

ENCLOSURE TO TENDER NO. D/IMM/COM3/5461/03/2134/2/2022

Quotation Ref. No.	(vendor to indicate)
Vendor Name	(vendor to indicate)

**I. PRICE FORMAT FOR DEVELOPMENT PHASE**

				Currency	(vendor to indicate)			
A	Non Recurring Cost: (break-up of cost details to be indicated below)							
S/N	Details (Vendor to indicate)	Deliverable to HAL (indicate Yes/No)	Firm and fixed price	HSN / SAC Code	Import content (in foreign currency) (for Indian vendors)	Applicable GST in % (for Indian vendors)	Total cost	
i							0.00	
ii							0.00	
iii							0.00	
iv							0.00	
v							0.00	
vi							0.00	
vii							0.00	
viii							0.00	
ix	Total NRC cost (sum of i) to viii))						0.00	
B	RECURRING COST:							
S/N	Description / Part Number	Qty to be supplied (nos)	Lead time for supply in months from PO date	Unit cost	HSN Code	Import content (in foreign currency) (for Indian vendors)	Applicable GST in % (for Indian vendors)	Total cost
1	MAIN HYDRAULIC PUMP as per HAL technical specification	8	18					0.00
	(Part no. to be indicated by the vendor)							
	Total recurring cost							0.00
	Total Cost for Development Phase (firm and fixed ) (A + B)							0.00

AUTHORISED SIGNATURE

COMPANY SEAL

**Annexure-D**  
**Format-II**

**ENCLOSURE TO TENDER NO. D/IMM/COM3/5461/03/2134/2/2022**

<b>Quotation Ref. No.</b>	<b>(vendor to indicate)</b>
<b>Vendor Name</b>	<b>(vendor to indicate)</b>

**C. TRANSFER OF TECHNOLOGY FOR REPAIR / OVERHAUL**  
**(The individual information called for in Spread sheets C1, C2 and C3)**

Currency **(vendor to indicate)**

**Tentative schedule for placement of PO for setting up facility of ROH shall be Year 2025**

<b>1</b>	<b>HAL, Philosophy of Repair and Overhaul (ROH) is follows:</b>				<b>Vendor Confirmation</b> Yes / No (Provide details )
	i) Testing of end units				
	ii) Isolating faulty modules and assemblies				
	iii) Testing of modules and assemblies				
	iv) Isolating faulty components				
	v) Replacement of faulty components.				
	Vi) Testing of modules and assemblies				
	vii) Assembly and testing of final assembly (End Unit)				
	<b>Vendor to confirm the above methodology would be used by them. If any variation, details to be furnished.</b>				
<b>2</b>	Vendor to provide prices under following head for the full life cycle repair and overhauling of 100 a/c sets of units during the life period of 40 years.				
<b>A</b>	<b>NON RECURRING COST:-</b>				<b>Cost @ 2025 Price level</b>
<b>1</b>	<b>Documentation &amp; Publications for Repair &amp; Overhaul (Refer Note 1)</b>	<b>Basic cost @ 2025 price level</b>	<b>HSN / SAC Code</b>	<b>Prevailing applicable GST in % (for Indian vendors)</b>	
					0.00

2	Special Type Test Equipments along with spares (Refer Note 1 f) (Break-up to be provided at Encl-C1)						0.00
3	Standard Test Equipments (Refer Note 1 g) (Break-up to be provided at Encl-C2)						0.00
4	Training of Indian Specialists						
	Particulars	Man days	Rate/ Man Days @ 2025 price level	Basic cost @ 2025 price level	HSN / SAC Code	Prevailing applicable GST in % (for Indian vendors)	Total Cost @ 2025 price level
	a) In HAL, India			0			0.00
	b) In Vendor's work place			0			0.00
5	Technical Assistance for installation, commissioning of special test equipments, assistance during initial phase for repair activities .  Break-up to be provided for Assistance against each activity as below.						
	Activity	Man days	Rate/ Man Days @ 2025 price level	Basic cost @ 2025 price level	HSN / SAC Code	Prevailing applicable GST in % (for Indian vendors)	Total Cost @ 2025 price level
				0			0.00
				0			0.00
				0			0.00
				0			0.00
* SUB TOTAL (TOTAL NRC AT 2025 PRICE level)							0.00

**Note:**

1	<b>Documentation should include the following:</b>	<b>Vendor's Compliance/Response</b>
	a) Repair and Overhaul Manual consisting of set of drawings, CMM, Process layouts, assembly drawings, circuit diagrams, illustrated parts lists with exploded view, leading particulars of unit, description & function of items, disassembly procedure, cleaning procedure, inspection/checks, list of parts requiring varnishing/plating/NDT etc., acceptance wear limits, fits and clearance during overhaul, rework scheme & deviation standards, list of parts requiring mandatory replacement, assembly and test procedure etc.,	
	b) Acceptance Test Procedure	

	c) List of recommended spares for repair & overhaul of 1 no. of pump for 40 years period. It should include part number, description, qty/set, recommended qty for ROH of 1 a/c sets for the full cycle, Manufacturer's part number/generic number, primary and secondary of supplies.	
	d) List of consumables for repair of 1 no. of pump for 40 years period, indicating part number, description, specification, qty required for repair indicating nearest packing qty, shelf life, procedure for relifing and primary and secondary source of supply.	
	e) Spares price catalogues i.e. List of spares with quantity, lead time and prices is to be indicated at Encl C3. The Supplier has to also confirm uninterrupted supply of spares for lifetime product support. List and norms of consumption of spares with their individual prices are to be quoted in his offer. Vendor to provide the quote at 2025 price level.	
	f) List of special test equipments including test rig for testing of pump to be provided by vendor indicating function end use. Vendor to provide drawing for Manufacture of special test equipment	
	g) List of standard test equipments, brief specification, model no., source of supply etc.	
	(h) Vendor to confirm that any documents pertaining to up-gradation of the system during its course of exploitation will be forwarded.	
2	Vendor to confirm product support for a period of 40 years for the maintenance of items and equipments and resolve technical issues.	
3	Vendor to confirm that the training indicated in the ToT proposal is adequate for HAL and Customer's personnel to carry out the ROH and maintenance activity without any further assistance from the vendor.	
4	Vendor shall provide warranty for the Equipment supplied for a minimum period of 24 months from the date of Commissioning at HAL.	
5	Vendor to confirm that they shall commission at HAL, any Test equipments supplied as per the ROH TOT and certify the Equipment for its desired use.	

**AUTHORISED SIGNATURE**

**COMPANY SEAL**

Quotation Ref. No.	(vendor to indicate)
Vendor Name	(vendor to indicate)

Currency (vendor to indicate)

Price term shall be CIF, Bangalore Basis

C1- Price Break-Up Details Sheet - List of Special To Type Test Equipment required for complete ROH Programme								
Sl. No.	Item Description / Part No.	Qty	Lead Time for Supply	Unit Price @ 2025 price level	HSN Code	Import content per unit (in foreign currency) (for Indian vendors)	Applicable GST in % (for Indian vendors)	Total Price @ 2025 price level
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
TOTAL PRICE OF SPECIAL TO TYPE TEST EQUIPMENT REQUIRED FOR COMPLETE ROH PROGRAMME								0.00

AUTHORISED SIGNATURE

COMPANY SEAL

C2- Price Break-Up Details Sheet - List of Standard Test Equipment required for complete ROH Programme								
Sl. No.	Item Description / Part No.	Qty	Lead time for Supply	Unit Price @ 2025 price level	HSN Code	Import content per unit (in foreign currency) (for Indian vendors)	Applicable GST in %  (for Indian vendors)	Total Price @ 2025 price level
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
								0.00
<b>TOTAL PRICE OF STANDARD TEST EQUIPMENT TO BE SUPPLIED BY VENDOR FOR COMPLETE ROH PROGRAMME</b>								0.00

**COMPANY SEAL**

[illegible]

**COMPANY SEAL**

**ENCLOSURE TO TENDER NO. D/IMM/COM3/5461/03/2134/2/2022**

<b>Quotation Ref. No. :</b>	(vendor to indicate)
<b>Vendor Name :</b>	(vendor to indicate)

**E. TRANSFER OF TECHNOLOGY FOR MANUFACTURING OF ITEMS. -RECURRING CHARGES**

**This proposal will be utilised by HAL at appropriate time for catering to Series production requirement.**

	<b>Currency</b>	(vendor to indicate)
<b>Tentative schedule for placement of PO for Outright purchase &amp; setting up Manufacturing facility shall be Year 2025 for delivery to commence from 2026.</b>		

Vendor to fill in the highlighted boxes

A price variation formula has to be as per format given below : (in line with sl.no.17 of Annexure-C)						
$P = P_o ( A + BL/Lo + C M/Mo)$						
Vendor to indicate the following:						
A (not less than 0.15)						
B						
C		Sum of A + B + C shall be equal to 1.				
Average index for the following for 5 years to be given.						
	2022	2021	2020	2019	2018	
Average Labour Index						
Average Material Index						
The Maximum annual escalation(cap) applicable (percentage) with the above price variation formula to be indicated.		CAP (ex: 2% Should be entered as 0.02)				

Recurring cost for Phase 0 (Outright supply)						
Lead time for delivery of the units in months from the date of placement of order by HAL	(Vendor to indicate interms of weeks or months)					
Year of Delivery	A	2026	2027	2028	2029	2030



Qty to be delivered by vendor	B	10				
Unit price at 2023 price level	=C					
Import content in C (in foreign currency) (for Indian vendors)	D					
Escalation factor (1+ CAP)(A-2023)	E	1.000000				
Unit price at point of incurrence (C x E)	F	0				
Total price (F x B)	G	0.00				
Applicable GST in % (for Indian vendors)	H					
Total cost for Phase -0 ( G + G x H)	J	0.00				
<b>Total cost for Phase-0 (Sum of J)</b>	Ph-0	0.00				

Recurring cost for Phase 1 (SKD)						
Year of Delivery	A	2026	2027	2028	2029	2030
Qty to be delivered by vendor / produced by HAL (nos)	K	10				
Unit price of Vendor supplied SKD Kit at 2023 price level	L1					
Import content in L1 (in foreign currency) (for Indian vendors)	M					
Unit price of HAL work share at 2023 price level	L2					
Escalation factor (1+ CAP)(A-2023)	D	1.000000				
L1 at point of incurrence (L1 x D)	N1	0.00				
L2 at point of incurrence (L2 x D)	N2	0.00				
Total price= ( N1 + N2) X K	O	0.00				

Applicable GST- in value (for Indian vendors) which shall be applicable on L1 <b>Note:</b> Since, single HSN code for the kits may not be unique, vendor shall provide the total GST pertaining to the kits supplied by the vendor.	P1					
Applicable GST- in value (for Indian vendors) which shall be applicable on L2. <b>Note:</b> Since, single HSN code for the kits may not be unique, vendor shall provide the total of GST pertaining to the kits to be arranged by HAL.	P2					
Total price - with GST (O + P1 + P2 )	Q	0.00				
Labour hours per unit included in L2						
Material cost per unit included in L2 at 2023 price level						
<b>Total cost for Phase-1 (SKD)</b>	Ph-1	0.00				
<b>Recurring cost for Phase 2 (CKD)</b>						
Year of Delivery	A	2026	2027	2028	2029	2030
Qty to be delivered by vendor / produced by HAL (nos)	R	10				
Unit price of Vendor supplied CKD Kit at 2023 price level	S1					
Import content in S1 (in foreign currency) (for Indian vendors)	T					
Unit price of HAL work share at 2023 price level	S2					
Escalation factor (1+ CAP)(A-2023)	D	1.000000				
S1 at point of incurrence (S1 x D)	U1	0.00				
S2 at point of incurrence (S2 x D)	U2	0.00				
Total price= ( U1 + U2) X R	V	0.00				
Applicable GST- in value (for Indian vendors) which shall be applicable on S1 <b>Note:</b> Since, single HSN code for the kits may not be unique, vendor shall provide the total GST pertaining to the kits supplied by the vendor.	W1					

Applicable GST- in value (for Indian vendors) which shall be applicable on S2. <b>Note:</b> Since, single HSN code for the kits may not be unique, vendor shall provide the total of GST pertaining to the kits to be arranged by HAL.	W2					
Total price - with GST ( V + W1 + W2 )	X	0.00				
Labour hours per unit included in S2						
Material cost per unit included in S2 at 2023 price level						
<b>Total cost for Phase-2 (CKD)</b>	Ph-2	0.00				
<b>Recurring cost for Phase 3 (Raw Material phase)</b>						
Year of Delivery	A	2026	2027	2028	2029	2030
Qty to be delivered by vendor / produced by HAL (nos)	Y	10	40	40	40	40
Unit price of Vendor supplied Kit at 2023 price level	Z1					
Import content in Z1 (in foreign currency) (for Indian vendors)	AA					
Unit price of HAL work share at 2023 price level	Z2					
Escalation factor (1+ CAP)(A-2023)	D	1.000000	1.000000	1.000000	1.000000	1.000000
Z1 at point of incurrence (Z1 x D)	AB1	0.00	0.00	0.00	0.00	0.00
Z2 at point of incurrence (Z2 x D)	AB2	0.00	0.00	0.00	0.00	0.00
Total price= (AB1 + AB2) x Y	AC	0.00	0.00	0.00	0.00	0.00
Applicable GST- in value (for Indian vendors) which shall be applicable on Z1 <b>Note:</b> Since, single HSN code for the kits may not be unique, vendor shall provide the total GST pertaining to the kits supplied by the vendor.	AD1					
Applicable GST- in value (for Indian vendors) which shall be applicable on Z2. <b>Note:</b> Since, single HSN code for the kits may not be unique, vendor shall provide the total of GST pertaining to the kits to be arranged by HAL.	AD2					
Total price - with GST (AC + AD1 + AD2 )	AE	0.00	0.00	0.00	0.00	0.00

Labour hours per unit included in AB2						
Material cost per unit included in AB2 at 2023 price level						
<b>Total cost for Phase-3 (Raw material phase)</b>	Ph-3	0.00				
<b>Total Recurring cost for TOT Manufacturing (Ph-0 + Ph-1 + Ph-2 + Ph-3)</b>		0.00				

**Note: In case of change / shift in requirement and for requirement from year 2031 onwards, the unit price shall be escalated as per the agreed escalation formula & cap on escalation.**

**AUTHORISED SIGNATURE**

**COMPANY SEAL**

**ENCLOSURE TO TENDER NO. D/IMM/COM3/5461/03/2134/2/2022**

<b>Quotation Ref. No. :</b>	(vendor to indicate)
<b>Vendor Name :</b>	(vendor to indicate)
<b>E. TRANSFER OF TECHNOLOGY FOR MANUFACTURING OF ITEMS. - NON RECURRING COST</b> <u>(The individual information called for in Spread sheet E1 as detailed below.</u> <u>Please ensure all those spread sheets are filled )</u> This proposal will be utilised by HAL at appropriate time for catering to Series production requirement.	
	<b>Currency</b> (vendor to indicate)
<b>Tentative schedule for placement of PO for setting up Manufacturing facility shall be Year 2025 .</b>	

S/N.	Description No. of a/c sets in the Phases	Phase-1 (SKD) 10 Nos (5a/c sets)			Phase-2 (CKD) 10 Nos (5a/c sets)			Phase-2 (RM ) 170 Nos (85 a/c sets)			Total 190 Nos (95 a/c sets)
		NRC @ 2025 price level			NRC @ 2025 price level			NRC @ 2025 price level			Total NRC @ 2025 price level
1	Tooling & Test Equipment (Refer Note-3) (Break-up to be provided at <b>Encl-E1</b> )	0.00			0.00			0.00			0.00
		(No overlap with items covered under ToT for ROH. Only incremental items w.r.to TOT for ROH to be quoted))			(No overlap with items covered under ToT for ROH & Phase-1. Only incremental items w.r.to ToT for ROH & Phase 1 to be quoted)			(No overlap with items covered under ToT for ROH, Phase 1, Phase2. Only incremental items w.r.to ToT for ROH & Phase 1&2 to be quoted)			
2	Training & Technical Assistance (remote and with deputation at HAL premises) (Details to be provided at Note-4 below in the Compliance statement)	Basic cost @ 2025 price level	HSN / SAC Code	Prevailing applicable GST in % (for Indian vendors)	Basic cost @ 2025 price level	HSN / SAC Code	Prevailing applicable GST in % (for Indian vendors)	Basic cost @ 2025 price level	HSN / SAC Code	Prevailing applicable GST in % (for Indian vendors)	
	a) In HAL, India										0
	b) In Vendor's work place										0
3	Technical Documentation (Refer Note-5)										0
SUB-TOTAL (Total NRC AT 2025 price level )											0.00

<b>Rate per Man day of technical assistance on ad-hoc basis.</b>	
<b>HSN / SAC Code</b>	

Prevailing applicable GST in % (for Indian vendors)	
--	--

Note:		Vendor's Compliance
1	Kit breakdown and itemised prices of SKD in phase-1, CKD in phase-2 and of Raw Materials and BOIs in Phase-3 to be provided by vendor matching with the prices currently quoted during finalisation of the contract for Phase-0, Phase-1, Phase-2 or Phase-3 as applicable.	
2	<b>During phase-2, i.e, Raw material phase, vendor to ensure that HAL work content shall be more than or equal to 50% by value of the unit price of each Pump.</b>	
3	Test Rig for testing of Pump, List of Jigs, Test Equipment, Standard, Rigs required for Components, Accessories, Modules, Fixtures & Special Tools (along with associated itemised prices matching with the prices currently quoted) should be provided during finalisation of the contract for Phase-0, Phase-1, Phase-2 or Phase-3 as applicable.	
4	<p>a. Vendor to indicate Total no of training man days &amp; rate per man day with the following details:</p> <p><b><u>At Vendor's work place:</u></b></p> <p>i) No. of Personnel to be trained :</p> <p>ii) Duration of the training:</p> <p>iii) Cost for the training:</p> <p><b><u>At HAL's work place:</u></b></p> <p>i) No. of Personnel to be trained :</p> <p>ii) Duration of the training:</p> <p>iii) Cost for the training:</p> <p>b. Vendor to confirm that the training indicated in the ToT proposal is adequate for HAL to carry out the Mfg activity without any further assistance from the vendor.</p>	
5	Vendor to confirm that within the quoted price, a comprehensive set of documentation comprising of set of drawings, CMM, Process layouts, etc., will be supplied to HAL in order to ensure that HAL is enabled to manufacture the LRUs, Modules, etc., proposed to be within HAL's work share.	
6	Vendor to confirm that the supply lead-time against each item has been indicated in the proposal.	
7	Vendor to confirm that the technical clarification regarding material, process, assembly, testing etc. as may be required by HAL during the period of engagement shall be provided free of charges.	

**AUTHORISED SIGNATURE**

**COMPANY SEAL**

Quotation Ref. No.	(vendor to indicate)
Vendor Name	(vendor to indicate)

Currency (vendor to indicate)

E1. Price Break-Up Details Sheet - List of Tooling & Test Equipment required for Mfg Programme phase wise							
Sl. No.	Item Description / Part No.	Qty. (A)	Unit Price @ 2025 price level (B)	HSN Code	Import content per unit (in foreign currency) (for Indian vendors)	Applicable GST in % (for Indian vendors)	Total Price @ 2025 price level (A x B)
PHASE-1 - SKD							
							0.00
							0.00
							0.00
							0.00
							0.00
							0.00
							0.00
							0.00
							0.00
							0.00
SUB-TOTAL FOR PHASE1 - SKD							0.00
PHASE-2 - CKD							
							0.00
							0.00
							0.00
							0.00
							0.00
							0.00
							0.00
							0.00

							0.00
							0.00
SUB-TOTAL FOR PHASE2 - CKD							0.00
PHASE-2 -RAW MATERIAL							
							0.00
							0.00
							0.00
							0.00
							0.00
							0.00
							0.00
							0.00
							0.00
							0.00
							0.00
SUB-TOTAL FOR PHASE2 - RAW MATERIAL							0.00
TOTAL PRICE FOR TOOLING & TEST EQUIPMENT REQUIRED FOR MFG PROGRAMME PHASE WISE							0.00

AUTHORISED SIGNATURE

COMPANY SEAL



## ENCLOSURE TO TENDER NO. D/IMM/COM3/5461/03/2134/2/2022

Quotation Ref. No. :	(vendor to indicate)
Vendor Name :	(vendor to indicate)

**F. Evaluation Statement Format**

	Currency	(vendor to indicate)
Sl. No.	Description	Total price
1	TOTAL PRICE FOR DEVELOPMENT PHASE (as per price format I) (Prices firm and fixed )	0.00
2	TOTAL PRICE FOR TRANSFER OF TECHNOLOGY FOR REPAIR / OVERHAUL (as per price format II) (Prices at 2025 price level )	0.00
3	TOTAL PRICE FOR TRANSFER OF TECHNOLOGY FOR MANUFACTURING OF ITEMS. -RECURRING COST (as per price format III) (Prices on Incurrence basis)	0.00
4	TOTAL PRICE FOR TRANSFER OF TECHNOLOGY FOR MANUFACTURING OF ITEMS. -NON RECURRING COST (as per price format IV) (Prices at 2025 price level )	0.00
	<b>GRAND TOTAL</b>	<b>0.00</b>

AUTHORISED SIGNATURE

COMPANY SEAL

**ENCLOSURE TO TENDER NO. D/IMM/COM3/5461/03/2134/2/2022**

<b>Quotation Ref. No. :</b>	<b>(vendor to indicate)</b>
<b>Vendor Name :</b>	<b>(vendor to indicate)</b>

**LONG TERM REPAIR AGREEMENT (LTRA) PRICES**

<b>Sl. No.</b>	<b>Nature of Repair / Overhaul</b>	<b>Basic repair / Overhaul charges in % of unit price</b>	<b>HSN / SAC Code</b>	<b>Prevailing applicable GST in % (for Indian vendors)</b>
1	No Fault Found (NFF)	(vendor to indicate in % only)		
2	Minor Repair (Repair cases with no replacement of any major sub-assembly, item, component etc.)	(vendor to indicate in % only)		
3	Major Repair (Repair cases with replacement of at least one (01) major sub-assembly, item, component etc.)	(vendor to indicate in % only)		
4	Overhaul charges	(vendor to indicate in % only)		

**AUTHORISED SIGNATURE**

**COMPANY SEAL**