		<b>BHARAT HEAVY ELECTRICALS LIMITED</b> <b>R.C.PURAM, HYDERABAD-502032</b>			
<b>PROJECT ENGINEERING &amp; SYSTEMS DIVISION</b>					
<b>PRICE FORMAT (R01) FOR HRSG BFP</b> <b>PROJECT: RESID UPGRADATION PROJECT/GTG &amp; HRSG PCKG</b> <b>CUSTOMER: CHENNAI PETROLEUM CORPORATION LIMITED (CPCL), MANALI- CHENNAI.</b> <b>CONSULTANT: M/S JACOBS ENGG INDIA PVT LTD, MUMBAI</b>					
<b>Ref No.: PEDM/CPCL/BFP/PBF/15/01</b>					
SL NO	ITEM DESCRIPTION	QTY	UNIT	UNIT RATE (RS.)	TOTAL (RS.)
<b>Bidder's Name : &lt;Bidder to indicate&gt;</b> <b>Bidder's Offer No. &amp; Dt. : &lt;Bidder to indicate&gt;</b> <b>Bidder's Ref No. &amp; Dt. :&lt;Bidder to indicate&gt;</b> <b>BHEL Enq. No. &amp; date :&lt;Bidder to indicate&gt;</b>					
<b>A MAIN OFFER</b>					
<b>A.1. MATERIAL SUPPLY-PUMP</b>					
	Horizontal, centrifugal, multi stage, Barrel casing design pump complete with all accessories as per Specification.	2	Set		
<b>A.2 MATERIAL SUPPLY-MOTOR</b>					
	Suitable drive motor complete with terminal box, canopy, space heater, cable glands, earthing lugs and all other accessories required as per specification.	2	Set		
<b>A.3 Commissioning spares</b>					
	Commissioning spares as per manufacturer's recommendation. Minimum 1 Set of O rings & gaskets for each pump & drive assembly, and 1 set of spare strainer elements for each pump 1 set stands for requirement for one no. of pump and drive assembly Bidder to furnish the list along with the offer. <b>(Ref. Note-6)</b>	2	Set		
<b>A.4 Special tools &amp; tackles</b>					
	Special tools & tackles as per manufacture recommendations. 1 set standas for requirement for each pump, drive and other accessories. Bidder to furnish the list along with offer	1	Set		
<b>A.5 Mandatory Spares:</b> <b>Note:(1 set stands for quantity required for the replacement of one pump)</b>					
	<b>Instrumentation:</b> <b>i) Pressure Gauges &amp; Differential Pressure Gauges:</b> 20% (Subject to min. of 1) of each type, range, material of construction and rating, whichever is higher.				
	<b>ii) Temperature Gauges:</b> 20% (Subject to min. of 1) of each type /range of Temperature Gauges with Thermowell, whichever is higher				
	<b>iii) Level Gauges:</b> A) For transparent gauges, 20% of illuminators with holder and reflector and 50% of bulbs B) In case of magnetic type level gauges, 1 set of float and 10% of bi-color rollers for each gauge to be provided in addition to above. C) 30% subject to minimum one number of glass of each type, size along with pair of Gaskets ( Cushion & Wet Gaskets ), whichever is higher D) 20% subject to minimum one number of Gaskets for Gauge Cocks/Valves Bonnet / Packing				
	<b>iv) SMART/FF Transmitters for Pressure (including PDT), Flow (DP), Level (DP) including remote seals and Temperature:</b> 15% or minimum of 2, whichever is higher of each type, range (model no.), make and material of construction of whole unit. 100% spare for transmitter manifold O-ring shall be provided.				
	<b>v) Displacer Type Level Transmitters:</b> 10% subject to minimum of 1 no. of each type of complete displacer transmitter head unit including torque tube assembly.				



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	<b>vi) Servo Type Level Gauges:</b> A) 10% or minimum one number of complete electronic unit assembly whichever is higher B) 10% or minimum one number of each type of displacer whichever is higher C) 10% or minimum one number of local indicators, which ever is higher.				
	<b>vii) Temperature Elements:</b> 20% (subject to minimum of 1) of each type, range, length and make of Thermocouple with Thermowell, whichever is higher. Same philosophy to be followed for multi point thermocouples also but without thermowell.				
	<b>viii) RTD's:</b> 20% (subject to minimum of 1) of each length of RTD with Thermowell, whichever is higher.				
	<b>ix) Skin Type Thermocouple:</b> 10% (subject to minimum of 1) of each length & type of skin Thermocouple, whichever is higher.				
	<b>x) Ceramic Thermowell:</b> 1 no. for each Tag.				
	<b>xi) Temperature transmitters:</b> 15% or minimum of 2, whichever is higher of each type, range (model no.), make and material of construction of whole unit. 100% spare for transmitter manifold O-ring shall be provided.				
	<b>xii) Pressure Relief Valves:</b> A) Disc, guide and nozzle: 10% of total quantity of identical pressure relief valves or minimum one number whichever is higher. B) Expansion Bellow: 20% of total quantity of identical pressure relief valves or minimum one number whichever is higher. C) Spring: 10% of total quantity of identical pressure relief valves or minimum one number whichever is higher. D) Gasket Set: 20% of total quantity of identical pressure relief valves or minimum one number whichever is higher.				
	<b>xiii) Junction Box &amp; Cable glands:</b> 10% subject to minimum one no. for each type, size whichever is higher.				
	<b>xiv) Panel mounted instruments:</b> 10% or minimum one no. whichever is higher.				
	<b>xv) Machine Monitoring System:</b> 10% or minimum 2 nos. of each type of probes (vibration, speed, displacement etc.) and transducers/ proximator/ extension cables/ connector protective sleeves etc.				



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<b>B</b>	<b>OPTIONAL ITEMS</b>				
<b>B.1</b>	<b>Initial Spares for BFP</b>				
a	Mechanical seal (complete set)	1	Set		
b	Bearing liners	1	Set		
c	Segmented break-down bushings for stuffing box	1	Set		
d	Fully assembled rotor with impeller	1	Set		
e	Diffusers	1	Set		
f	Impellers wearing ring with necessary screws	1	Set		
g	Balancing device (stationery and rotary parts)	1	Set		
h	Low load recirculation control valve	1	Set		
i	Bearing Assembly for all bearings	1	Set		
j	Spare tubes for oil coolers together with expanders- one tube bundle	1	Bundle		
k	Filter elements	1	Set		
<b>B.2</b>	<b>2 Years Recommended Spares</b>				
	Recommended spares list for two years normal operation along with unit price breakup for Pump, Drive & other accessories. <b>(List with price break up to be enclosed)</b> (1 set stands for quantity required for the replacement of one pump,	As per bidder's recommendation	Set		
<b>B.3</b>	<b>Supervision charges for erection &amp; commissioning at site</b>	--			
a	Travel expenses from vendor works to site and back per visit /person	1	No.		
b	Per day charges per person for supervision of erection & commissioning at site including boarding, lodging, local transportation	1	No.		
	<b>TOTAL</b>				

Notes:

1) **Main offer** consists of those items which will be part of main order after successful bidder is identified. **Optional Items** consists of those items which need to be quoted by bidder but may or may not be ordered by BHEL. Bidders are instructed to provide the pricing details listed under **Main offer** and **Optional items** as per the prescribed format.

2) Prices quoted by bidders for items under **main offer : SI. No. A** will be considered for evaluation of lowest and successful bidder.


3) For all items including Optional items, prices to be furnished in the prescribed format for each individual item. No combined prices or common prices will be accepted and such bids may not be considered for evaluation.

4) Bidder must not change the above indicated item description, quantity & units. He should only fill the unit rates & total price.

5) The price format is only for basic price. All other commercial charges for packing, freight, transportation, insurance, taxes & duties etc., shall be separately indicated.

6) Any commissioning spare required over and above the recommended commissioning spares, during commissioning shall be supplied free of cost by the equipment vendor.

7) Reference document: BHEL spec no. PEMC 05923 Rev 00, its annexes and all the subsequent correspondences.

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8) Regarding sl no A.5, following need to be noted: A) If any of above items indicated by the specified name are not applicable, bidder to offer alternative item serving the same function as per equipment's design and indicate below the item being replaced. B) If bidder is not able to meet the above note, then bidder may mention "Not Applicable". However, if found applicable during detailed engg. stage or alternative item as per equipment design can serve the same function, bidder to supply the specified quantity with out any delivery and commercial implications to BHEL.					