

To, M/s. BPCL ESTIMATE MUMBAI . India - 400038. Ph:,Fax:. Vendor Code:300648	REQUEST FOR QUOTATION Collective RFQ Number/ Purchase Group 1000464155 / J12-MECHANICAL Contact person/Telephone SIJU M C/0484-2821680 Fax : - Email:sijumc@bharatpetroleum.in Our ref.: J12/26056GEM	
RFQ No/Date: 6001961563 / 07.09.2026	Quotation Due Date/Time: 28.09.2026/14:00:00	
Material/Services required at: M/s. KOCHI ERNAKULAM- 682302 India		
<u>THIS TENDER IS FOR FINALIZATION OF THREE YEAR RATE CONTRACT FOR RETUBING OF CHILLER AND CONDENSER EXCHNAGERS OF PDA AT BPCL KOCHI REFINERY</u> EVALUATION METHODOLOGY: OFFERS WOULD BE EVALUATED AND CONTRACT WILL BE PLACED ON OVERALL L1 BASIS. AS THIS IS OVERALL L1 BASIS EVALUATION, THE BIDDERS MUST QUOTE FOR ALL LINE ITEMS; OTHERWISE, THEIR BID WILL NOT BE CONSIDERED FOR EVALUATION. OFFERS WITH NIL VALUE OR ZERO VALUE FOR ANY OF THE ITEMS MAY ALSO LIABLE TO BE REJECTED. TYPE OF JOB: SERVICE. NATURE OF SERVICE: SERVICE BY RATE CONTRACT. THIS IS A NON DIVISIBLE SERVICE CONTRACT JOB AS PER MSE & PPPMII PERSPECTIVE. PRICING: FIXED PRICING IS APPLICABLE AS PER ATTACHED TENDER DOCUMENT. EARNEST MONEY DEPOSIT (EMD): BIDDERS ARE REQUIRED TO SUBMIT INTEREST FREE EMD OF RS.5,00,000/- (RUPEES FIVE LAKH ONLY). THE EMD DETAILS ARE MENTIONED IN CLAUSE NO. 6 OF ATTACHED GCC AND THE TENDER DOCUMENT (TENDERDOCS). BIDDERS ARE REQUIRED TO READ AND COMPLY WITH THE "BID QUALIFICATION CRITERIA" ATTACHED WITH TENDER DOCUMENT AND SUBMIT THE REQUIRED DOCUMENTS. TIME OF COMPLETION / PERIOD OF CONTRACT: THREE YEARS FROM THE DATE OF CONTRACT. SINCE TIME IS THE ESSENCE OF THIS CONTRACT, EXECUTION OF WORK/SERVICE WITHIN THE ABOVE PERIOD SHALL BE A TENDER CONDITION FOR SMOOTH RUNNING OF THE REFINERY. OFFERS WHICH ARE NOT MEETING ABOVE TIME PERIOD WILL NOT BE CONSIDERED FOR EVALUATION. PAYMENT TERM: PAYMENT SHALL BE MADE ON THE BASIS OF WORK ACTUALLY EXECUTED AND APPROVED BY THE ENGINEER-IN-CHARGE (EIC) WITH ALL SUPPORTING DOCUMENT. 75% PAYMENT OF THE RUNNING ACCOUNT BILL (RA BILL) SHALL BE RELEASED WITHIN 15 CALENDAR DAYS OF RECEIPT OF RA BILL DULY CERTIFIED BY EIC AND THE BALANCE PAYMENT SHALL BE RELEASED WITHIN 30 DAYS OF RECEIPT OF RA BILL BY EIC AFTER DETAILED SCRUTINY. THIS PAYMENT WILL BE MADE AFTER MAKING NECESSARY DEDUCTIONS AS STIPULATED ELSEWHERE IN THE CONTRACT DOCUMENT FOR MATERIALS, SECURITY DEPOSIT OR ANY MONEYS DUE TO THE OWNER ETC. THE FINAL BILL SHALL BE SUBMITTED BY THE CONTRACTOR WITHIN ONE MONTH OF THE DATE OF PHYSICAL COMPLETION OF THE		
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WORK, AND SETTLED IMMEDIATELY BUT NOT LATER THAN 60 DAYS. THE DETAILS OF PAYMENT IS MENTIONED IN CLAUSE NO.75 TO 80 OF THE ATTACHED GENERAL CONDITIONS OF CONTRACT.

THE OFFERS, INCLUDING PRICE, RECEIVED AGAINST THIS TENDER SHALL BE VALID FOR A PERIOD OF 180 DAYS FROM THE BID OPENING DATE. IN CASE OF TWO PART BID SYSTEM, UN PRICED BID OPENING DATE IS CONSIDERED AS THE BID OPENING DATE. THE BIDDER SHOULD UPLOAD THE ATTACHED DOCUMENT "ITEM WISE PRICE DETAILS OF QUOTE" ALONG WITH PRICE BID ONLY (APPLICABLE FOR GEM TENDERS ONLY).

RATE CONTRACT CLAUSE: THIS TENDER IS INVITED FOR FINALIZING A RATE CONTRACT. THE QUANTITY MENTIONED IN TENDER DOCUMENT IS TENTATIVE AND ESTIMATED CONSIDERING THE DURATION OF THE CONTRACT AND MAY VARY TO AN EXTENT. HENCE THE SAME SHALL NOT BE TAKEN AS OUR FIRM COMMITMENT. PO QUANTITY / ACTUAL WORK MAY BE CONSIDERABLY LESS THAN THE ESTIMATED QUANTITY. BIDDER WILL NOT HAVE ANY CLAIM WHATSOEVER IF THE QUANTITY IS CONSIDERABLY LESS. THE RATE QUOTED SHALL BE FIRM FOR THE ENTIRE CONTRACT PERIOD. A RATE CONTRACT (VALUE CONTRACT) WILL BE ISSUED TO THE SUCCESSFUL BIDDER VALID FOR THE CONTRACT PERIOD AND SEPARATE RELEASE ORDERS BASED ON PRICING WILL BE ISSUED FOR ACTUAL QUANTUM OF WORK DEPENDS UPON OUR REQUIREMENT. THE TIME OF COMPLETION FOR INDIVIDUAL JOBS MENTIONED IN THE RELEASE ORDERS WILL BE THE BASE DATE FOR LIQUIDATED DAMAGES FOR DELAY.

DEVIATION TO TENDER CONDITIONS: DEVIATION TO ANY OF THE TENDER CONDITIONS IS NOT AT ALL ACCEPTABLE. BIDDERS ARE REQUESTED TO QUOTE STRICTLY AS PER OUR TENDER CONDITIONS. IN CASE OF OFFER WITH TECHNICAL/COMMERCIAL DEVIATIONS & EXCEPTIONS, PLEASE HIGHLIGHT IT WITH SPECIFIC DETAILS IN THE DEVIATION & EXCEPTION FORM. PLEASE NOTE THAT IF NO DEVIATION & EXCEPTION IS GIVEN, IT SHALL BE PRESUMED THAT YOUR OFFER HAS NO DEVIATION FROM OUR TENDER CONDITIONS. NO AMENDMENT WILL BE ENTERTAINED AFTER PLACEMENT OF ORDER.

THE BIDDER SHOULD UPLOAD ALL THE SUPPORTING DOCUMENT FOR THE TECHNO COMMERCIAL EVALUATION OF THE OFFER. THE BIDDER ALSO NEEDS TO UPLOAD THE SIGNED COPY OF THIS RFQ AND SCOPE OF WORK ALONG WITH TENDER DOCUMENTS.

PRE BID MEETING / SITE VISIT: THE PURPOSE OF PRE BID MEETING / SITE VISIT IS TO CLARIFY ANY DOUBTS OF THE BIDDERS ON THE INTERPRETATION OF THE PROVISIONS OF TENDER. PRE BID QUERIES, IF ANY, CAN BE SUBMITTED BY E MAIL ON OR BEFORE 14.09.2026. THE TECHNICAL QUERIES, IF ANY, CAN BE SUBMITTED TO lkpravinbhai@bharatpetroleum.in (TELEPHONE NO. 0484-282-4187 / MOB: 8849629181) AND COMMERCIAL QUERIES CAN BE SUBMITTED TO sijumc@bharatpetroleum.in (TELEPHONE NO. 0484-282-1680 / MOB: 8547122049). THE E TENDER NUMBER, TENDER CLAUSE, PAGE NUMBER AND POINT NUMBER SHOULD BE CLEARLY MENTIONED WITH THE PRE BID QUERY. THE PRE BID MEETING / SITE VISIT IS SCHEDULED ON 14.09.2026, 10:00 HRS AT BPCL KOCHI REFINERY. ALL INTERESTED BIDDERS ARE REQUESTED TO REACH THE SITE HALF AN HOUR BEFORE THE SCHEDULED TIME.

E TENDER - THIS IS AN E TENDER THROUGH GEM PORTAL ([HTTPS://GEM.GOV.IN](https://gem.gov.in)).
DIGITALLY SIGNED QUOTATIONS ARE INVITED, IN TWO PART BID SYSTEM (UNPRICED

TECHNO COMMERCIAL BID AND PRICED BID), FROM BIDDERS FOR THE SUBJECT SERVICE AS PER THE ENCLOSED TENDER DOCUMENTS.

SUBMISSION OF BIDS ONLINE: BIDDERS ARE REQUESTED TO SUBMIT/ UPLOAD THEIR UNPRICED AND PRICED BID WITH ALL REQUIRED DOCUMENTS THROUGH ABOVE WEBSITE. THE DETAILS ARE MENTIONED IN THE ATTACHED TENDER DOCUMENTS. THE UNPRICED BIDS WILL BE OPENED ON THE TENDER DUE DATE AFTER THE TENDER DUE TIME. THE PRICE BIDS OF QUALIFIED BIDDERS WILL BE OPENED ON A LATER DATE.

LIQUIDATED DAMAGES FOR DELAY: IN CASE THE CONTRACTOR FAILS TO COMPLETE THE WHOLE WORK WITHIN THE STIPULATED PERIOD, HE SHALL BE LIABLE TO PAY LIQUIDATED DAMAGES OF 0.5% OF THE BASIC VALUE OF CONTRACT PER WEEK AND OR PART THEREOF OF THE DELAY SUBJECT TO A MAXIMUM OF 5% OF THE VALUE OF THE CONTRACT. THE DETAILS OF PRICE REDUCTION CLAUSE IS MENTIONED IN CLAUSE NO.22 & 86 OF ATTACHED GCC.

PERFORMANCE SECURITY DEPOSIT / RETENTION MONEY: TO ENSURE PERFORMANCE OF THE CONTRACT AND DUE DISCHARGE OF THE CONTRACTUAL OBLIGATIONS, THE SUCCESSFUL CONTRACTOR WILL HAVE TO PROVIDE SECURITY DEPOSIT OF 5% OF THE BASIC VALUE OF CONTRACT. THIS SECURITY DEPOSIT MAY BE FURNISHED IN THE FORM OF BANK GUARANTEE / INSURANCE SURETY BOND IN THE PRESCRIBED FORMAT. IN CASE THE SUCCESSFUL CONTRACTOR IS NOT FURNISHING THE PERFORMANCE SECURITY DEPOSIT AS REFERRED ABOVE ON AWARD OF THE JOB, THE SAME SHALL BE DEDUCTED FROM EACH RUNNING ACCOUNT BILLS AT THE RATE OF 5% OF BILL VALUE TILL OVERALL SECURITY DEPOSIT OF 5% AS MENTIONED ABOVE IS COLLECTED. THE DETAILS OF PERFORMANCE SECURITY DEPOSIT / RETENTION MONEY IS MENTIONED IN CLAUSE NO.18 OF ATTACHED GENERAL CONDITIONS OF CONTRACT. IN THE CASE OF SECURITY DEPOSIT SUBMITTED IN THE FORM OF BANK GUARANTEE / INSURANCE SURETY BOND, THE BANK GUARANTEE / INSURANCE SURETY BOND SHALL BE VALID AND REMAIN IN FORCE TILL THE CONTRACTUAL COMPLETION PERIOD (EXPIRY OF THE DEFECT LIABILITY PERIOD- REFER CLAUSE-74 OF GCC, IF APPLICABLE) AND WITH A CLAIM PERIOD OF SIX MONTHS THEREAFTER.

DEFECT LIABILITY PERIOD: THE CONTRACTOR SHALL GUARANTEE THE WORK FOR A PERIOD OF 12 (TWELVE) MONTHS FROM THE DATE OF COMPLETION OF WORK.

GENERAL CONDITIONS OF CONTRACT (GCC): PLEASE FIND THE GCC ATTACHED WITH TENDER DOCUMENTS, SIGN ALL THE PAGES OF GCC AS A TOKEN OF YOUR ACCEPTANCE OF ALL THE TERMS & CONDITIONS AS MENTIONED AND UPLOAD WITH DULY FILLED GCC ACKNOWLEDGEMENT FORM.

BIDDERS ARE REQUIRED TO READ AND COMPLY WITH THE FOLLOWING DOCUMENTS ATTACHED WITH THE TENDER. ALL FORMS, DECLARATIONS, AND CERTIFICATES REQUIRED AS PER THE BELOW DOCUMENTS SHALL BE DULY FILLED, SIGNED, STAMPED, AND UPLOADED ALONG WITH THE TENDER DOCUMENTS. FAILURE TO SUBMIT OR SUBMISSION OF INCOMPLETE DOCUMENTS SHALL RENDER THE BID NON RESPONSIVE AND LIABLE FOR REJECTION.

1. BID QUALIFICATION CRITERIA (BQC)
2. COMMERCIAL FORMAT
3. POLICY FOR HOLIDAY LISTING OF BIDDERS IN BPCL
4. LAND BORDER RESTRICTION POLICY
5. PURCHASE PREFERENCE TO MSE
6. PURCHASE PREFERENCE TO MAKE IN INDIA

7. RELAXATION FOR START UP
8. 5 TIER SAFETY COMPETENCY MANAGEMENT
9. BID REJECTION CRITERIA FORM
10. TENDER ACKNOWLEDGEMENT FORM
11. COMPLIANCE TO BID REQUIREMENT FORM
12. BIDDER DOCUMENT CHECKLIST

IF THE BIDDER IS NOT A REGISTERED BIDDER IN BPCL, PROVIDE DULY FILLED BIDDERS INFORMATION FORM WITH REQUIRED DOCUMENT. THE BIDDERS INFORMATION FORM IS ATTACHED WITH TENDER DOCUMENT.

GST IS APPLICABLE AS PER GCC CLAUSE 86 AND ADDITIONAL TERMS AND CONDITIONS UNDER GST ARE ATTACHED WITH TENDER DOCUMENTS.

CONTRACTOR SHALL AT HIS OWN EXPENSES CARRY AND MAINTAIN INSURANCE WITH REPUTABLE INSURANCE COMPANIES TO THE SATISFACTION OF THE OWNER AS PER GCC CLAUSE 87.

BIDDERS ARE ALSO REQUIRED TO READ AND COMPLY WITH THE FOLLOWING DOCUMENTS ATTACHED WITH THE TENDER.

1. INSTRUCTIONS TO BIDDERS
2. ONE BID PER BIDDER CLAUSE
3. CONCURRENT APPLICATION
4. ADVISORY ON ENVIRONMENTAL CRITERIA
5. ADVISORY ON BANK GUARANTEE
6. GOVERNMENT DIRECTIVES
7. SAFETY & SECURITY REGULATIONS
8. INSTRUCTIONS TO CONTRACTORS

THE ATTACHED TENDER DOCUMENT (TENDERDOCS) FORMS AN INTEGRAL PART OF THIS E-TENDER. PLEASE READ, DULY FILL, SIGN, STAMP AND UPLOAD THE REQUIRED DOCUMENTS ALONG WITH YOUR OFFER. OFFERS NOT COMPLYING THE ABOVE POINTS ARE LIABLE TO BE REJECTED.

BPCL-KOCHI REFINERY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY OR ALL QUOTATIONS, EITHER IN WHOLE OR IN PART, AND TO ACCEPT ANY QUOTATION OTHER THAN THE LOWEST PRICED QUOTATION WITHOUT ASSIGNING ANY REASON. ANY QUOTATION CONTAINING INCORRECT STATEMENT OR INCOMPLETE INFORMATION IS LIABLE TO BE REJECTED.

Item	Material Description	Qty	Unit	Delivery date	Unit Basic Rate (in Figures)
00010	RC(3 YERAS) FOR RETUBING OF CHILLERS IN			01.11.2029	
The item 00010 covers the following services:					
10	89002634 MECH GEN EXCH OVERHLG	7,410	M2 (Square meter)		
RATE PER M2 OF HEATING SURFACE FOR EXCHANGER OVERHAULING WORKS AS PER SCOPE OF					
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Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	WORK			
	This line item is for payment for rate per M2 for			
	1. Dismantling and erection of exchanger cover, bonnet, connected pipelines, Valves etc. 2. Scaffolding erection and removal 3. Hose connection and disconnection 4. Hydrotesting 5. Blinding & Deblinding 6. Mobilisation and demobilisation (Mobilisation shall be done as mentioned in scope of work, mobilisation and demobilisation is counted as single qty) The job shall be done only in Day shift (8:00AM to 8:00 PM) only on BPCL working days (Monday- Saturday) excluding Sundays and holidays. Due to propylene charged area retubing works shall not to be done in night shift. Time of completion shall be 80 days from issue of blinding permit. (Sundays and holidays will be excluded for LD calculation) If urgency will be there from manufacturing side to complete the job earlier, as per instruction from engineer in charge contractor shall arrange manpower on round the clock basis including all Sundays and holidays.			
	Service Item 10: Unit basic rate in words _____			
20	89001951 EXCHANGER TUBE SEAL WELD CS	17,688	EA (each)	
	EXCHANGER TUBE SEAL WELDING USING CS ELECTRODE. THE SCOPE INCLUDES SUPPLY AND PROVISION OF ALL RESOURCES INCLUDING NECESSARY MANPOWER, EQUIPMENT AND ALL GRADES OF ELECTRODES AS PER SITE REQUIREMENTS AND AS INSTRUCTED BY AREA INCHARGE. RATE PER TUBE INCLUDING BOTH ENDS UPTO 1" DIA. TUBE SIZE OF ALL THICKNESS.			
	This rate is for strength welding of tube to tubesheet joint exchanger as mentioned in the tender specification. Payment will be per tube, inclusive of both ends			
	Service Item 20: Unit basic rate in words _____			
30	89002560 MECH GEN MACHINING	35,376	EA (each)	
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Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	LUMP SUM RATE FOR MACHINING OF PARTS AS DETAILED IN THE SCOPE OF WORK			
	Rate per tube sheet hole for making grooves as per the Tube to Tube sheet joint in the drawing shared			
	Service Item 30: Unit basic rate in words _____			
40	89001937 EXCHANGER RETUBE FIX TUBE CS	17,688	EA	(each)
	Rate per tube for Retubing of Fixed tube type exchangers-Carbon Steel - The scope of work involves removal of scales, cutting of shell of exchanger/ edge preparation/fit up/welding/DP test/ removal/ pulling out tubes without damaging tube sheets, baffles etc. rectification of tube sheet by weld filling if required, surface finishing of tube sheet, cutting and shaping the tubes to the required length if any, insertion of new tubes and tube expansion, plugging of tube after puncturing if required, rectifying roll leak if any by re-rolling/ re-expansion until leak is properly arrested during the pressure testing of exchanger at site, disposal of old tubes / scrap to scrap yard of BPCL and complete the work in all respects as per instructions of Engineer in charge. The job also involves transportation of free issue material from point of issue to work site. The job shall be done strictly as per tender specifications, BPCL practices and relevant standards TEMA, ASME section VIII Div -1 /Sec IX etc.			
	Rate per tube for retubing as per inspection instructions.			
	Service Item 40: Unit basic rate in words _____			
50	89004892 MECH GEN DEHUMIDIFICATION SER	4	LS	(Lumpsum)
	RATE FOR PROVIDING DEHUMIDIFICATION SERVICES AS PER DETAILS IN SCOPE OF WORK			
	Provision of hot work safe enclosure and dehumidification setup as mentioned in the scope of work for the entire period of contract.			
	Service Item 50: Unit basic rate in words _____			
60	89004660 EXCHANGER ADDL TEST EXCH ADD TEST SPEC D	8	EA	(each)
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Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	rate of additional shell/tube test/combined test for each exchanger. Rate for one single additional test. This line item is for doing exchanger shell test or tube test. THIS ALSO INCLUDES PROVIDING TEFLON PLUGS ARRANGED BY CONTRACTOR FOR CARRYING OUT SHELL TEST, HIGH PRESSURE HOSE CONNECTION, PRESSURISING AS PER INSPECTION RECOMMENDATION, PUTTING SOAP SOLUTION AT ENDS OF TUBE SHEETS AND SHOWING TO INSPECTION. NO ADDITIONAL PAYMENT WILL BE GIVEN FOR FIXING TEFLON PLUGS ON TUBES. THIS ALSO INCLUDES PLUGGING OF TUBE BY SEAL WELDING IN CASE OF ANY TUBE LEAK. Service Item 60: Unit basic rate in words _____			
70	89002061 FABRN BUTT PATCH ABV12MM THK CS PLATE	40	M2 (Square meter)	
	BUTT PATCH WELDING WITH CS ELECTRODES. THE RATE INCLUDES WELDING WITH ALL / ANY GRADE OF CS ELECTRODE AS PER SITE REQUIREMENT AND AS DIRECTED BY THE ENGR IN CHARGE. RATE PER SQ.M OF PATCH INCLUDING GAS CUTTING TO SUIT SITE REQUIREMENT, EDGE PREPARATION, ERECTION AND WELDING PATCH PLATES ON THE PIPELINE / EQUIPMENT INCLUDING PATCH WELDING FOR ALL HEIGHTS ABOVE 12 MM THK UPTO 20 MM THK PLATES. Rate per m2 of shell cutting which is inclusive of carrying out the following activities: 1. Shell plate cutting as per instructions of EIC 2. Thorough cleaning of shell by taking personnel entry inside the shell 3. Fit up & welding of the plates are to be done after tube pulling and cleaning 4. NDT of the weld as specified in the detailed scope (in case of any leak/ crack is coming during NDT, same shall be repaired by contractor. No additional payment will be given) Service Item 70: Unit basic rate in words _____			
80	89000460 PAINTG FINISHPAINT - 2 COAT	100	M2 (Square meter)	
	PAINTING			
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To:M/s. BPCL ESTIMATE MUMBAI - 400038 India (300648)

Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	FINISH PAINT RATE PER SQUARE METER FOR APPLICATION OF CHLORINATED RUBBER/ENAMEL/HR ALUMINIUM OR EQUIVALENT FINISH PAINT (TWO COATS) ON PIPELINES/EQUIPMENTS AS PER BPCL SPECIFICATION. PAINT FOR ALL HEIGHTS and ELEVATIONS AS PER THE DIRECTIONS OF THE ENGINEER IN CHARGE.			
	Rate per m2 for applying epoxy paint on tube sheet, channel head & covers as per the instructions of EIC as per paint suggested by inspection department (paint is in scope of contractor) (MDF of paint shall be submitted by contractor during billing works)			
	Service Item 80: Unit basic rate in words _____			
State GST % : _____ % Central GST % : _____ % Integrated GST % : _____ %				
Union Ter. GST % : _____ % GST Comp. Cess % : _____ %				
HSN Code / SAC Code : _____				
Billing State : _____				
* 01 SCOPE OF WORK & SCC RATE CONTRACT FOR PDALZ12 CHILLER AND CONDESNER EXCHANGERS RETUBING Introduction " It is required to retube 2 chiller exchangers and 2 condenser exchangers installed in the chiller packages of PDALZ12 in the petrochemical complex of BPCL Kochi Refinery. Time period for the contract shall be 3 years from awarding of Rate contract. The exchangers to be retubed along with their details are below: PDALZ12 Chiller Exchangers Exchanger Tags: PDAE99, PDAE102 Exchanger Type: Horizontal-AXM Platform Elevation from ground floor: 14m Shell Side Fluid: Propylene No.of Shell Side Passes: 1 Tube Side Fluid: Cooling Water No.of Tube Side Passes: 2				
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Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	No.of Tubes:	2658 straight tubes per exchanger		
	Tube Length:	7000mm		
	Tube Surface Area	1113.5m2 / exchanger		
	Tube Metallurgy	SA 334 GR6		
	Tube Sheet Thickness	72mm		
	Tube Sheet Metallurgy	SA 350 GR LF2 CL1		
	Tube to T/S joint	Strength Weld with Light Expansion		
	Shell Thickness	20mm		
	Shell Metallurgy	SA516 GR60		
	Shell Test Pressure	23.65 Kg/cm2 (Pneumatic)		
	Tube Test Pressure	21.45 kg/cm2 (Hydraulic)		
	PDALZ12 Condenser Exchangers			
	Exchanger Tags:	PDAE98, PDAE101		
	Exchanger Type:	Horizontal-AXM		
	Platform Elevation:	30 m		
	Shell Side Fluid:	Propylene		
	No. of Shell Side Passes:	1 1		
	Tube Side Fluid:	Cooling Water		
	No. of Tube Side Passes:	4		
	No. of Tubes:	6186 straight tubes per exchanger		
	Tube Length:	7000mm		
	Tube Surface Area	2591.5m2 / exchanger		
	Tube Metallurgy	SA 334 GR6		
	Tube Sheet Thickness	88mm		
	Tube Sheet Metallurgy	SA 350 GR LF2 CL1		
	Tube to T/S joint	Strength Weld with Light Expansion		
	Shell Thickness	26mm		
	Shell Metallurgy	SA516 GR60		
	Shell Test Pressure	23.65 Kg/cm2 (Pneumatic)		
	Tube Test Pressure	21.58 kg/cm2 (Hydraulic)		
	" One chiller exchanger and one condenser exchanger will be released for retubing together (i.e. PDAE101 and PDAE102 will be given for retubing at once and PDAE98 and PDAE99 will be given for retubing at once). At a time only one chiller exchanger and one condenser exchanger will be handed over for retubing. All the jobs pertaining to each exchanger shall be completed within 80 days from the issue of blinding permit of respective heat exchanger. Work shall be carried out from 8 AM to 8 PM only on BPCL working days. Work shall not be carried out on Sundays and holidays. (Sundays and holidays will be excluded for LD calculation) " But in case of plant emergencies and work needs to be completed on urgency contractor shall arrange manpower and resources on round the clock basis including all Sundays and holidays. " Hot work safe enclosures shall be erected during the retubing jobs for the			
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Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	exchanger. The requirements of this hot work safe enclosure are detailed in the section below " Scaffolding will be in Contractor's scope " Painting of channel head/cover inside area to be carried out if recommended by BPCL Inspection. " All jobs for the exchanger overhauling - including blinding, deblinding, hose connections, retubing, pressure testing, and passivation is in the scope of the CONTRACTOR as detailed in the scope below. Scope of work " One chiller exchanger and one condenser exchanger will be handed over at a time for retubing job. " Before starting work, the contractor has to shift heat exchanger tubes from the warehouse to site. Trailer and farana for the same shall be arranged by the contractor. " Before starting of job, contractor has to meet inspection in charge and has to understand complete scope of inspection. " CONTRACTOR has to blind the exchangers as per the blind list for carrying out the retubing job. " CONTRACTOR must remove channel cover and channel head assembly (Both LHS and RHS) using chain blocks supported by slings/belts, d-shackle, etc. over structural supports. " CONTRACTOR shall open all stud bolts using hammer, spanner, torqueing tool and drop/dismantle the channel cover and channel head (Both LHS & RHS) using chain blocks supported by slings/belts, d-shackle, etc. over structural supports. " Contractor shall complete retubing of exchanger as per instructions of procedure provided by Inspection. " All NDTs are in scope of contractor. " Contractor shall do buffing at locations shown by inspection for carrying out inspection. No additional payment will be given for the same. " After completion of all re-tubing works and getting clearance from Inspection, the CONTRACTOR shall fix back both channel head and channel cover. Also, the CONTRACTOR shall tighten all the stud bolts using hammer and torqueing tool. The CONTRACTOR shall then proceed for pressure test of the exchanger. " Shell side pneumatic test is to be carried out. For that, contractor has to arrange Teflon plugs to plug one side of tubes on tubesheet. For shell test, contractor has to plug one side of tube sheet with Teflon plugs and has to do pneumatic test as per standard procedure. Contractor has to arrange 6200 nos. of Teflon plugs (size: Major dia: 16.59 mm, minor dia: 12.59 mm, Length: 50mm). " During shell test if tube leaks are identified, same shall be attended by the contractor. No additional payment will be made. Contractor shall weld the plug or repair the seal weld. No additional payment will be given for the same.			
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Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	" After shell test, the contractor has to box up both covers and has to do tube side hydrotest. " After pressure test, contractor has to do passivation of the heat exchanger. Shifting and lifting of tanks, pumps, hoses are in scope of contractor. Hose connections, disconnections, pump and tank erection at site and removal from site after job is also in contractor's scope. To attend any leak during passivation is also in scope of contractor. (Pump and tanks will be provided by BPCL, for the job Farana and Trailer required needs to be arranged by contractor, no separate payment will be given for the same, chemicals required for passivation will be provided by BPCL through other agency.) " No separate payment shall be made for blinding & deblinding and passivation related activities, and these activities are included in the exchanger overhauling item. " The CONTRACTOR shall provide and disconnect hose connections in case if required for exchanger retubing activity. The fittings shall be issued by BPCL as per list made by the CONTRACTOR. No separate payment shall be made for hose connections. " Tubes required for retubing shall be shifted to site and lifted to heat exchanger platform by the CONTRACTOR. " After completion of all re-tubing works, the CONTRACTOR shall fix the covers of the exchanger back and shall tighten all the stud bolts using hammer and torqueing tool. " Painting of channel head/cover inside area to be carried out by the CONTRACTOR as recommended by BPCL Inspection. Separate payment will be made for this painting as per the m2 through service item 80. " After completion of job, contractor shall shift removed tubes to scrap yard and shall do housekeeping of the area. " Hot Work Safe Enclosure (HWSE): o Hot work safe enclosure needs to be provided at both chiller exchanger and condenser exchangers at the same time till hot works are not over. Two enclosures shall be arranged by contractor to carry out retubing of chiller and condenser exchanger at the same time. Enclosures shall be done at both sides of tube sheet. o As the work is planned inside a potentially hazardous running plant, hydrocarbon gas leaks are possible. Hence the CONTRACTOR shall arrange for hot work safety enclosures during re-tubing activities like tube grinding, cutting(if required),welding, stress relieving etc. o The pressurized Hot work safety Enclosures used by the CONTRACTOR shall be able to isolate ignition sources that are generated from hot work operations taking place inside the enclosure from any potentially flammable gases that may exist outside the enclosure. o The enclosure shall be made from a Non asbestos textile/Fire blanket - (heavy duty fabric woven by SiO2 content yarn specially formulated Acid treatment and additional coatings to enhance abrasion and tensile strength) which can withstand continuous temperatures of up to 1000°C, and meet the fire			
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Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	resistance and ignition prevention standards/ Tested as per IS11871 Gr A&B. - o The enclosure shall have a soft door with Fabric with Velcro and a zipper arrangement to ensure perfect sealing of enclosure. - o Also, all the opening areas shall have Velcro arrangements to ensure perfect sealing - o The hot work safety enclosures shall be made in such a way that it will remain pressurized externally with de-humidification machines. The pressurized hot work safe enclosure shall be of minimum size: Breadth 4 meter X Height 4 meter X Width 3 meter. - o Basic sketch of the HWSE, mentioning the all requirements of HWSE, is attached in the Annexures. - o The enclosures shall be made for both the front and rear side of the exchanger being retubed, so that simultaneous hotwork activities can happen at both ends. - o The enclosure needs to be dismantled and erected while cutting shell for tube removal. No separate payment shall be made for multiple dismantling and erection of enclosure. There shall be only one payment for the erection/ dismantling of multiple hot work safe enclosures required for the completion of the entire retubing job for one exchanger. - o The final drawing of proposed hot work safe enclosure shall be submitted by CONTRACTOR for approval by BPCL EIC before start of work. - o Pneumatic air supply shall be provided to the enclosure through de-humidification blowers to initially pressurize (above atmospheric pressure) and to maintain positive pressure inside enclosure. It shall be ensured that the continuous supply of fresh air into the enclosure is at a higher rate than that at which air inside it is extracted. The tube of the dehumidification shall be at outside plant area and sufficient length (minimum- 60 meter) hose shall be used to reach the enclosure. - o A pressure gauge /manometer shall be integrated into enclosure for visual confirmation of pressure inside the enclosure - o In case of failure of any equipment, the CONTRACTOR shall repair/replace the unit within a period of 24 hours - o Portable multi gas detectors shall be fixed at the inlet of air duct of air blower and inside the enclosure for getting alarm on any gas leak. CONTRACTOR shall station an operator at the dehumidifier machine whenever it is under operation. On alarm the operator shall shutdown the machine thereby cutting of air supply to the enclosure. " Scaffolding: - o Scaffoldings required (as per ROS-20) for the successful completion of the job falls under CONTRACTOR's scope. - o All scaffoldings shall be tagged with either "Ready to use Scaffold" tags after the scaffolding is checked for healthiness by the contract supervisor and is ready to work on; or "Do not use Scaffold" tags, when scaffolding erection is not completed or the work of erection/dismantling is in progress. Tags shall be supplied by BPCL. - o No separate payment shall be made for scaffolding jobs			
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Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	" Pressure Tests: - o The CONTRACTOR shall carry out two tests (initial shell test, final tube test) in fixed tube sheet type exchanger. - o CONTRACTOR shall lay hoses from the source point to the exchanger for pressure tests. Hoses will be supplied by BPCL. - o Shell test shall be pneumatic and shall be done using Nitrogen. Nitrogen will be supplied by BPCL. For pneumatic test whip connectors shall be arranged by contractor. a. For shell test, Teflon plugs needs to be arranged by the contractor. (Teflon plugs (size: Major dia: 16.59 mm, minor dia: 12.59 mm, Length: 50mm)- 6200 nos.) - o For tube test, the CONTRACTOR shall fill tube side with water and pressurize using pumps. Before pressurization, the CONTRACTOR shall ensure that the air from tube side is properly removed by venting. Pumps, accessories like high pressure hoses, couplings, fittings, pressure gauges, etc shall be arranged by the CONTRACTOR. - o The CONTRACTOR shall use calibrated pressure gauges which will be checked by BPCL instrumentation and pressure gauges to be used shall be in the range of 1.5 times to 4 times of test pressure. - o In case of leak during hydro test like roll leak, gasket leak, etc the CONTRACTOR shall expand/seal weld, replace the gasket respectively to attend the leak. And the CONTRACTOR shall carry out additional hydro test. " Retubing, Strength-Welding & PWHT: - o RETUBING: Tube sheet thickness of PDAE99 and 102 is 72mm and tubesheet thickness for PDAE98 and PDAE101 is 88 mm. The CONTRACTOR shall arrange special tools including tube stub pullers, hydraulic pullers, expanders etc. The CONTRACTOR shall carry out re- tubing of heat exchangers including removal of scales, tube pulling, removing of old tube stubs without damaging the tube sheets and baffles, tube cutting, LHS and RHS tube sheet drilling, groove preparation (Groove shall be as per the tube to tubesheet details mentioned in the drawing), cleaning/repair of baffles, tie rods, tube sheet groove, and weld filling of tube sheets if required, etc. and insertion of new tubes, tube expansion, tube end flaring. The tools and tackles, drilling machine with suitable drill bit length to drill through tube sheet thickness, expanding machine, tube pulling machine, etc shall be arranged by the CONTRACTOR. - o If shell cutting is required, same has to be done by the CONTRACTOR (approximately area of 1m² each at around 4 locations but subjected to variations) as instructed by Engineer In Charge/BPCL Inspection (Chiller- Shell -20mm Thick, SA516 GR60 and Condenser- Shell -26mm Thick, SA516 GR60) to enable tube pulling. Thorough cleaning of shell has to be carried out by taking personnel entry inside the shell. Fit up of the plates are to be done after tube pulling and cleaning. Welding and NDT shall be as per approved QAP. TIG welding using ER70S2 filler. Dye penetration (DP) test of root pass and final pass shall be done using low chloride dye penetration kit. The DP kit shall be supplied by the CONTRACTOR. The above activities of shell plate			
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Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	cutting, cleaning & welding back shall be paid for separately through service item 70 o PWHT of shell plate joints after welding also to be carried out as per BPCL approved procedure. o The CONTRACTOR shall submit the re-tubing plan to BPCL for approval o STRENGTH WELDING: Fit up of tube-to-tube sheet joint after tube insertion shall be done. o TIG welding of tube-to-tube sheet joint, dye penetration test of all joints before PWHT and after PWHT shall be done. Pre heat and inter pass temperature during welding shall be maintained as per specified values. PWHT to be carried out as per BPCL given procedure. The CONTRACTOR shall mobilize and qualify a minimum of 5 no. TIG welders for carrying out strength welding. Welders being mobilized shall undergo welder qualification test conducted by BPCL Inspection as per ASME section IX. o In case of porosity / leak during testing the CONTRACTOR shall repair the strength weld. No extra payment shall be made for repairs. o While carrying out PWHT, CONTRACTOR shall ensure standby personnel at site with gas detectors on round the clock basis till PWHT completion, to ensure safe operation at elevated temperatures. " WPS & NDT: o WPS & NDT to be followed is as per Annx 6 o Refer Annexure 4 for the following supporting documents: " PECPL/1696/WPS/20/001 " PECPL/379/PQR " PECPL/WPS/20/075 " PECPL/PQR/20/075 o Welder qualification for Shell-Shell joint, Tube- Tube sheet joint as applicable need to be done, if already BPCL KR welder is available, records need to be produced/Requalification to be done Time of Completion " The RC is being lined-up for a period of 3 years " Contactor shall be intimated 10 days before the required date of start of work. The time of completion for both exchanger shall be 80 days from the date of issue of work permit for blinding for respective exchangers. The job shall be done only in Day shift (8:00AM to 8:00 PM) only on BPCL working days, work shall not be done in night shifts and Sundays and holidays. The jobs shall be deemed complete only upon closure of the deblinding permit. (Holidays and Sundays will not be counted while counting number of days). (Sundays and holidays will be excluded for LD calculation). " If urgency will be there from manufacturing side to complete the job earlier, as per instruction from engineer in charge contractor shall arrange manpower on round the clock basis including all Sundays and holidays. Scope of Supply 2. CONTRACTOR			
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Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	a. The pressurized hot work safe enclosure as mentioned in the detailed scope. (2 nos. at same at time) b. Dehumidification arrangement with air blower (4Nos). 12 Hrs operation for one machine. c. Discharge and suction hoses (60 Meter minimum) required for job. d. Flange spreaders e. Hydro testing pumps f. All scaffoldings for the successful completion of job g. Tarpaulin, Al sheet h. Pickup (1 No.) of 1.5 Ton payload capacity for material shifting from point of issue to work site and also for arranging diesel for bundle puller from nearest pump outside refinery. i. Trailer (1 Nos of min 20ton capacity) for all jobs related to retubing work. j. Farana for all jobs related to retubing works. k. Bus and Taxi for transportation of manpower from main gate to work site and vice versa. l. Pressure gauges (5 Nos.) with calibration certificate m. Teflon plugs (size: Major dia: 16.59 mm, minor dia: 12.59 mm, Length: 50mm)- 6200 nos. n. Torquing machine if torqueing is required for successful completion of the job o. All skilled manpower, riggers, supervisors, quality control personnel, etc. and tools, tackles, hammers, spanners, etc. p. Exchanger re-tubing winches, tube expanders, all consumables, tools , lifting tools/tackles, drills, tube pullers, drills, chucks, tube sheet hole radius cutter welding machines, cutting sets, grinding machines, electrodes, grinding wheel etc. q. NDTs (DP kits) r. Tube stub pullers s. Tube pullers t. Air compressors (3 Nos.) u. Welding electrodes, gouging electrodes, cutting electrodes v. Skilled workers, supervisors, welders for successful completion of job w. Licensed electrician through out the job. x. All personnel protective equipment like safety helmets, goggles, face shield, PVC full protective overalls or PVC jackets and trousers, safety gloves and shoes, safety harness, etc. y. Scaffolding material, clamps, pipes, base plate, etc. z. All electrical cables (from CONTRACTOR'S panel/equipment to BPCL panel) shall be arranged by the CONTRACTOR. (Length 100M) aa. Industrial armored electrical cables, electrical panel, flame proof & explosion proof extension boards, other electrical spares, etc. bb. Chain blocks, slings, D shackles, lifting pads with valid certification and documents cc. Intrinsically safe mobile phone for communication dd. Electrical power distribution board with ELCB			
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Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	ee. Electrical power distribution cables ff. Switch boards gg. Safety sign boards & tapes hh. Safety shoes & safety helmets ii. Safety gloves, Face mask, Safety belts, Goggles, etc., jj. Diesel for operation of all equipments, vehicles, etc. mobilized by the CONTRACTOR shall be supplied by the CONTRACTOR himself. kk. Transportation of equipment & manpower ll. Diesel for CONTRACTOR vehicles mm. Transport, food, lodging, and boarding of CONTRACTOR personnel nn. Multi Gas detectors oo. Paint for cooling water side painting In case of breakdown of any equipment mobilized by the CONTRACTOR, the CONTRACTOR shall arrange for replacement on an immediate basis 3. BPCL a. Construction power for all works. Construction power shall be made available at one point near the work site free of cost by BPCL. Further arrangements for giving connections wherever required are to be done by the CONTRACTOR as per the statutory rules and regulations and instructions of BPCL Engineer in Charge b. Heat Exchanger tubes for retubing c. Utilities like Steam, Air, DM Water and Nitrogen will be provided by BPCL. d. Metallic gaskets and Stud Bolts etc. required e. Hoses for hose connections, blinds/spades for blinding and spading and small bore threaded and welded fittings as per requirement on returnable basis f. Valid work permit for the job. g. Crane beyond capacity Farana. h. Passivation pump, tank and chemicals. Site Visit " Site visit is not rejection criteria, but it is recommended to get familiarization with job. General Conditions " MOBILISATION: The CONTRACTOR shall mobilize resources for carrying out the work within a period of 10 days from the date of intimation through e-mail. " WORKING HOURS: The job shall be done only in Day shift (8:00AM to 8:00 PM) only on BPCL working days (Monday to Saturday) and job shall not be carried out in night shifts and Sundays and holidays. If urgency will be there from manufacturing side to complete the job earlier, as per instruction from engineer in charge contractor shall arrange manpower on round the clock basis including all Sundays and holidays. " INSPECTION: The CONTRACTOR shall maintain records of all inspection carried out by BPCL inspectors (as per attached Quality Assurance format) and he shall also co-ordinate with BPCL inspection and offer all exchangers for stage wise inspection activity, also before offering the exchanger to BPCL inspection the CONTRACTOR shall witness the exchanger himself. It should be			
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Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	noted that the QC personnel deployed by the CONTRACTOR shall have past work experience for exchanger jobs. " HOUSEKEEPING: The CONTRACTOR shall maintain good housekeeping standards during execution of work so as not to hinder the operation of the plant. All scrap material, food waste, etc shall be collected in bags or drums and shall be disposed of in BPCL KR scrap yard. " CONSTRUCTION POWER: o Laying of electrical cables, connecting the cables to machine shall be done by the CONTRACTOR. The CONTRACTOR shall arrange sufficient length of cable to reach the required locations for carrying out exchanger works as mentioned in the scope. In case any road crossing is required for laying of cable the CONTRACTOR shall put structural channel over cable with mud packing along the length for vehicle crossing. o Request for electrical construction power/EDG power in prescribed format and electrical panel installation completion report shall be submitted by the CONTRACTOR before start of the job o ELCB protection shall be provided with local isolation on the CONTRACTOR's electrical panel o Arranging gland, lug & termination at CONTRACTOR's panel shall be done by the CONTRACTOR o Crimping, glanding at CONTRACTOR's panel shall be done by the CONTRACTOR's licensed electrician o The CONTRACTOR shall carry out all Electrical works only through licensed Electricians o One qualified Electrical Safety Engineer shall be engaged by the CONTRACTOR for checking the CONTRACTORs Electrical / power distribution system / equipment o Specification for CONTRACTOR's Electrical Distribution Board/Panel: " The CONTRACTOR's Electrical DB shall be standard, industrial type free standing and vermin proof with rain guard provision, IP 54 ingress protection " The Panel shall be with suitable rated MCCB with ELR/ELCB protection and outgoing MCCB with ELCB protection " All the ELCB shall be rated 30mAmps whereas incomer may be 100mAmps " Electrical panel shall have double earthing provision with local isolation switch " Electrical panel shall have adequate capacity aluminium bus bar enclosed " There shall be adequate space in the electrical panel for cable termination and connection " Suitable size cable lug and cable gland provision shall be done by the CONTRACTOR " Separate Distribution shall be there for 3 phase and 1 phase outlet with ELCB protection in the CONTRACTOR's Electrical panel " All the extension boards shall be with ELCB protection and industrial type plug/socket with double earthing provision " Branded rubber mats shall be used inside the panel shed " Rain guard, rubber mat & fire extinguishers shall be provided for the Electrical panel			
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Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	" All portable electrical items (including single phase/three phase power distribution boards) shall be offered to ES for safety certification at least few days prior to start of shutdown jobs. " Above offered electrical items shall be in very good visual as well as satisfactory performing condition and same needs to be offered for safety inspection only after thorough PM check by the concerned contractor electrician. Bad quality electrical items will be rejected and same will not be permitted for usage. " Both ELR/ELCB/RCCB and MCB/HRC fuses shall be present for electrical Main Distribution Boards as well as individual Distribution Boards. Each power distribution shall have ELCB and MCB suitably rated for the contractor application. " Only armored cables shall be permitted for incomer power supply to contractor power distribution boards. Flexible cables for power connection distribution shall be with steel wire braiding for cable lengths more than 50M. No outer insulation/sheathing damage permitted for power cables. " Temporary HVACs brought inside for various applications shall be in very good visual as well as performance condition. Old HVACs brought inside will be outrightly rejected. " Adequate rain protection shall be provided for all electrical items used for shutdown. Rain protection shall be suitable for avoiding moisture entry into the electrical items as also wetness of insulation mat provided as well as fire extinguisher/fire buckets provided shall be avoided. " The presence of licensed electrician is a mandatory requirement. Without the presence of electrician, electric power supply shall not be used for shut down jobs. " In case of usage of more electrical loads, the presence of licensed electrical supervisor is also a mandatory requirement. " TPI certified equipment will only be permitted for hydrojetting, winch application and similar kind of heavy duty equipment. o The Electrical Works for construction or demolition purposes must comply with the Central Electricity Authority (Safety Requirements for Construction, Operation and Maintenance of Electrical Plants and Electric Lines) Regulations, 2011, Indian Electricity Act 2003 and Central Electricity Authority (Measures to Safety and Electric Supply) Regulations, 2010. " SECURITY & ESI P/F REGULATIONS: The CONTRACTOR shall abide by all Security & ESI / PF rules/ regulations & guidelines in vogue at BPCL Kochi Refinery. All staff and workers engaged by the CONTRACTOR shall have Aadhar number and bank account. The Aadhar number and bank account details need to be submitted to BPCL for getting entry passes. All staff employed by the CONTRACTOR shall have valid Police Clearance Certificates (PCC) for getting permission to work inside BPCL Kochi Refinery. CONTRACTOR shall ensure that all his workmen and supervisors employed for the job have undergone safety training being imparted by BPCL (KR). Gate Entry passes shall be issued by the BPCL based on the information provided by the CONTRACTOR; however, it shall be the CONTRACTOR's responsibility to ensure the good character of the staff. BPCL can advise on			
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Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	current requirements which could include permissions required as per statutory / GOVT. authorities for all employees. " WORK PERMIT: The CONTRACTOR shall follow the work permit system of BPCL Kochi Refinery as per attached ROS 90. The CONTRACTOR in no case shall carryout any work without a valid work permit system. The contract supervisor shall obtain a valid work permit system from plant shift in charge, operator and engineer in charge and shall renew the same at 15:00 Hrs, 23:00 Hrs and 07:00 Hrs every day. " All conditions of GCC applicable. " First aid measures shall be as given below: - o In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. - o In case of skin contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. - o All persons working must be in full PPE with complete face protection with chemical safety goggles, face shields, rubber hand gloves, gum boot and plastic apron with full sleeve and body coverings. " If a contractor employs less than 30 employees, he shall designate one dedicated supervisor as a safety steward. For every 30 persons or more contractor shall appoint one qualified safety steward (Diploma in industrial safety or equivalent qualification such as NEBOSH etc). For more than one safety steward, one of them shall be appointed as Chief safety steward. In addition to above contractor shall also appoint one safety officer for every 100 workers. Safety officer shall have Diploma in Industrial Safety or any equivalent qualification from the Government Recognized Institute and minimum 2 years of relevant industry experience. For more than one safety officer, one of them shall be appointed as Chief safety officer. In both the cases, the contractor must specify in writing the name of such persons to the Engineer-in-Charge. Payment: 1. Line item 10 (MECH GEN EXCH OVERHLG- 89002634): This line item is for payment for rate per M2 for 1. Dismantling and erection of exchanger cover, bonnet, connected pipelines, Valves etc. 2. Scaffolding erection and removal 3. Hose connection and disconnection 4. Hydrotesting 5. Blinding & Deblinding 6. Mobilisation and demobilisation (Mobilisation shall be done as mentioned in scope of work, mobilisation and demobilisation is counted as single qty)			
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Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	The job shall be done only in Day shift (8:00AM to 8:00 PM) only on BPCL working days (Monday- Saturday) excluding Sundays and holidays. Due to propylene charged area retubing works shall not to be done in night shift. Time of completion shall be 80 days from issue of blinding permit. (Sundays and holidays will be excluded for LD calculation) If urgency will be there from manufacturing side to complete the job earlier, as per instruction from engineer in charge contractor shall arrange manpower on round the clock basis including all Sundays and holidays. 2. Line item 20 (EXCHANGER TUBE SEAL WELD CS- 89001951): This rate is for strength welding of tube to tubesheet joint exchanger as mentioned in the tender specification. Payment will be per tube, inclusive of both ends. 3. Line item 30 (MECH GEN MACHINING- 89002560): Rate per tube sheet hole for making grooves as per the Tube to Tube sheet joint in the drawing shared. 4. Line item 40 (EXCHANGER RETUBE FIX TUBE CS- 89001937): Rate per tube for retubing as per inspection instructions. 5. Line item 50 (MECH GEN DEHUMIDIFICATION SER- 89004892): Provision of hot work safe enclosure and dehumidification setup as mentioned in the scope of work for the entire period of contract. 6. Line item 60 (EXCHANGER ADDL TEST EXCH ADD TEST SPEC D- 89004660): This line item is for doing exchanger shell test or tube test. THIS ALSO INCLUDES PROVIDING TEFLON PLUGS ARRANGED BY CONTRACTOR FOR CARRYING OUT SHELL TEST, HIGH PRESSURE HOSE CONNECTION, PRESSURISING AS PER INSPECTION RECOMMENDATION, PUTTING SOAP SOLUTION AT ENDS OF TUBE SHEETS AND SHOWING TO INSPECTION. NO ADDITIONAL PAYMENT WILL BE GIVEN FOR FIXING TEFLON PLUGS ON TUBES. THIS ALSO INCLUDES PLUGGING OF TUBE BY SEAL WELDING IN CASE OF ANY TUBE LEAK. 7. Line item 70 (FABRN BUTT PATCH ABV12MM THK CS PLATE- 89002061): Rate per m2 of shell cutting which is inclusive of carrying out the following activities: 1. Shell plate cutting as per instructions of EIC 2. Thorough cleaning of shell by taking personnel entry inside the shell 3. Fit up & welding of the plates are to be done after tube pulling and cleaning 4. NDT of the weld as specified in the detailed scope (in case of any leak/ crack is coming during NDT, same shall be repaired by contractor. No additional payment will be given) 8. Line item 80 (PAINTG FINISHPAINT - 2 COAT- 89000460): Rate per m2 for applying epoxy paint on tube sheet, channel head & covers as			
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To:M/s. BPCL ESTIMATE MUMBAI - 400038 India **(300648)**

Item	Material Description	Qty	Unit Delivery date	Unit Basic Rate (in Figures)
	per the instructions of EIC as per paint suggested by inspection department (paint is in scope of contractor) (MDF of paint shall be submitted by contractor during billing works) Annexures 1. PDAE93/ PDAE96/ PDAE99/ PDAE102 GA drawing (Drawing Number: PRJ/5235/32) 2. Hot Work Safe Enclosure (HWSE) basic drawing 3. Quality Assurance format 4. WPS supporting document			
* 02	GCC AND OTHER TENDER DOCUMENTS Attached with ATCDocs in GEM tender portal.			
Grand Total (inclusive of all taxes, duties/charges etc) In figure: In Words :				
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To:M/s. BPCL ESTIMATE MUMBAI - 400038 India (300648)

TERMS & CONDITIONS

Important Notice

Sr.No	Description
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| 001 | Quotation received after due date will not be entertained |
| 002 | Your quotation must specify exact amount or percentage discount, GST, Charges, Transport, Packing & forwarding, etc. as applicable. |
| 003 | In case you are unable to quote, kindly send the quotation with a regret for our records. Non-receipt of a regret will adversely affect your vendor rating. |
| 004 | No quotation will be accepted without your rubber stamp and signature. |
| 005 | Your quotation must be strictly in enclosed envelope indicating Collective RFQ No., RFQ No. and due date. |
| 006 | For all future correspondences please mention the vendor code Collective RFQ Number & RFQ Number. |

LIST OF ENCLOSURES

1. SCOPE OF WORK & SCC
2. GCC AND OTHER TENDER DOCUMENTS

To:M/s. BPCL ESTIMATE MUMBAI - 400038 India (300648)

-----Tear off Portion to be pasted on the envelope containing offer-----

Collective RFQ No. : 1000464155

Our Reference: J12/26056GEM
RFQ No. : 6001961563
Subject:

Due Date : 28.09.2026
Due Time : 14:00:00

To,
PROCUREMENT & CONTRACT SERVCIES
BPCL - KOCHI REFINERY
POST BAG NO 2, AMBALAMUGAL
KOCHI, INDIA
682302

Purchase Group : J12-MECHANICAL