



ANNEXURE

USER REQUIREMENT SPECIFICATION OF **CONDENSOR FOR 2 KL REACTOR** (2110011736)

SL.NO	SPECIFICATION	
I	CONDENSOR TECHNICAL SPECIFICATION DATA SHEET	
1	NAME OF THE EQUIPMENT: CONDENSER	
2	TYPE- SHELL AND TUBE TYPE	
3	HEAT TRANSFER AREA : 6 M ²	
4	TUBE DETAILS: 25mm (dia) X 2020MM L X 56 NOS X TRIANGULAR PITCHED TO 31.75MM THICKNESS –MINIMUM 4 MM DEPENDS ON DESIGN PARAMETERS	
5	OPERATING TEMPERATURE TUBE SIDE = 90°C MAXIMUM SHELL SIDE = 40° C MAXIMUM	
6	OPERATING PRESSURE TUBE SIDE= 6KG/CM ² FULL VACUUM SHELL SIDE= 3KG/CM ²	
7	TEST PRESSURE TUBE SIDE= 9.5KG/CM ² SHELL SIDE= 5.2KG/CM ²	
8	VAPOUR INLET TUBE SIDE: 316L(MOC)	
9	COOLING MEDIUM SHELL SIDE:316L(MOC) WITH INSULATION	
10	SHELL THICKNESS MINIMUM 12MM DEPENDS ON DESIGN PARAMETERES. BOTH ENDS SHALL BE DOME SHAPE	
II	CONDENSOR INSTRUMENT DATA SHEET	
1	Compound Gauge: Condensor vapor inlet and outlet – 1 each	
2	Temperature Gauge : Condensor vapor inlet and outlet – 1 each	
3	Pressure Gauge: Condensor vapor outlet -1	
4	Vent valve: 1	
5		



SCOPE OF SUPPLY AND USER REQUIREMENT SPECIFICATION – CONDENSOR FOR 2 KL REACTOR

SL. NO.	SCOPE OF SUPPLY
1)	Dismantling of existing Condensor at HLL site.
2)	Condenser for 2KL reactor : Manufacture, Supply, loading & unloading at HLL, Erection, Installation, Commissioning as per detailed specification given in the document.
3)	Care has to be taken by manufacturer to ensure that all the used materials for manufacturing are compatible to our process.
4)	Piping for Utilities from Condensor to Utility Point will be in Supplier's Scope. Interconnecting piping & valves of SS316 MOC, between Reactor, Receiver & Condenser will be in supplier scope of supply
5)	Party has to include any kind of platform fabrication work in their scope.
6)	The Supplier has to arrange for Manpower, Tools and Consumables including fasteners (MOC SS 316).
7)	All Electrical Wiring, Internal to the Machine, as per current Electricity Rules are in the Supplier's Scope..
8)	Nozzles for Condenser will be NB based pipes with flanged end connection. Flanges will be as per ASME B 16.5 Standard. Nut bolts & Counter Flange (MOC SS316) along with gasket will be in Supplier's scope of supply.
9)	The Party has to submit the Design Qualification Drawing (GA) and Electrical Wiring diagram with appropriate Ferrule numbering for all nodes, without omission and duplication, and documents for approval before commencement of manufacturing. All the instruments / Digital indicators / Motor Control Panel etc. should Comply with the Flameproof (Gas Zone 2A,2B) Requirements & Certifications
10)	A Factory Acceptance Test should be arranged by the Supplier once the manufacturing is complete.
11)	All Qualification documents are to be approved by HLL prior to Installation and Operational Qualification at site.



Reference: Enquiry No.04052019 Dated: 4th May 2019

HLL LIFECARE LIMITED
(A GOVT. OF INDIA ENTERPRISE)

PRICE BID

ITEM: SUPPLY INSTALLATION AND COMMISSIONING OF **CONDENSOR FOR 2KL REACTOR**
Qty: 01NO.

SL.NO	Scope of supply/work	Basic price	Taxes	Total	Remarks if any
1	Condensor with complete attachments and accessories				
2	Piping including all the materials & consumables				
3	Civil work/ Platform or base fabrication as required with material				
4	Loading /Unloading				
5	Erection /Installation				

DELIVERY PERIOD (FROM THE DATE OF ORDER): _____

TERMS AND CONDITIONS OF PRICE BID:

1. The rate should be inclusive of all for Supply, Installation & Commissioning on TURN KEY BASIS.
2. Party should take care of all Safety Measures and should obtain Work Permit from our Safety Dept. before starting the work.
3. In case of any damages caused to our (HLL Lifecare Limited) property by you/ your workmen while executing the above job, the Company (HLL Lifecare Limited) shall recover the cost of such damages from you.

Place:

Date:

Signature of the Bidder

Name, Seal and Address of the Bidder