



NAYA RAIPUR DEVELOPMENT AUTHORITY

**Tender Document for the
Supply and installation of HVAC Works for Rajya Yojana
Ayog Building at Naya Raipur**

(Following Three-Envelope Tender Procedure)

**Schedule – A
Price Tender
To be submitted in ENVELOPE-3**

NIT No.: 33 /HVAC / RYA / EEC-IV / CE (E) / NRDA / 2015-16, Raipur, Dated: 28.08.2015

Issued by: Chief Executive Officer,
Naya Raipur Development Authority (NRDA)
1st floor, Utility block, Capitol Complex, Sector-19,
Naya Raipur 492 002, Chhattisgarh
E-mail: ceo@nayaraiipur.com

Tender Document Contains

- (a) Only schedule "A" and Section-I of schedule "D" are to be filled & signed by the tenderer
 (b) All the certificates as per pre qualification criteria shall be appended with relevant forms of schedule "D"

1. PART ONE (NRDA F-1)-(Attached herewith, to be submit along the tender)

Part (A)

- a) Press Notice
 b) Detailed NIT

Part (B)

a) Schedule-A

- (i) Cost Abstract
 (ii) Bill of Quantities

- b) Schedule-B –NIL
 c) Schedule-C –NIL
 d) Schedule-D

Section-I..... Technical tender forms

- (i) Letter of Technical Tender
 (ii) Tenderer's Information Sheet
 (iii) Annual Turnover
 (iv) Specific Construction Experience
 (v) Declaration
 (vi) Check list for Technical tender evaluation

Section –IIScope of work

Section –III..... Technical specifications of work

Section –IV..... Special Conditions of Contract

Section –V..... List of approved makes

Section –VI..... Drawings

- e) Schedule-E
 f) Schedule-F

2. PART TWO (NRDA F-2/3)-Standard form (Not Attached herewith, and not to be submitted along the tender) Important note: - Link site <http://nayaraipur.com/documents/gcc.pdf>

1. General Guidelines
2. Tender
3. General rules and directions
4. Conditions of contract
5. Clauses of contract
6. Model rules relating to labour, water supply and sanitation in labour camps safety code
7. Contract forms
 - (a) Draft Format for Performance Security
 - (b) Earnest Money Deposit Form (Bank Guarantee)
 - (c) Format of Contract Agreement
 - (d) Draft Format for Performance Guarantee for Water Proofing and Anti-termite Works
 - (e) Indemnity Bond
 - (f) Indenture Bond
 - (g) Notice for Appointment of Arbitrator
8. Proforma of schedules (Schedule 'A' to Schedule 'F')

Naya Raipur Development Authority (NRDA) Raipur, Chhattisgarh

Document details

Name of work: Supply and installation of HVAC Works for Rajya Yojana Ayog Building at Naya Raipur
Name of Tenderer:

Details

- a) Cost of Tender Document : Rs
- b) EMD : Rs

Signature of Tenderer

Date: _____

Signature of Contractor.....

Signature of NRDA.....

BILL OF QUANTITY

Sl. No.	Description of Items	Unit	Quantity	Rate (In INR)	Rate in Words	Amount in INR
A	FOR AIR COOLING					
1	DOUBLE SKIN AIR WASHER UNITS					
1.1	Supply, Installation ,Testing and commissioning of sheet metal sectionalized construction double skin Air Washer Unit with stainless steel tank , each complete with Blower section Wet section and filter section as detailed in the specifications and complete with forward curved DIDW Blower with TEFC squirrel cage induction motor with AC supply in 3 phase, belt drive package, vibration isolation pads -spring mounted, 200 mm Thick Cellulose cooling pads , Mist eliminator, 50 mm thick pre filters, 2 nos monobloc pump set for water circulation,G.I B class/PVC piping Fire proof double layered flexible connections for each outlet complete with flanges made out of 20G G.S.S sheet on both sides for connection to air washer and duct complete with nuts, bolts etc complete as per specifications and as mentioned in the schedule of equipment of following capacities.					
a	7000 CFM capacity AWU 65 mm static pressure	No.	1			Rs. -
b	8000 CFM capacity AWU 65 mm static pressure	No.	1			Rs. -
c	9000 CFM capacity AWU 65 mm static pressure	No.	2			Rs. -
d	20000 CFM capacity AWU 65 mm static pressure	No.	1			Rs. -
1.2	Manufacture, Supplying, fixing in position, connecting, testing and commissioning of following AC Control panels. Each motor shall be provided with suitable incoming MCCB/ switch fuse unit, Contactors, over load relays, push button stations. Single phase preventers etc. All the components shall be housed in 2 mm thick MS sheet steel housing. The control panel shall be cubical type, dust and vermin proof, hinged and lockable doors and dead front operation. Provide cable glands as required. All interlocking wiring, timers and control wiring shall be done, and earthing the panel. Provide separate compartment for each motor controls. Interlock the door with switch handle complete as required. The bus bars shall be of copper. The control panel shall be suitable for 35 mVA fault level at 415 volts.					
	Air Washer unit Panel					
	Incoming					
	1 no.160 amp TPN MCCB, with standard releases.					
	0-500 volts voltmeter with SS with control fuses. (1set)					
	0-100 amp ammeter with SS and 100/5 CT's.					
	Phase indicating lights with control fuses.					

Sl. No.	Description of Items	Unit	Quantity	Rate (In INR)	Rate in Words	Amount in INR
	ON/OFF indicating lights.					
	Bus Bars					
	200 amp TPN aluminum bus bar with heat shrinkable insulation colored sleeves (The current density of the bus bar shall be 1.3 sq mm / Ampere.					
	Outgoings					
	1 nos. 63 amp, TPN MCCB with 32 amp contactors and over load relay with thermal protection with suitable rating on-off lamp drip indicating , 25 KA with operating handles and heavy duty solid neutral link with suitable capacity for the blower fan motor.					
	6 nos. 32 amp, TP MCCB with 32 amp contactors and over load relay with thermal protection with suitable rating on-off lamp drip indicating, 25 KA for 2 numbers pump motor feeders. with the followings for each feeders.					
	Panel complete as above [Note:- all the fans/motors shall be operated on direct online(DOL starter)]	Nos	1			Rs. -
2	EXHAUST FAN					
	Supplying, installation, testing and commissioning of following sizes heavy duty exhaust fan including earthing etc. complete as required					
a	450 mm dia. Fan	No.	6			Rs. -
b	225 mm dia. Fan	No.	38			Rs. -
	Sub total : A					Rs. -
B	FOR AIR CONDITIONING					

Sl. No.	Description of Items	Unit	Quantity	Rate (In INR)	Rate in Words	Amount in INR
1	<p>Supplying ,installation ,Testing & Commissioning of approved make split type Air Conditioner unit and fixing cooling unit on wall at desired location and condensing unit on out side wall/ ceiling/ floor at desired location having standard length of copper piping with insulation and drainage pipe as per requirement , necessary wiring including providing and fixing necessary good quality powder coated MS frame etc complete as Per direction Engineer in charge.</p> <p>Note-</p> <p>a-The position of indoor and outer split A/C unit will be decided by Engineer in Charge.</p> <p>b-All necessary accessories (cable ,pin tap etc)for electrical connection will be supplied and installed by supplier.</p> <p>c-The electrical connection from supply point to A/C unit shall be provided by supplier.</p> <p>d-Drainage outlet pipe shall be installed including drilling of wall of required diamter.The hole should slope downward toward the exterior to ensure adequate drainage.</p> <p>e- The drainage pipe allows water to drain in an appropriate place.</p> <p>f-All necessary civil work (hole etc) will done by supplier,including the fixture good as approved by Engineer in charge.</p> <p>g-The indoor and outdoor unit shall be fixing in place with the standred power coated MS frame and support /brackets etc including all fixtures as required as per site .</p> <p>(Makes: OG / Blue Star / Daiken / Hitachi)</p>					
a	1.5 Ton Split type	no	40			Rs. -
b.	2.0 Ton Split type	no	8			Rs. -
c.	2.0 ton Cassette split AC	No.	3			Rs. -
d.	4 .0 ton Cassette split AC	No.	8			Rs. -
2	Supplying and fixing of industrial type, socket outlet, enclosed metal plug top along with MCB in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required					
a	16 amp for 1.5 TR Split AC	No.	40			Rs. -
b	20 amp for 2 TR Split AC	No.	8			Rs. -
a	32 amp for 3 TR Cassette AC	No.	3			Rs. -
b	40 amp for 4 TR Cassette AC	No.	8			Rs. -
Sub total : B						Rs. -

Sl. No.	Description of Items	Unit	Quantity	Rate (In INR)	Rate in Words	Amount in INR
C	CABLING & ACCESSORIES					
3	Providing and fixing PVC insulated PVC sheathed , Aluminium / copper armoured cable of 1.1kV grade with termination glands and GI earthing, identification tags , clamps , saddles etc.					
a	4 C x 10 Sqmm (Al armoured)	RM	150			Rs. -
b	4 C x 6 Sqmm (Al armoured)	RM	300			Rs. -
c	3 x 2.5 sq.mm (copper for Indoor units)	Mtr	180			Rs. -
d	4 x 2.5 sq.mm (copper for Outdoor units)	Mtr	600			Rs. -
e	5 x 1.5 sq.mm (control cable for fire dampers)	Mtr	600			Rs. -
f	3.5 C x 70 sq.mm (Al armoured)	Mtr	200			Rs. -
g	3.5 C x 16 sq.mm (Al armoured)	Mtr	200			Rs. -
4	Providing and fixing following rating motor starter on metal board including, connections, testing and commissioning etc. as required					
a	DOL starter for air washer water pump	No.	5			Rs. -
5	Supplying and fixing on surface / recess prewired horizontal type following ways 415Volt,TP & N, MCB Distribution boards of sheet steel ,phosphatised and powder painted complete with loose wire box,terminal box,tinned copper busbar,neutral link,earth bar,din bar,detachable gland plate,duly prewired with suitable size FRPVC insulated copper conductor upto terminal blocks including interconnections, earthing connections etc. (But without MCB/RCCB/Isolator).					
a	4Way (4 + 12) , single door	No.	1			Rs. -
6	Supplying and fixing SP MCB, 240 volts, 'C' series, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
a	6 amps to 32 amps	No.	20			Rs. -
7	Providing and fixing on wall surface G.I. pipes medium class complete with G.I. fittings and clamps, including cutting, making good the walls etc. and testing of joints complete:					
a	15 mm dia. nominal bore	metre	40			Rs. -
b	32 mm dia. nominal bore	metre	100			Rs. -
8	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :					
a	15 mm nominal bore	each	5			Rs. -

Sl. No.	Description of Items	Unit	Quantity	Rate (In INR)	Rate in Words	Amount in INR
9	Supplying and installing following size powder coated, perforated M.S. cable trays with perforation not more than 17.5% rigidly suspended from the ceiling with M.S. suspenders at a distance not more than 2.5 metre and near every junction/ joint etc complete as required.					
a	150 mm width X 50 mm depth X 1.6 mm thickness	metre	100			Rs. -
	Sub total : C					Rs. -
	Total Amount (A+B+C)					Rs. -