

- 6) For speedy response, any clarification / query regarding this tender shall be forwarded to Pr. Administrator, NPE through e-mail address only [pradmnpnpe@gmail.com](mailto:pradmnpnpe@gmail.com). Please contact at the following telephone number for any additional information.

### **TECHNICAL SPECIFICATIONS, SCHEDULE OF REQUIREMENTS**

- 7) Quotation must be supported by technical literature / brochures of product / accessories, catalogue (drawing, dimensions, parts # etc.) clearly indicating the actual specifications and make of the subject items quoted. The offer must strictly be according to attached specifications.
- 8) Warranty: 5 ~ 10 Years: Warranty period as per enclosed tender specifications.

Technical Literature and brochure are required with each bid as demanded in specifications and in case of supply; two sets of manuals etc., as demanded in specification under head "Manuals" in English language will be provided on free of cost basis.

- Operator / User Manual.
- Service Manual consisting of working principal, troubleshooting chart.
- All Electrical / Electronic / Mechanical schematic circuit diagrams.

### **BID DATA SHEET (BDS)**

- 9) **PAYMENT TERMS:**  
100 % payment will be made through crossed cheque in PKR
- 10) A comparison sheet of the offered specifications with our required specifications along with reference to the relevant page of broucher of the offered model shall be prepared by the manufacturer / supplier only and be attached with quotation. Comparison sheet shall not be deemed as compliance sheet only. Any data written in comparison sheet shall strictly be in accordance with the data of offered model given in the broucher / literature of offered model.
- 11) Detail list (name and quantity) of recommended accessories for subject items manufacturer shall be attached with technical proposal.

### **EVALUATION CRITERIA**

- i. Conformance to technical specifications.
- ii. At least 01 trained engineer with training certificate
- iii. Supplier should have good repute and experience certificate (at least 10-15 installation nationwide with feedback from already installed split A.C's)
- iv. Authorized distributor certificate issued by manufacturer.
- v. Financially Lowest Rate Basis.

**DIRECTORATE GENERAL OF NUCLEAR POWER ENGINEERING**  
**P.O. BOX NO. 3286, ISLAMABAD**

Ref No. 45(1)2022-Ad-III

Dated: \_\_\_\_\_

M/s. \_\_\_\_\_  
\_\_\_\_\_

**SUBJECT: TENDER DOCUMENTS FOR PURCHASE OF 65 NOS. OF SPLIT AIR CONDITIONS (INVERTER) 1.5 TONS, 2 TONS AND 4 TONS / HVAC ITEMS / ELECTRICAL ITEMS**

Dear Sir,

Quotations in separate sealed envelope containing, technical proposals and financial proposal separately according to single stage bidding procedures (technical specification and financial proposal should be enveloped separately and packed in one envelope) are invited **from security cleared suppliers / firms on FOR basis for supply, installation / commissioning of the subject items**. Detailed technical specifications are attached. Bids can be submitted by Hand in **NORI Cancer Hospital, Hanna Road, Sector: G-8/3, Islamabad** on or before **06-07-2026 (1200 hrs, Monday)** or by post addressed to Pr. Administrator, NPE, P.O. Box. No. 3286, Islamabad. **The supplier must ensure that quotation has been reached before closing date of submission.**

2. Quotations will be opened on **15-07-2026, Wednesday** at 1000 hrs at **NORI Cancer Hospital, Hanna Road, Sector: G-8/3, Islamabad**. Technical & Financial proposals of technically acceptable bids will be opened after the finalization of technical evaluation.

**INSTRUCTIONS TO BIDDERS**

The firm will submit only one quotation against one tender document. For alternate quotations, if any, the firm will purchase separate tender documents and **also will submit bid security along with each technical offer.**

- 1) Main and individual envelope of technical and financial proposal shall bear tender reference and shall be marked clearly in bold letter.
- 2) Bid should be valid for **120 days** from the date of opening of technical bids.
- 3) **No tender will be considered if:**
  - a. It is un-sealed or received after due date and time.
  - b. Bid and related documents are not signed.
  - c. The bid is ambiguous or incomplete.
  - d. Items offered differ in description etc. from those required.
  - e. Without bid money.
  - f. Bids are not in line with instruction(s) mentioned above.
- 4) Any bid found substantially non-responsive will be rejected. Buyer may seek such clarifications as allowed under rules before acceptance / rejection of any bid. No clarification will be accepted after the bid has been rejected and such rejection communicated to bidder.
- 5) The subject items or any of its part can neither be quoted nor supplied from any Indian or Israeli based factory / manufacturer and version must be quoted with detailed specification of latest available model of parameter of hardware and software etc.

## **STANDARD FORMAT**

- 12) Technical proposal shall be accompanied by a bid security of fixed amount **Rs. 1,000/-** in the form of pay order / bank draft in the name of "Earnest Money Account (DGNPE)
- 13) Summary of quoted prices as per below format shall also be given in the financial proposal.

<b>Sr. #</b>	<b>Description</b>	<b>Unit Price</b>	<b>Total Price</b>
1	Installation and commission as well as FOR price for split A.C's and accessories along with warranty / guarantee as detailed given in attached specification inclusive of all applicable taxes (if any)		
<b>Grand Total PKR</b>			

- 14) Mentioned separately list of consumables and local supplied items if involved.

## **SPECIAL CONDITIONS OF CONTRACT (SCC)**

- 15) In case award of contract, successful bidder will have to submit performance security (10% of total cost excluding bid-amount) in PKR in the form of pay order / bank draft / bank guarantee along with order acknowledgement. Amount of bid security will be adjusted in performance security which will be retained till the performance of successful supply of required items, installation and commission of products of the subject items.

**Amount of Performance Security = 10% of the total contract value – Amount of Bid Security**

Performance Security must be valid till the performance of successful supply of required items, installation and commission of products. Extendable Performance Security will not be accepted.

- 16) Performance Security excluding Bid Security will be released after completion of supply and installation of works. Whereas, bid security amount shall be released after completion of one-year period (12 months).
- 17) Any relevant procedure not mentioned in this document, will be followed according to the provisions of standard bidding document approved by PPRA.
- 18) The tender opening authority reserves the right to accept or reject any or all the offers an any time.

  
**MUHAMMAD SULEMAN**  
Pr. Administrator, NPE  
P.O. Box: 3286, Islamabad  
Phone No. 051-9321393  
Email: pradmnnpe@gmail.com

**SCOPE OF WORK**  
**GENERAL TERMS AND CONDITIONS**

1. The scope of work of the supplier shall cover supply, installation, commissioning, first operation and training of quoted machines / equipment at site.
2. The supplier shall include all essential accessories and auxiliaries necessary for complete functionality of the offered machine / equipment which are not specifically mentioned here but are otherwise required to complete the functioning of the equipment offered in every respect for its satisfactory performance and safe operation.
3. The required foundation material (viz. foundation bolt / leveling wedge / anchor system etc) shall be included as essential part of supply.
4. The supplier shall provide the list of consumables, spares and tools, standard and optional accessories while submitting the quotation.
5. Final acceptance will be based on inspection on site by purchaser or his designee based on successful commission of Air Conditioners.
6. Supplier shall be responsible to specify any special environmental condition required for A.C operation in advance while submitting the quotation.
7. All machines (A.C's) shall equip with short-circuit and overload protection devices (where applicable)
8. All technical documentation, machine specification plates, control panel, software (where applicable) or any other should be in English Language.
9. Supplier must provide detailed specifications, literature and catalogues including following at the time submitting quotations:
  - a. Total power (kW), Power Supply (V, Ph and Hz), All Machines should be on 50Hz supply systems+
  - b. Weight of A.C's with all accessories
  - c. Floor space required and foundation details
  - d. List of standard, optional and special accessories

**TECHNICAL DATA SHEET FOR INVERTER SPLIT AC (INVERTER) UNITS**

**ANNEXURE-A**

Sr. #	Description	1.5 Ton Capacity		02 Ton Capacity	
		Qty:	38 Sets	Qty:	26 Sets
1	Type	Wall Mounted (Heat and Cool Reversible)		Wall Mounted (Heat and Cool Reversible)	
2	Capacity Cooling (BTU / Hr) H/S/L	21837		26950	
3	Capacity Heating (BTU / Hr) H/S/L	18000		25900	
4	COP for heating (W/W)	3.7		3.9	
5	COP for Cooling (W/W)	3.7		3.9	
6	Rated Current Cooling (A)	7		9	
7	Rated Current Heating (A)	6.5		8	
8	Max Current (A)	10.5		14	
9	Rated Input Power Cooling (Watt)	1540		1946	
10	Rated Input Power Heating (Watt)	1426		1804	
11	Max Input Power Cooling (Watt)	2000		3200	
12	Max Input Power Heating (Watt)	1850		2350	
13	Voltage Rang (V)	150-264		150-264	
14	Refrigerant Type	R32 or Latest Refrigerant		R32 or Latest Refrigerant	
15	Refrigerant Quantity (KG)	0.68 KG		0.95 KG	
16	Defrosting Control	Yes (Automatic)		Yes (Automatic)	
17	Indoor Air Flow Volume (m3/h)	1000/850/760/580/520/450/350		1250/1100/1050/950/900/850/800	
18	DC Inverter Operation	Yes		Yes	
19	Cooling Amb Range °C	18 ~ 54		18 ~ 54	
20	Heating Amb Range °C	-7 ~ 24		-7 ~ 24	
21	Compressor Climate Type	T3		T3	
22	Warranty for Parts	5		5	
23	Warranty for PCB				
24	Warranty for Evaporator				
25	Warranty for Compressor	10		10	

**GENERAL INSTRUCTION:**

Supply, installation, testing and commissioning of Wall-Mounted / Floor Standing decorative, remote controlled split air-conditioning units (Heat & Cool Reversible) units with ozone friendly new refrigerant (R-32 or latest refrigerant). The condensing unit's coils may be factory coated with anti-corrosive coating suitable for harsh environment. Each unit shall include the cost of copper tubing / piping with insulation, power and control wiring, drain pipe, dura duct etc, up-to 15 feet distance, all standard controls, safeties, wall mounted / floor standing metallic epoxy painted frames, hangers, support etc. complete in all respect, specified in the specifications.

**TECHNICAL DATA SHEET FOR INVERTER SPLIT AC (INVERTER) UNITS****ANNEXURE-B**

Sr. #	Description		Unit	Floor Standing 4 Ton AC Wall-Mounted / Floor Standing	
				Qty.	01 Set
1	Power Supply	Rated Voltage	V~	220V	
2		Rated Frequency	Hz	50	
3		Phases	--	1	
4	Min / Max. Voltage		V	160 / 240	
5	Cooling Capacity		Btu/h	48792/46062/5391	
6	Heating Capacity		Btu/h	56980/49474/12454	
7	Cooling Power Input		W	5180/4800/800	
8	Heating Power Input		W	5200/4650/750	
9	Indoor	Air Flow Volume	m <sup>3</sup> /h	1850	
10		Fan Type	--	Vertical Cross Flow Fan	
11		Evaporator Form	--	Aluminum Fin-copper Tube	
12		Dimension (WxHxD)	mm	587 x 1882 x 394	
13		Net Weight	Kg	59	
14	Outdoor	Compressor Manufacturer	--	Best Quality	
15		Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	1800	
16		Condenser Form	--	Aluminum Fin-copper Tube	
17		Cooling Operation Temp Range	°C	18 ~ 54	
18		Heating Operation Temp Range	°C	-7 ~ 24	
19	Refrigerant		--	R-32 or latest refrigerant	
20	Warranty for Parts		5	5	
21	Warranty for PCB				
22	Warranty for Evaporator				
23	Warranty for Compressor		10	10	

**GENERAL INSTRUCTION:**

Supply, installation, testing and commissioning of Wall-Mounted / Floor Standing decorative, remote controlled split air-conditioning units (Heat & Cool Reversible) units with ozone friendly new refrigerant (R-32 or latest refrigerant). The condensing unit's coils may be factory coated with anti-corrosive coating suitable for harsh environment. Each unit shall include the cost of copper tubing / piping with insulation, power and control wiring, drain pipe, dura duct etc, up-to 15 feet distance, all standard controls, safeties, wall mounted / floor standing metallic epoxy painted frames, hangers, support etc. complete in all respect, specified in the specifications.

**TECHNICAL DATA SHEET REGARDING ELECTRICAL MATERIAL FOR THE  
INSTALLATION OF SPLIT AIR CONDITIONERS**

**ANNEXURE-D**

Sr. #	Items Name	Specification	Qty
1	Molded Case Circuit Breaker	Schneider NSX400N (or equivalent) – MCCB, 160 ~ 400A (Adjustable), 3-Pole	02 nos.
2	Molded Case Circuit Breaker	Schneider NSC100F (or equivalent) – MCCB, 100A (Adjustable), 3-Pole	24 nos.
3	Miniature Circuit Breaker	Schneider Easy9 (or equivalent) – MCB, 20A-(1-Pole)	100 nos.
4	Power Socket with PVC Box	15A 3-Pin	100 nos.
5	Power Cable	Pakistan Cables (or equivalent), 25mm <sup>2</sup> (4-Core) Cu/PVC	300 m
6	Power Cable	Pakistan Cables (or equivalent) 10mm <sup>2</sup> (1-Core) Cu/PVC	4000 m
7	Grounding Cable	Pakistan Cables (or equivalent) 4mm <sup>2</sup> (1-Core) Cu/PVC	2000 m
8	Distribution Box	Powder Coated 16SWG 18" x 24" (complete with accessories)	12 Nos.
9	Distribution Box	Powder Coated 16SWG 36" x 48" (complete with accessories)	02 Nos.
10	Metal Cable Tray	100mm x 100mm Perforated with Cover	100 m

**TECHNICAL DATA SHEET REGARDING ADDITIONAL ACCESSORIES FOR THE  
INSTALLATION OF SPLIT AIR CONDITIONERS**

**ANNEXURE-C**

Sr. #	Description	Qty
1	Copper Pipe 1/2", TROX or Equivalent	620 ft
2	Copper Pipe 1/4" TROX or Equivalent	1200 ft
3	Copper Pipe 5/8" TROX or Equivalent	580 ft
4	Aero Flex 1/2"	620 ft
5	Aero Flex 1/4"	1200 ft
6	Aero Flex 5/8"	580 ft
7	Wrapping Tape	150
8	Insulation Tape	50
9	Copper Flare Nuts 1/2"	68
10	Copper Flare Nuts 1/4"	68
11	Copper Flare Nuts 5/8"	68
12	Copper Union 1/2"	50
13	Copper Union 1/4"	50
14	Copper Union 5/8"	50
15	Ducts UPVC	550 ft
16	GI Brackets 1.5 Ton	20 pairs
17	GI Brackets 2.0 Ton	15 pairs
18	Drain Flexible	1200 ft
19	Drain UPVC Pipe 3/4"	700 ft
20	U PVC Elbow 3/4"	50
21	U PVC Socket 3/4"	50
22	U PVC Tee 3/4"	50
23	PVC Solution	2 kg
24	Rawal Bolts	150
25	Screw	06 Boxes
26	Steel Nail	06 Boxes
27	Refrigerant (R-32 or latest refrigerant) USA	01 Cylinder
28	Cable	370 meter