



ANNEXURE - I TO NIT REF NO-P/E/Pg/YE1/E-5239/2016, DTD-26/05/2016

1 X 370 MW YELAHANKA CCP

PRICE SCHEDULE FOR AIR CONDITIONING SYSTEM - SUPPLY, E&C AND MANDATORY SPARES

INDIAN BIDDER

SUPPLY

ERECTION AND COMMISSIONING

GRAND TOTAL

| SL No | DESCRIPTION OF EQUIPMENT/ ITEM | QTY | UOM | UNIT EX-WORKS PRICE (DULY PACKED) (INR) | TOTAL EX-WORKS PRICE (DULY PACKED) (INR) | ED (INCLUDING CESS) @...% (INR) | CST/VAT @...% AGAINST FORM 'C' /E/II (INR) | FREIGHT CHARGES (INCLUDING SERVICE TAX) @...% OF TOTAL EX WORKS (INR) | TOTAL F.O.R SITE PRICE (INR) | E&C, ACCEPTANCE TEST AT SITE AND PERFORMANCE/ GUARANTEE TESTS CHARGES (INR) | SERVICE TAX @...% (INR) | E&C, ACCEPTANCE TEST AT SITE AND PERFORMANCE/ GUARANTEE TESTS CHARGES INCLUDING SERVICE TAX (INR) | TOTAL LUMP SUM PRICE FOR SUPPLY AND E&C WITH SERVICE TAX. (INR) |
|-------|--|-----|-----|---|--|---------------------------------|--|---|------------------------------|---|-------------------------|---|---|
| | | | | 1 | 2 | 3 | 4 | 5 | 6 = 2+3+4+5 | 7 | 8 | 9 = 7+8 | 10 = 6+9 |
| 1.0 | TOTAL LUMP SUM FIRM PRICES FOR EQUIPMENT & SERVICES AS SPECIFIED, COMPRISING ENGINEERING, DESIGN, MANUFACTURE, INSPECTION & TESTING AT MANUFACTURER'S/SUBVENDOR'S WORKS, PAINTING AT MANUFACTURES WORKS, DULY PACKED FOR TRANSPORTATION, DELIVERY TO SITE, UNLOADING, STORAGE & HANDLING AT SITE, FABRICATION, ERECTION AND COMMISSIONING, PERFORMANCE AND GUARANTEE TESTING, SUBMISSION OF AS BUILT DRAWING, O&M MANUAL, CARRYING OUT ACCEPTANCE TESTS AT SITE, AND FINAL PAINTING OF COMPLETE AIR CONDITIONING SYSTEM ON TURNKEY BASIS AS PER SPECIFICATION PE-TS-409-553-A001 INCLUDING MANDATORY SPARES, SPECIAL TOOL & TACKELS FOR MAINTENANCE, COMMISSIONING SPARES, ALL TAXES, DUTIES ETC. | | | | | | | | | | | | |
| A | AC-Plant-1: CENTRAL CHILLED WATER SYSTEM COMMON FOR MAIN CR AREAS, CER & UPS CHARGER ROOM OF TG BUILDING AND AC AREAS OF SERVICE BUILDING | | | | | | | | | | | | |
| 1 | Microprocessor controlled, water cooled chiller package each of minimum capacity 200TR consisting of Hermetic/ semi - Hermetically sealed Screw type refrigerant compressor operating on R134a/R407C/R410A, refrigerant complete with motor, unit mounted starter, complete with suction and discharge shut off valves, HP / LP cutouts, oil pressure failure switch, gauge panel, automatic capacity control; Condenser, relier valve, chiller, controls such as thermostat/electronic expansion valve, cooling thermostat, antifreeze thermostat, water flow switch, integral refrigerant pipes & fittings, strainer, sight glass, isolating valves, chiller drain valve, chiller insulation, refrigerant piping insulation, first charge of gas and oil, base frames, vibration isolators, integral wiring, unit mounted isolator / fuse switch and other accessories as specified. | 2 | NO | | | | | | | | | | |
| 2 | Sheet metal cabinet type air handling units (double skin as per specification) consisting of chilled water cooling coil, centrifugal blower, TEFC sq cage induction motor, drive set, filters (pre filter), 3 way motorised mixing valve with thermostat controls and other accessories as per specifications to meet the AC load of the main Control Room areas, CER etc. of power house building at 11.5m and kept at 17.0 M floor level as per specification. Fine filter and HEPA Filters shall be provided in Common discharge plenum. | 2 | NO | | | | | | | | | | |
| 3 | Sheet metal cabinet type air handling units (double skin as per specification) consisting of chilled water cooling coil, centrifugal blower, TEFC sq cage induction motor, drive set, filters (pre filter), 3 way motorised mixing valve with thermostat controls and other accessories as per specifications to meet the AC load of the different floors of Service building, Fine Filters in Common discharge plenum for AHUs shall also be included. | 3 | NO | | | | | | | | | | |
| 4 | Fibreglass reinforced plastic (FRP) construction cooling towers complete with fan, motor, FRP basin, nozzles, make-up water & quick fill water connection, Level Switch, drains, piping, valves, strainers, ladder & all accessories as specified. | 2 | NO | | | | | | | | | | |
| 5 | Centrifugal pump sets for condenser water recirculation complete with TEFC motor, & all accessories as specified. | 2 | NO | | | | | | | | | | |
| 6 | Centrifugal pump sets for chilled water recirculation complete with TEFC motor, & all accessories, as specified. | 2 | NO | | | | | | | | | | |
| 7 | Make up water FRP/G.I Storage tank to cooling towers with level switch, pr switch and other accessories as required. Capacity of each tank 8 m3. | 2 | NO | | | | | | | | | | |
| 8 | FRP/G.I Expansion Tank (insulated) for chilled water with all accessories as required, capacity 1 m3. | 1 | NO | | | | | | | | | | |
| 9 | Online Non chemical scale preventer, with all accessories as required to meet system requirements | 1 | NO | | | | | | | | | | |

Signature

| SL No | DESCRIPTION OF EQUIPMENT/ ITEM | QTY | UOM | UNIT EX-WORKS PRICE (DULY PACKED) (INR) | TOTAL EX-WORKS PRICE (DULY PACKED) (INR) | ED (INCLUDING CESS) @...% (INR) | CST/VAT @...% AGAINST FORM 'C' /E/II (INR) | FREIGHT CHARGES (INCLUDING SERVICE TAX) @...% OF TOTAL EX WORKS (INR) | TOTAL F.O.R SITE PRICE (INR) | ACCEPTANCE TEST AT SITE AND PERFORMANCE/GUARANTEE TESTS CHARGES (INR) | SERVICE TAX @...% (INR) | ACCEPTANCE TEST AT SITE AND PERFORMANCE/GUARANTEE TESTS CHARGES INCLUDING SERVICE TAX (INR) | TOTAL LUMP SUM PRICE FOR SUPPLY AND E&C WITH SERVICE TAX. (INR) |
|--------------------------------------|---|------|------|---|--|---------------------------------|--|---|------------------------------|---|-------------------------|---|---|
| | | | | 1 | 2 | 3 | 4 | 5 | 6 = 2+3+4+5 | 7 | 8 | 9 = 7+8 | 10 = 6+9 |
| 10 | Condenser water piping with necessary fittings, strainers, valves including piping from soft water storage tank to humidifiers of AHU room as specified. | 1 | LOT | | | | | | | | | | |
| 11 | Chilled water piping from AC plant to AHU rooms within power house building and in service building complete with valves supports, fittings, strainers, insulation with finish as per specification. | 1 | LOT | | | | | | | | | | |
| 12 | Monsoon reheating/ winter heating kit comprising strip heaters, safety controls, air-stat, contactors, frame work, thermostat & humidistat/ sensors etc. | 1 | LOT | | | | | | | | | | |
| 13 | Pan type humidifier for each AHU room. | 1 | LOT | | | | | | | | | | |
| 14 | Fresh air fan (axial flow type), complete with motor, inlet cone, air filters (Dry panel HDPE filter), dampers etc. | 1 | LOT | | | | | | | | | | |
| 15 | PLC control system as per technical specification for main power house and service building, AC & ventilation system. | 1 | LOT | | | | | | | | | | |
| ITEMS COMMON TO ALL AC PLANTS | | | | | | | | | | | | | |
| 1* | FAN COIL UNIT consisting of chilled water cooling coil, blower, motor, driveset, filters (prefilter), 3way motorised mixing valve with thermostatic controls and other accessories as per specifications | 2 | NO* | | | | | | | | | | |
| a* | 3 TR | | | | | | | | | | | | |
| b* | ZTR | 1 | NO* | | | | | | | | | | |
| c* | 1.5 TR | 1 | NO* | | | | | | | | | | |
| 2* | MS medium class drain piping upto nearest drain point with and without insulation | | | | | | | | | | | | |
| a* | 50 mm | 150 | M | | | | | | | | | | |
| b* | 40 mm | 100 | M | | | | | | | | | | |
| 3* | Fire damper. | | | | | | | | | | | | |
| a* | Fire damper with auto resetting, limit switches, indication lamps etc. | 15 | SQM* | | | | | | | | | | |
| b* | Motorized actuator with single phase power supply for the above fire damper. | 20 | NO* | | | | | | | | | | |
| 4* | Finished GSS ducting fabricated from GSS having zinc coating 275 gms/ m ² ducting complete with hangers/ supports, dampers, grilles, diffusers (with & without VCD) etc. | | | | | | | | | | | | |
| a* | 18G. | 500 | SQM* | | | | | | | | | | |
| b* | 20G. | 550 | SQM* | | | | | | | | | | |
| c* | 22G. | 600 | SQM* | | | | | | | | | | |
| d* | 24G. | 1500 | SQM* | | | | | | | | | | |
| e* | Supply air diffuser with VCD (Extruded Aluminium). | 30 | SQM* | | | | | | | | | | |
| f* | Return air diffuser without VCD (Extruded Aluminium). | 50 | SQM* | | | | | | | | | | |
| g* | GI Volume control dampers for Duct | 10 | SQM* | | | | | | | | | | |
| 5 | Acoustic insulation of the first 6 of ducting from AHU outlets. | 1 | LOT | | | | | | | | | | |
| 6* | Thermal insulation of supply air duct & return air duct with finish as specified. | 3150 | SQM* | | | | | | | | | | |
| 7 | Field instruments like pressure gauge, temperature gauge, pressure switch, differential pressure switch, flow switch, flow meters, and other required instruments as per specifications. | 1 | LOT | | | | | | | | | | |
| 8* | fibre optic cable | 250 | Rmt* | | | | | | | | | | |
| AC System for Aux. building | | | | | | | | | | | | | |
| 1* | Air Cooled PAC-Unit complete with all accessories as specified. The package unit shall be complete with all accessories like duct heaters, pan humidifier, filters, acoustic insulation of duct for 5m from PU, drain piping with insulation upto nearest drain, required instrumentation etc | | | | | | | | | | | | |
| (a)* | 10 TR net capacity | 1 | NO* | | | | | | | | | | |
| (b)* | 15TR net capacity | 1 | NO* | | | | | | | | | | |
| 3* | Air-cooled split type AC units consisting of outdoor unit (having compressor condenser coil with fan and motor), indoor unit (having evaporator coil,filter, fan with motor), inter connecting refrigerant piping as per site requirement & fittings with insulation, cordless remote, electrical power cord upto the nearest available point along with Isolator/MCB, fixing frame for indoor & out door unit, stabilizer etc. (Minimum BEE Rating 5 Star for non ductable units). | | | | | | | | | | | | |

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| SL No | DESCRIPTION OF EQUIPMENT/ ITEM | QTY | UOM | UNIT EX-WORKS PRICE (DULY PACKED) (INR) | TOTAL EX-WORKS PRICE (DULY PACKED) (INR) | ED @...% (INR) | CST/VAT @...% AGAINST FORM 'C' /E/II (INR) | FREIGHT CHARGES (INCLUDING SERVICE TAX) @...% OF TOTAL EX WORKS (INR) | TOTAL F.O.R SITE PRICE (INR) | E&C, ACCEPTANCE TEST AT SITE AND PERFORMANCE/ GUARANTEE TESTS CHARGES (INR) | SERVICE TAX @...% (INR) | E&C, ACCEPTANCE TEST AT SITE AND PERFORMANCE/ GUARANTEE TESTS CHARGES INCLUDING SERVICE TAX (INR) | TOTAL LUMP SUM PRICE FOR SUPPLY AND E&C WITH SERVICE TAX. (INR) |
|--------------|---|-----|-----|---|--|----------------|--|---|------------------------------|---|-------------------------|---|---|
| | | | | 1 | 2 | 3 | 4 | 5 | 6 = 2+3+4+5 | 7 | 8 | 9 = 7+8 | 10 = 6+9 |
| (a)* | 5.0 TR capacity (ductable type, 415 V, 3 phase with isolation switch). | 2 | No* | | | | | | | | | | |
| (b)* | 2.0 TR capacity (non-ductable type, 240 V, 1 phase isolation switch) with isolation switch, i.e MCB of suitable rating as specified. | 20 | No* | | | | | | | | | | |
| (c)* | 1.5 TR capacity (non-ductable type, 240 V, 1 phase isolation switch) with isolation switch, i.e MCB of suitable rating as specified. | 30 | No* | | | | | | | | | | |
| 4* | Manually operated, platform trolley of 1 Ton capacity with base area 2m x 1.5m | 2 | No | | | | | | | | | | |
| 5 | Total lumpsum price for special tools & tackles for maintenance inclusive of packing forwarding, transportation up to site, etc. (Bidder shall submit item-wise price break-up). | 1 | LOT | | | | | | | | | | |
| 6 | Total lumpsum price for commissioning spares inclusive of packing forwarding, transportation up to site, etc. (Bidder shall submit item-wise price break-up). | 1 | LOT | | | | | | | | | | |
| 7 | Total lumpsum price for Mandatory Spare for air conditioning inclusive of packing forwarding, transportation up to site, etc. (Bidder to submit item-wise price break-up). | 1 | LOT | | | | | | | | | | |
| 8 | Any other item not indicated above, but required to make the system complete in all respects. | 1 | LOT | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| 1 | The bidder shall furnish unit rates for variable item (marked *) for necessary adjustment (plus or minus) variation during detailed engg. stage. The unit rates quoted above shall be considered and no separate unit rates shall be quoted. Unit rates shall be valid throughout the contract. | | | | | | | | | | | | |
| 2 | Bidder must submit prices in the Pro Forma duly filled in signed and stamped on every page without any ambiguity. The price shall be written against each item. Term such as "refer covering letter" etc. are not acceptable. Extra sheet may be attached if the space provided is not sufficient | | | | | | | | | | | | |
| 3 | Price format shall not be changed by the bidder as the bidder may get disqualified by doing so. | | | | | | | | | | | | |

Signature



ANNEXURE - II TO NIT REF NO-PE/PG/YE1/E-5239/2016, DTD-26/05/2016
1 X 370 MW YELAHANKA CCPP

PRICE SCHEDULE FOR AIR CONDITIONING SYSTEM - MANDATORY SPARES

MANDATORY SPARES SUPPLY

| SL No | DESCRIPTION OF EQUIPMENT/ ITEM | QTY/UOM | UNIT EX- WORKS PRICE (DULY PACKED) (INR) | TOTAL EX- WORKS PRICE (DULY PACKED) (INR) | ED (INCLUDING CESS) @...% (INR) | CST/VAT @...% AGAINST FORM 'C' /E/II (INR) | FREIGHT CHARGES (INCLUDING SERVICE TAX) @...% OF TOTAL EX WORKS (INR) | TOTAL F.O.R SITE PRICE (INR) |
|-------|---|-------------------|---|--|--|--|--|------------------------------------|
| A | MECHANICAL | | | | | | | |
| 1.0 | Vapour Compression chiller | | | | | | | |
| 1.1 | Oil filter "O" ring | 1 set | | | | | | |
| 1.2 | Refrigerant filter | 1 set | | | | | | |
| 1.3 | Master solenoid valve | 1 No | | | | | | |
| 1.4 | Master solenoid valve coil | 1 set | | | | | | |
| 2.0 | Refrigerant condenser | | | | | | | |
| 2.1 | Gasket | 1 set | | | | | | |
| 3.0 | Refrigerant chiller | | | | | | | |
| 3.1 | Gasket | 1 set | | | | | | |
| 4.0 | Air Handling Unit | | | | | | | |
| 4.1 | V-Belt for AHU blower | 1 set | | | | | | |
| 4.2 | AHU blower bearing | 1 set | | | | | | |
| 4.3 | Filters | 1 sq m / AHU | | | | | | |
| 4.4 | Motor for each size of AHU | 1 no. | | | | | | |
| 5.0 | Induced draft FRP cooling tower | | | | | | | |
| 5.1 | Fan impeller | 1 no. | | | | | | |
| 5.2 | Spray Nozzles | 1 set | | | | | | |
| 6.0 | Horizontal centrifugal pump (for each model) | | | | | | | |
| 6.1 | Impeller | 1 no of each type | | | | | | |
| 6.2 | Shaft Sleeve | 1 set | | | | | | |
| 6.3 | Bearings | 1 set | | | | | | |
| 6.4 | Motor Bearing | 1 set | | | | | | |

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| MANDATORY SPARES SUPPLY | | | | | | | | |
|-------------------------|---|--|---|--|--|--|--|------------------------------------|
| SL No | DESCRIPTION OF EQUIPMENT/ ITEM | QTY/UOM | UNIT EX- WORKS PRICE (DULY PACKED) (INR) | TOTAL EX- WORKS PRICE (DULY PACKED) (INR) | ED (INCLUDING CESS) @...% (INR) | CST/VAT @...% AGAINST FORM 'C' /E/I/II (INR) | FREIGHT CHARGES (INCLUDING SERVICE TAX) @...% OF TOTAL EX WORKS (INR) | TOTAL F.O.R SITE PRICE (INR) |
| B | ELECTRICAL SPARES | | | | | | | |
| 1.0 | Control panel | | | | | | | |
| 1.1 | Air break switch | 1 no of each rating | | | | | | |
| 1.2 | Aux relays, contactors | 2 nos of each type | | | | | | |
| 1.3 | Clustered type LED's of different colours | 20 nos | | | | | | |
| 1.4 | Push buttons | 6 nos | | | | | | |
| 1.5 | Fuses for power & control circuit | 5 sets of each type | | | | | | |
| 1.6 | Control switches | 1 of each type | | | | | | |
| C | C&I SPARES | | | | | | | |
| 1.0 | Control panel | 1 no or 10% of the quantity of each type and range, whichever is higher. | | | | | | |
| 2.0 | Measurement and control system | | | | | | | |
| 2.1 | Input / output module | 1 no or 10% of the quantity of each type, whichever is higher. | | | | | | |
| 2.2 | Each type of fuse | 5 nos or 30% of each type, whichever is higher | | | | | | |
| 3.0 | CPU for man machine interface | | | | | | | |
| 3.1 | CPU cards, memory modules, any other PCB/modules | 1 no or 10% of the quantity of each type, whichever is higher. | | | | | | |
| 3.2 | Power supply module | 1 no or 10% of the quantity of each type, whichever is higher. | | | | | | |
| 4.0 | Panels, local panels | | | | | | | |
| 4.1 | Fuses of each type and rating | 25 nos | | | | | | |
| 4.2 | Mcb of each type and rating | 5 nos | | | | | | |
| 4.3 | Terminal of each type | 5 nos | | | | | | |
| NOTES | | | | | | | | |
| 1 | The bidder shall furnish unit rates for variable item (marked *) for necessary adjustment (plus or minus) variation during detailed engg. stage. The unit rates quoted above shall be considered and no separate unit rates shall be quoted. Unit rates shall be valid throughout the contract. | | | | | | | |
| 2 | Bidder must submit prices in the Pro Forma duly filled in signed and stamped on every page without any ambiguity. The price shall be written against each item. Term such as "refer covering letter" etc. are not acceptable. Extra sheet may be attached if the space provided is not sufficient | | | | | | | |
| 3 | Price format shall not be changed by the bidder as the bidder may get disqualified by doing so. | | | | | | | |

Signature



ANNEXURE - III

1 X 370 MW YELAHANKA CCPP (KPCL)

IMPORT CONTENT - PRICE SCHEDULE FOR AC SYSTEM PACKAGE

NIT REF NO-PE/PG/YE/1/E-5239/2016, DTD-26/05/2016

| SL NO | DESCRIPTION OF EQUIPMENT/ ITEM | ALL INCLUSIVE PRICE (As per tender) |
|-------|---|--|
| 1.0 | Total price (in terms of `Euro/US \$' and correspondingly in INR as on date) for supply of import content, as required, for total scope defined as per technical specification and terms & conditions of tender taking into account all clarifications, confirmations and agreements till date. (Bidder shall furnish item-wise break-up in a separate sheet) | |
| 1.1.1 | In Euro. | |
| 1.1.2 | In INR (Corresponding to 1.1.1). | |
| 1.2.1 | In US \$. | |
| 1.2.2 | In INR (Corresponding to 1.2.1). | |
| 1.3 | Total in INR (1.1.2 + 1.2.2). | |
| NOTE | | |
| 1.0 | Bidder's quoted price in various schedules shall be inclusive of above total price for import component at sl no 1.3 above. | |
| 2.0 | Bidder shall furnish item-wise break-up of imported items. | |

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| DEVIATION SHEET (COST OF WITHDRAWAL) | | | | | | | | | |
|--|---------|------|--------|---------------|-------------------------|---------------|---------------|---------------|------------------------------|
| PROJECT:- 370 MW YELAHANKA CPP | | | | | | | | | |
| PACKAGE:- AC SYSTEM | | | | | | | | | |
| TENDER ENQUIRY REFERENCE:-PE/PG/YE/1/E-5239/2016, DTD-26/05/2016 | | | | | | | | | |
| NAME OF VENDOR:- | | | | | | | | | |
| SL NO | SECTION | PAGE | CLAUSE | TECHNICAL | COMPLETE DESCRIPTION OF | COST OF | REFERENCE OF | NATURE OF | REASON FOR QUOTING DEVIATION |
| | | | | / TENDER | DEVIATION | WITHDRAWAL OF | PRICE | COST OF | |
| | | | | DOCUMENT | DEVIATION | DEVIATION | SCHEDULE ON | WITHDRAWAL OF | |
| | | | | SPECIFICATION | DEVIATION | DEVIATION | WHICH COST OF | DEVIATION | |
| | | | | | DEVIATION | DEVIATION | DEVIATION IS | (POSITIVE/ | |
| | | | | | DEVIATION | DEVIATION | NEGATIVE) | | |
| | | | | | DEVIATION | DEVIATION | APPLICABLE | | |
| TECHNICAL DEVIATIONS | | | | | | | | | |
| COMMERCIAL DEVIATIONS | | | | | | | | | |
| PARTICULARS OF BIDDERS/ AUTHORISED REPRESENTATIVE | | | | | | | | | |
| NAME | | | | | | | | | |
| DESIGNATIONS | | | | | | | | | |
| SIGN & DATE | | | | | | | | | |

NOTES:

- For self manufactured items or bidder, cost of withdrawal of deviation will be applicable on the basic price (i.e. excluding taxes, duties & freight) only.
- For directly dispatchable items, cost of withdrawal of deviation will be applicable on the basic price including taxes, duties & freight.
- All the bidders have to list out all their Technical & Commercial Deviations (if any) in detail in the above format.
- Any deviation not mentioned above and shown separately or found hidden in offer, will not be taken cognizance of.
- Bidder shall submit duly filled unpriced copy of above format indicating "quoted" in "cost of withdrawal of deviation" column of the schedule above along with their Techno-commercial offer, wherever applicable.
- Bidder shall furnish price copy of above format along with price bid.
- The final decision of acceptance/rejection of the deviations quoted by the bidder shall be at discretion of the Purchaser.
- Bidders to note that any deviation (technical/commercial) not listed in above and asked after Part-I opening shall not be considered.
- For deviations w.r.t. Payment terms, Liquidated damages, Firm prices and submission of E1/E2 forms before claiming 10% payment, if a bidder chooses not to give any cost of withdrawal of deviation loading as per Annexure-VIII of GCC, Rev-06 will apply. For any other deviation mentioned in un-priced copy of this format submitted with Part-I bid but not mentioned in priced copy of this format submitted with Priced bid, the cost of withdrawal of deviation shall be taken as NIL.
- Any deviation mentioned in priced copy of this format, but not mentioned in the un-priced copy, shall not be accepted.
- All techno-commercial terms and conditions of NIT shall be deemed to have been accepted by the bidder, other than those listed in unpriced copy of this format.
- Cost of withdrawal is to be given separately for each deviation. In no event bidder should club cost of withdrawal or more than one deviation else cost of withdrawal of such deviations which have been clubbed together shall be considered as NIL.
- In case of discrepancy in the nature of impact (positive/negative), positive will be assumed if not specified it shall be assumed as positive.
- In case of discrepancy in the nature of impact (positive/negative), positive will be assumed if not specified it shall be assumed as positive.



NIT REF NO-PE/PG/YE1/E-5239/2016, DTD-26/05/2016

1 X 370 MW YELAHANKA CCPP

AIR CONDITIONING SYSTEM - GAURANTEE POWER CONSUMPTION

| S.NO. | DESCRIPTION OF EQUIPMENT | NO OF EQUIPMENT | | TOTAL GUARANTEED POWER CONSUMPTION FOR EACH EQUIPMENT AT MOTOR INPUT TERMINAL AND CONTROL PANEL (IN KW) | DUTY FACTOR | TOTAL KW |
|---------------|---|-----------------|---------|---|-------------|------------|
| | | WORKING | STANDBY | | | |
| | | 3A | 3B | 4 | 5 | 6=3Ax4x5 |
| 1 | AC-Plant-1: (CENTRAL CHILLED WATER SYSTEM FOR MAIN CCR AREAS,CER,UPS ETC AC areas of Power house building) | | | | | |
| 1.1 | Water chilling machine -Screw chiller | 1 | 1 | | 1 | 0 |
| 1.2 | AHUs for Common control room areas, CER, computer room etc. | 1 | 1 | | 1 | 0 |
| 1.3 | Cooling tower fans for AC plant | 1 | 1 | | 1 | 0 |
| 1.4 | Condenser water pumps for AC plant | 1 | 1 | | 1 | 0 |
| 1.5 | Chilled water pumps for AC plant | 1 | 1 | | 1 | 0 |
| 1.6 | Fresh air fans for above AHU room | 1 | 0 | | 1 | 0 |
| | | | | TOTAL (KW) | | 260 |
| NOTES: | | | | | | |
| 1 | Estimated power consumption (EPC) figure for the system (for working drives only) has been considered as 260 KW. So long bidder's quoted guaranteed power consumption (GPC) above remains within this EPC, there will be no technical loading of bid on power consumption for evaluation. However, if bidder's quoted GPC exceeds EPC, there shall be technical loading of bid for evaluation @ Rs 136000/-per KW of additional power over EPC. | | | | | |
| 2 | Bidder's guaranteed power consumption at motor input terminals (not shaft power) as furnished in relevant schedule shall be demonstrated by the successful bidder during performance testing at works/ site. In case power consumption is noted higher than EPC / bidder's quoted GPC whichever is higher, during inspection/ PG test, penalty @ Rs 136000/-per KW shall be levied on vendor. | | | | | |

[Handwritten Signature]