performance and/or conduct of the employee(s) of the contractor, the employee(s) in question shall immediately be replaced by suitable person to ensure smooth and effective operational.

4. Demobilization of manpower and resources shall be carried out after work completion and written approval from the BICPL Shop—in charge.

#### COMPLIANCE TO REQUIREMENTS:

- i. Service provider must ensure competent manpower for the job execution, through a proper competency process by Safety, HR, and Technical before induction of their employees in strict compliance to gate passes processes in place.
- ii. All the documents are to be submitted either in soft copy or hard copy or both as asked, for getting HR clearance.
- iii. The contractor is responsible for All legal & statutory requirements as per Government policy.
- iv. The contractor must adhere closely to the state government's minimum wage regulations.
- v. Statutory variation in taxes & and duties and/or imposition of any new tax/duty after the effective date of this contract shall be in contractor scope.
- vi. The monthly statement and Challan of EPFO and ESIC must be shared with BICPL monthly.
- vii. The contractor shall bear full responsibility for any liability resulting from failure to comply with statutory regulations. The contractor is responsible for compensating BICPL for any non-compliance incidents.
- viii. The contractors are required to abide by the safety rules, company culture, and policies of BICPL.
- ix. In accordance with labour laws and statutory rules and regulations, the contractor is obligated to provide all amenities for the employees, including accommodation, transportation, food and medical care.

#### CONFIDENTIALITY:

1. All documents/data/specifications/standards handed over to the contractor or their representatives shall be the sole property of BICPL. The contractor shall treat the same as strictly CONFIDENTIAL. The contractor shall not divulge any drawings/documents/instructions, either in part or full without written permission of BICPL.

#### CONFLICT IN REQUIREMENTS SPECIFIED IN DIFFERENT DOCUMENTS:

If there is a discrepancy in the instructions contained in the Drawing/Specification/Contract documents, the contractor must promptly notify BICPL and request a resolution. The Contractor is not free to assume which instruction will take precedence. In all circumstances, BICPL's decision is final.

#### Work Location:

- Pre Fabrication - Unit 1/Unit 2 PRA] INDUSTRIES LIMITED, GANDHIDHAM/ NEAR KANDLA PORT OPEN YARD.
- FINAL ASSEMBLY- NEAR KANDLA PORT OPEN YARD.

#### GENERAL SCOPE:

1. The contractor will assign manpower during every shift to clean the unit's working space and remove unwanted materials that aren't needed for a safe and efficient completion of the manufacturing.
2. All Welding machines shall be Water Cooled HF inverter base, calibrated, and require AMP display. BICPL will calibrate the same before use.
3. Sufficient number of GTAW, SMAW, SAW Welder require to complete the work.
4. Contractor to ensure reconciliation & return all scrap material, surplus or unused material back to Specified location.
5. Power, earthing, and welding cables that are necessary for the contractor's machine that fall under the contractor's scope.
6. The Contractor must obtain in writing the approval from the Shop in charge on the final cleaning/housekeeping of the work and making the area clean and tidy after the work completion, prior to the issue of the "Work Completion Certificate".
7. The contractor must strictly adhere to BICPL's working time and holiday list.
8. All individuals working on-site must have appropriate and relevant experience to do the work given to them in the shop. Replacement of people during work execution is not permitted unless agreed upon in advance by the BICPL Shop in charge.
9. The contractor must comply with listed below: -
  - i. Complete Wage Payment before 07<sup>th</sup> of every month.

- ii. Invoice to be submitted before 25<sup>th</sup> of every month.
  - iii. Complete PF remittance payment before the 10<sup>th</sup> of every month
  - iv. Submit all compliance documents to HR by the 12<sup>th</sup> of every mon
  - v. Complete renewal of W. C. policy prior to 1<sup>st</sup> month of renewal date.
  - vi. Complete Bonus payment before 31<sup>st</sup> Oct, submit Bonus details (Form C & D) to the Labour Dept and acknowledge copy submitted to HR dept by 01<sup>st</sup> Nov.
  - vii. Maintain Register / Forms under the Labour Law Act.
10. The contractor shall depute below stated supervision category to ensure safe and quality work with the required productivity
- Safety supervisor ratio 0 1:50, If there are less than 50 workers, at least one safety officer should be present during all working hours.
  - Manufacturing supervisor ratio of :30, If there are less than 30 workers, at least one supervisor should be present during all working hours.
  - Quality Supervisor ratio 0 1:30, If there are less than 30 workers, at least one supervisor should be present on site during all working hours.

#### HSE (HEALTH, SAFETY AND ENVIRONMENTAL PROTECTION) & HOUSEKEEPING

1. The contractor shall ensure proper protection of gas cylinders during their handling and storage. In this context, any guidelines issued by the safety officer and security officer shall be implemented by the contractor.
2. Contractor shall ensure disposal of debris/ scrap at designated place declared by the company.
3. Prior to commencing work, the contractor is required to adhere to the BICPL permission system. Work cannot be started without a permit.
4. All the activities of fabrication shall be carried out as per the prevailing HSE norms of BICPL.
5. Before beginning any work over 1.8 meters, the contractor must get a work-at-height permit. Prior to beginning work at a height, the scaffolding needs to have a green tag.
6. BICPL has complete authority to stop the work in case of HSE violation.
7. Toolbox talk prior to the start-up of any activities for the day/shift shall be mandatory. A toolbox talk is to be recorded and submitted to BICPL as surveillance checks as and when required.

#### FABRICATION & ERECTION OF SKID MODULES PIPING

The contractor's scope includes but is not limited to the following:

- Piping Prefab,
  - Erection of piping, Field Joint on module, Blanking Hydro Test, FAT
1. The contractor must ensure fabrication and assembly as per the approved drawing, QAP and specification within permissible tolerance.
  2. The contractor is responsible for securing BICPL QC acceptance in accordance with the ITP/QCP stage.
  3. Except for blasting and painting, the contractor is responsible for all tasks necessary to finish the module including material issuance, material handling, marking-cutting, welding, bolting, pre-fabrication, framing, assembly, Handrail and staircase installation.
  4. The contractor must strictly adhere to BICPL 's Quality system.
  5. Material issues from store to fabrication area are in vendor scope. (Necessary material handling equipment will be provided by BICPL)
  6. Material movement from the store to the fabrication location is the responsibility of the contractor. BICPL will provide the necessary material handling equipment.
  7. Required Scaffolding construction shall be under the contractor's scope. Scaffolding material will be provided by BICPL.
  8. BICPL will provide a Daily/weekly/Monthly plan, The contractor to ensure that the work is completed in accordance with the plan.
  9. Welder Qualification must be completed 2 weeks before starting the work.

10. All welding works must be performed by qualified welders following welding procedures approved by the project specification.
11. Any fixture required for manufacture or assembly must be fabricated by the contractor at no additional cost. On request, BICPL will supply the material.
12. The Contractor must comply with BICPL's "ZERO REPAIR" target.
13. The contractor is to submit a performance sheet every month filled in and signed by the respective department along with the invoice. (refer Annexure 2).
14. BICPL's "ZERO INCIDENT" goal is consistently met by the contractor. Penalties of INR 25,000.00 will be imposed for failure to comply.
15. The contractor is liable for the repair costs incurred because of bad workmanship.
16. The representative of the contractor must keep the recorded dimension reports up to date and submit them within allowable tolerances for the BICPL review and acceptance.
17. BICPL will provide a work completion sheet with milestone activities. The contractor is required to follow the progressive work completion sheet for billing purposes, with prior approval from the manufacturer in charge. Contractors are required to affix the Manufacturing charge's acknowledgment work completion page to their invoices. Invoices without this sheet will not be accepted under any circumstances.
18. A list of tools, equipment, and tackles needed to finish the job will be provided by the contractor.
19. Availability for the weekly review meeting must be guaranteed by the owner or the senior representative of the contractor.
20. The contractor shall submit daily manpower attendance sheet, list of equipment and machinery in working order to BICPL Shop-charge for day-to-day monitoring.
21. If unexpected events cause the project to go behind schedule, the contractor will hire more workers for both day and night shifts to clear the backlog without charging BICPL more.
22. All welding works must be performed by qualified welders following welding procedures approved by the Project/BICPL specification.
23. All welder's tests shall be witnessed by the T PI inspection or BICPL-approved inspecting authority prior to commencing the work. All qualified welder's identification cards shall be prepared by the Contractor and submitted to BICPL for approval. The contractor shall be responsible for engaging qualified welders on the job. The contractor shall keep a record of each welder's performance and periodic NDE test.
24. Before beginning work, all welder tests must be witnessed by a T PI inspection or a BICPL approved inspecting body. All qualified welder identity cards must be prepared by the Contractor and submitted to BICPL for approval. The contractor is responsible for hiring skilled welders for the task. The contractor must retain a record of each welder's performance and periodic NDE tests.

#### **DRAWINGS DOCUMENTS AND PROCEDURES**

1. BICPL is responsible for providing the relevant drawings, documents, specifications, and procedures. The contractor is responsible for ensuring that the manufacturing job quality meets the specifications provided.
2. The drawings specified in the preceding paragraphs may be amended, added to, or deleted by BICPL and given to the Contractor while carrying out the order. It is the contractor's responsibility to make sure that all the most recent revisions of the drawings and documentation that BICPL has supplied are used for fabrication, and that any older versions are either destroyed or clearly marked as obsolete.
3. After reviewing the updated, amended, or deleted drawings and documents, the contractor must notify the BICPL-shop In-charge in writing of any consequences, if any, within two business days of receiving the drawings. If no formal correspondence is received within a week after the date of the Drawing and documents' issuing, it will be assumed that the contractor accepts the changes made by BICPL with no consequences for price or delivery.

#### **PRICE ESCALATION:**

The rates quoted by the contractor in the Price Schedule shall remain firm till the completion of the work and shall not be subjected to any price escalation on any account whatsoever including any increase in the cost of



labour- wages/consumables/rental services. The contractor is to note that their quoted price shall be valid up to March 2025.

**STANDARD PENALTY:**

- A. The penalty clause will be @ 1% per week of the contract's value and shall be applicable in case the jobs are delayed beyond the engineering days specified in the inquiry document limited to a maximum of up to 10% of the contract value. -
- B. Additional penalties will be levied in the following cases:
  - o Failure to manpower mobilization
  - o Failure to resource mobilization with proper certification HSE violation
  - o Quality deviations
  - o Failure to match daily target / weekly target 0.5% per week
    - Security BG / Retention of Rs. 5L from the First bill (without interest)
    - No idleness Charges.
    - Any changes brought about by BICPL input must be settled using the contract rate or the BICPL manpower contract basis. In this scenario, the contractor must acquire prior approval from PRA].

**- Payment Terms:**

**Piping at Shop:**

FDI and visual - 90%  
Final Clearance - 10%

**Piping Erection :**

Erection of Spool, Support, Fit up, Welding, NDT, — 700  
Hydro test - 10%  
Flushing, Cleaning- 10%  
Final Box up & Final Clearance - 10%

**NOTE:** 5 % retention amount will be deducted from monthly invoice, the amount will be release after project completion.

