



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 04

Ref: PSER:SCT:BNP-M1610:TCN-04

Date: 11-11-2014

Sub	Tender Change Notice (TCN) - 04.	
Job	Design, Engineering, Manufacturing, Supply, Erection, Testing, Commissioning Etc of Ventilation System for 2x660 MW Units at IB TPS, OPGCL, Banharpalli, Odisha.	
Ref	1.0	Tender no PSER:BNP-M1610:14
	2.0	BHEL's NIT, vide reference no PSER:SCT:BNP- M1610:3984 Date: 14/10/2014.
	3.0	BHEL's TCN-01, vide reference no PSER:SCT: BNP-M1610:TCN-01 Date: 20-10-2014
	4.0	BHEL's TCN-02, vide reference no PSER:SCT: BNP-M1610:TCN-02 Date: 03-11-2014
	5.0	BHEL's TCN-03, vide reference no PSER:SCT: BNP-M1610:TCN-03 Date: 05-11-2014
	6.0	Other References, if any.

With reference to above, following points, relevant to tender, may please be noted and complied with while submitting the offer.

- 1) [The clarifications to bidders queries are attached at Annexure-A along with NIT.](#)
- 2) [Revised Price schedule is attached in Volume-III \(Rev-01\)](#)
- 3) Extension of due date of offer submission from **11-11-2014 to 18-11-2014 (15:00 Hrs).**
- 4) [Revised 'No deviation certificate' is attached.](#) Bidder to submit 'No deviation certificate' as per attached format only.
- 5) All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

DGM (SCT)

Encl: As above.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960

फोन/Phone : बोर्ड/EPABX : 23211798/ 1691

ANNEXURE – A TO TCN-04

JOB	Design, Engineerin, Manufacturing, Supply, Erection, Testing, Commissioning, etc. of Ventilation System for 2x660 MW Units at IB TPS, OPGCL, Banharpalli, Odisha			
TENDER NO.	PSER:SCT:BNP:M1610:14			
Sl.No.	Reference clause of tender document	Existing provision	Bidder's query	BHEL's clarification
	Cl.No.6.1.1.8 of C1 Page 11 of 18	Regarding Design Margin to be considered. The design margin is specified in the referred clause like Fan capacity + 20% flow margin, Fan Head + 20% design margin. Pump capacity - Flow with 15% margin & head 20% margin.	Should we consider the same margin while selecting our Equipments and Calculating Guaranteed Power Consumption for each equipments. Please clarify.	As per Tender provision. Bidder to quote as per tender specification.
	Clause No.2.02.02 of C2 & 2.02.05	Regarding Ventilation Distribution Board & Power & Control Cable.	Which are not reflecting in your electrical Scope Matrix under Annx-I of Sec-C.Please clarify is in our scope or not.	As per Tender provision as define in electrical scope matrix provided in tender. Bidder to quote as per tender specification.
	Clause No.5.12.02		What type of Distribution Board to be considered for the Motor of Rating for ventilation Fan beyond 5.5 KW	Shall be feed from centralized MCC (refer electrical scope matrix as indicated in Tender)
	Regarding guarantee power consumption under Sec.9 vol.3 - Price Schedule, Rev.00	Area wise Equipment Guaranteed Power.	Please specify The Fans capacity & pressure under the following area-wise as indicated in the referred section. Please clarify :--- 7.0 Battery Room 8.0 Coal conveyor tripper floor of Mill Bay 9.0 DG Building. 10.0 Plant compressor room	Kindly considered the fan capacity area wise as under. 7.0 Battery Room :- Axial flow Exhaust fan of capacity 15000 CMH with 15 mmSP (Spark proof Bifurcated type fan). 8.0 Coal conveyor tripper floor of Mill Bay :- RE Unit of capacity 20000 CMH with 15 mmSP. 9.0 DG Building :- Axial flow Exhaust fan of capacity 10000 CMH with 10 mmSP. 10.0 Plant compressor room :- Axial flow Supply fan with pre filter of capacity 10000 CMH with 20 mmSP.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, SECTOR-II, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960 फोन/Phone : बोर्ड/EPABX : 23216130/ 6134/ 6135

**VOLUME-III
PRICE SCHEDULE, REV-1**

JOB: DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING, COMMISSIONING, ETC INCLUDING O&M OF VENTILATION SYSTEM FOR 2X660 MW UNITS AT IB TPS, BANHARPALLI, ORISSA.

TENDER NO PSER:SCT: BNP-M1610:14

PREAMBLE

SL NO	DESCRIPTION
1	This preamble forms part of tender document and schedule of items. The bidder should read this preamble carefully for various items. Clauses under this preamble shall be read in conjunction with applicable volumes of Volume-IA, Volume-IB, Volume-IC, Volume-ID, Volume-IF, Volume-II, other part of this volume, together with subsequent changes/ modifications, etc thereto as applicable as on latest date of submission of price offer.
2	The work shall be carried out strictly as per specifications, description of the items in these schedule and / or engineer's instructions.
3	Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.
4	Unless specifically mentioned otherwise in the tender document, the tenderer shall quote for the finished items and shall provide for the complete cost towards power, fuel, tools, tackles, equipment, constructional plants, temporary works, labour, dismantling of all temporary piping, structures, valves, pumps, tanks & other misc. equipment, strengthening of roads/culverts/bridges etc. including arranging all clearances etc. required for carrying out different activities & tests, materials, levies, taxes(except service tax), transport, layout, repairs, rectification, maintenance till handing over, supervisions, colonies, shops, establishments, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary to complete the work according to the complete tender document and this schedule.
5	The quantities of the various items mentioned in this schedule of items are approximate, based on very preliminary information and may vary to any extent or be deleted altogether. The quoted rates of each item will remain firm throughout the period of execution including extension, for reasons whatsoever, as long as variation in the total value of work executed under any part of this contract including extra items, if any but excluding any price variation remains, within fifteen percent ($\pm 15\%$) of the awarded price as per LOI .
6	Prior written approval of BHEL shall be sought by the contractor in case quantity variation of any item crosses +50% (plus fifty percent) limit during execution and approval to be obtained before execution of further quantity for this item.
7	In case Sealed /Paper Price Bids are opened for finalisation of the tender, for any Item Rate/BOQ based contract, possibility of variation of quantity/ addition/deletion of items can not be ruled out. Under such circumstances, after execution of work, if it is observed that standing as L-1 is changed based on actual quantity executed, the bidder shall give suitable rebate to maintain your standing as L-1. Since this aspect can be assessed at the end of execution, necessary adjustment will be effected at the end of execution in final bill.This condition shall not be applicable where the tender is finalised through Reverse Auction.
8	BHEL reserve the right to rationalize the rates, quoted by L-1 bidder against unit rate items and/ or other optional items with respect to item-wise lowest rates (amongst the participating bidders), before placement of order.
9	The rates quoted shall be inclusive of cleaning of site of any vegetation, dressing , clearing of old structures and leveling etc. including fixing of grid pillars, benchmarks etc. required for commencement of site activities. No separate payment will be made towards the same.
10	Rates shall be quoted in figures and in words in clear legible writing. No overwriting is allowed. All scoring and cancellations should be countersigned and in case of illegibility the interpretation of engineer shall be final. All entries shall be in English language.
11	All works item wise shall be measured upon completion and paid for at the rates quoted and accepted as per BHEL approved payment schedule/billing break-up.
12	The tender shall be deemed to have visited site and made himself aware of all the site conditions, studied the specifications and details of work to the done within the time schedule attached and to have acquainted himself of the conditions prevailing at site.
13	No splitting of the job is envisaged. Decision of BHEL in this regard shall be final and binding to the bidders.
14	Bidders are not allowed to alter the Price Schedule format including item description,quantity etc. and the offer is liable for rejection if the bidders submit their prices in Price Schedules modified by them.BHEL reserves the right to reject the offers of bidders who submit offers in Price Formats which are modified/alterd by them.
15	Bidders to note that for Civil &/Structural packages, against a particular item against a ST No. appearing in more than one schedule of the BOQ, same rate must be quoted in all schedules for that particular items with same descriptions. If by error, different rates are quoted in different schedules for same ST No.(i.e. item with same description), then the higher of the rates shall be considered for evaluation but awarding shall be done with the lower rate ,if the bidder becomes L-1."
16	In case of Lumpsum contracts, addition or deletion of the scope beyond the variation limit specified shall be derived from the quoted Lumpsum price and the tendered scope of work considering the allowable variation limit.
17	Engineer's decision shall be final and binding on the contractor regarding clarification of items in the schedule with respect to the other sections/volumes of the contract.
18	In case of tender for Civil and/or Structural works , the Non-schedule items are not quoted by the bidder, it will be treated at par with rate of corresponding item of CPWD/PWD/DSR schedule as prescribed in the tender/BOQ cum Rate Schedule.
19	Size and weights of various items are mentioned in the attached BOQ cum rate/price schedule for reference purpose only & these shall not be taken into consideration for quoting/calculating amount in the rate schedule. These shall be utilised as per relevant sections of tender. Bidders shall quote for each item in the rate column, taking unit as mentioned in the quantity column. Rates shall be filled in both figures and words. Amount shall be calculated based upon these rates multiplied by the mentioned quantity for the respective items.
20	Bidder's Total price will be shall be considered for evaluation unless stated otherwise.
21	In case of BOP packages, if Bidder does not quote/indicate the price for freight chages against indicated rate schedule, the same shall be considered as 2% of basic price and adjusted with the total quouted price against each item keeping the total quoted price unaltered.

VOLUME-III		
PRICE SCHEDULE, REV-1		
Design, engineering, manufacturing, supply, erection, testing, commissioning, etc of Ventilation System for 2x660 MW units at IB TPS, Banharpalli, Orissa.		
TENDER NO PSER:SCT: BNP-M1610:14		
SCH-1 - TOTAL PRICE		
SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	TOTAL QUOTED PRICE (Rs)
1.0	Total price for supply and service parts for design, engineering, manufacturing, inspection, testing, painting, supply/ delivery duly packed at project site including freight, receipt, unloading, storage & handling at site, erection, commissioning, trial run, handing over, etc in line with drawings/ documents/ test procedures approved by BHEL/ customer, for the total scope defined in the technical specification and terms & conditions of tender, taking into account all clarifications, confirmations, agreements till date, complete with all accessories, including supply of consumables, erection & commissioning spares, special tools & tackles for maintenance, mandatory spares, of Ventilation System for 2x660 MW units at IB-TPS, Banharpalli, Odisha.	
NOTE		
1.0	Bidder to note that total price at sl no 1.0 above shall be considered for evaluation & awarding. As such total price at sl no 1.0 should be complete in all respect for the full scope defined and considering all terms and conditions.	
2.0	Bidder shall note that Service Tax (On service part) shall be paid extra at actual as per tender provision. As such, bidder's price shall be exclusive of these components and evaluation of bidders total price will be done on this basis.	
3.0	Bidder to note that percentage break-up of above total price into supply part, service part are frozen and indicated in SCH-2. Base on this break-up and further break-up in subsequent schedules, separate orders will be placed for (i) Main supply; (ii) Mandatory spares supply and (iii) Service, as per respective price components. Based on this broad break-up, item/ system-wise pertenage break-up of supply part & service part are frozen & indicated in subsequent schedules.	
4.0	For supply part, bidder shall furnish break-up of broad allocated item/ system-wise prices into basic price, taxes & duties, freight, total in the respective schedule in the following manner.	
4.1	SCH-3 - Main supply price break-up into basic, taxes & duties, freight, total for various items/ systems as per prescribed format.	
4.2	SCH-4 - Erection & commissioning spares price break-up, indicating items-wise break-up into basic, taxes & duties, freight, total, corresponding to allocated percentage of SCH-3..	
4.3	SCH-5 - Special tools & tackles for maintenance price break-up, indicating items-wise break-up into basic, taxes & duties, freight, total, corresponding to allocated percentage of SCH-3..	
4.4	SCH-6 - Mandatory spares price break-up, indicating items-wise break-up into basic, taxes & duties, freight, total corresponding to allocated percentage of SCH-3.	
4.5	SCH-8 - Import content.	
5.0	For service part, break-up of allocated item/ system-wise prices is frozen and furnished in SCH-7 and shall be followed for all contratual purpose. For this, bidder need not to furnish any further break-up.	

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	TOTAL QUOTED PRICE (Rs)
6.0	For import content, price of which is included in sl no 1.0 above, but to enable issue of requisite documents by BHEL, bidder shall furnish details of CIF content in SCH-8.	
7.0	Bidder shall note that while the allocated price in each schedule correspond to their respective prices, rates of various components will be worked out by apportioning the amounts wrt respective indicated quantities.	
8.0	If the bidder fail to furnish break-up as per above or furnish break-up in variance to above, BHEL reserve the right to fill-in or amend break-up, as applicable, as per BHEL's discretion in line with broad frozen break-up. Decision of BHEL in this regard shall be final & binding on bidder.	
9.0	Based on mode of finalisation of contract (Either through Reverse Auction or price bid opening, followed by negotiation, if any, while absolute price may change, persentage allocation as per the price schedule shall remain unchanged.	
10.0	If freight component is not specifically indicated in the relevant section of price schedule, 2 % of total corresponding amount will be considered as freight component against each item for further processing.	
11.0	Bidder shall furnish item-wise rate/ price for mandatory spare as per list & as per technical specification, in the relevant schedule, if included. In case, bidder do not furnish any rate/ price or indicate `NA' against any item due to non-applicability as per bidder's design, etc, they have to supply such items, if found required on detail engineering or due to any other reason at a later date as per direction of BHEL/ customer.	
12.0	Bidder shall furnish item-wise rate/ price for special tools & tackles for maintenance as per specified list of technical specification or separately furnish item-wise rate/ price break-up gainst allocated percentage in the price scehdule. In case, bidder do not furnish any rate/ price or indicate `NA' against any item due to non-applicability as per bidder's design, etc, they have to supply such items, if found required on detail engineering or due to any other reason at a later date as per direction of BHEL/ customer.	
13.0	Bidder shall furnish item-wise rate/ price for erection & commissioning speares as per specified list of technical specification or separately furnish item-wise rate/ price break-up gainst allocated percentage in the price scehdule. In case, bidder do not furnish any rate/ price or indicate `NA' against any item, they have to supply such items, if required on detail engineering or due to any other reason at a later date as per direction of BHEL/ customer.	
14.0	In case bidder do not indicate price component or indicate `NA', etc in the relevant schedule for any other items component required for completion of package, if applicable, they have to supply & execute such items, if required on detail engineering for completion of the package, at no extra cost to BHEL.	
15.0	Quantity of variable items (marked *), if included, is likely to vary during detailed design & engineering stage mainly due to change in layout/ dimension, etc. The unit rates quoted & accepted by BHEL for these items shall be considered and no separate unit rates shall be quoted. Unit rates shall be valid throughout contract.	
16.0	Unit rate items, if included, shall not be considered for evaluation. The rates for the Unit rate items shall be applied for addition/ deletion of scope and rates shall be valid through out the contract period, including extension.	
17.0	Other optional items, if included, shall not be considered for evaluation.	
18.0	BHEL reserve the right to rationalize the rates, quoted by L-1 bidder against variaable items, Unit Rate items other optional ,items with respect to item-wise lowest rates (amongst the participating bidders), before placement of order.	
19.0	BHEL shall issue requisite document, if required, for imported items, if included, limited to the CIF values furnished by bidder in the relevant schedule.	

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	TOTAL QUOTED PRICE (Rs)
20.0	Estimated power consumption (EPC), if included, for the system (For working drives only) has been specified in relevant schedule.	
21.0	Bidder's quoted GPC at the relevant schedule shall be demonstrated by successful bidder during performance testing at works/ site. In case demonstrated power consumption is found more than EPC, during inspection/ PG test, penalty at stipulated rate of additional power over EPC, will be levied.	
22.0	Any item as per scope of work, if not included in the price quoted above and shown separately will not be taken cognizance of and the offer shall be liable for rejection.	
23.0	Price format shall not be changed by bidder in any case, since it may lead to cancellation of bidder's offer.	

VOLUME-III			
PRICE SCHEDULE, REV-1			
Design, engineering, manufacturing, supply, erection, testing, commissioning, etc of Ventilation System for 2x660 MW units at IB TPS, Banharpalli, Orissa.			
TENDER NO PSER:SCT: BNP-M1610:14			
SCH-2 - TOTAL PRICE BREAK-UP			
SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	ALLOCATION OF TOTAL PRICE (IN PERCENT)	PRICE (ABSOLUTE VALUE) IN Rs.
(1)	(2)	(3)	(4)
BREAK-UP OF TOTAL PRICE, SL NO 1.0 OF SCH-1			
1.0	MAIN SUPPLY		
	Total price for supply part for design, engineering, manufacturing, inspection, testing, painting, supply/ delivery duly packed at project site including freight, etc in line with drawings/ documents/ test procedures approved by BHEL/ customer, for the total scope defined in the technical specification and terms & conditions of tender, taking into account all clarifications, confirmations, agreements till date, complete with all accessories, including supply of consumables, erection & commissioning spares, special tools & tackles for maintenance, of Ventilation System for 2x660 MW units at IB-TPS, Banharpalli, Odisha.	77%	
2.0	MANDATORY SPARE SUPPLY		
	Total price for supply part for design, engineering, manufacturing, inspection, testing, painting, supply/ delivery duly packed at project site including freight, receipt, etc in line with drawings/ documents/ test procedures approved by BHEL/ customer, for the total scope defined in the technical specification and terms & conditions of tender, taking into account all clarifications, confirmations, agreements till date, complete with all accessories of mandatory spares of Ventilation System for 2x660 MW units at IB-TPS, Banharpalli, Odisha.	3%	
3.0	SERVICE		
	Total price for service part for receipt, unloading, storage & handling at site, erection, commissioning, trial run, handing over, etc in line with drawings/ documents/ test procedures approved by BHEL/ customer, for the total scope defined in the technical specification and terms & conditions of tender, taking into account all clarifications, confirmations, agreements till date, complete of Ventilation System for 2x660 MW units at IB-TPS, Banharpalli, Odisha.	20%	
TOTAL (MAIN SUPPLY + MANDATORY SPARES SUPPLY + SERVICE)		100%	
NOTE			
1.0	Bidder to note broad percentage break-up prices at sl no 1.0 (Main supply, mandatory spare supply & service) in SCH-1 as per above.		
2.0	Bidder to note based on above break-up and together with break-up in subsequent schedules, separate orders will be placed for (i) Main supply; (ii) Mandatory spares supply and (iii) Service.		

**VOLUME-III
PRICE SCHEDULE, REV-1**

Design, engineering, manufacturing, supply, erection, testing, commissioning, etc of Ventilation System for 2x660 MW units at IB TPS, Banharpalli, Orissa.

TENDER NO PSER:SCT: BNP-M1610:14

SCH-3 - MAIN SUPPLY PRICE BREAK-UP

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	ALLOCATION OF TOTAL PRICE (IN PERCENT)	QUANTITY	QUOTED COMPONENT OF ALLOCATION (IN Rs)					
				BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL PRICE	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(5)~(8)	
BREAK-UP OF MAIN SUPPLY PRICE, SL NO 1.0 OF SCH-2									
1.0	Sheet metal containarized type air washer unit with centrifugal fan (DIDW) with motor, pumps with motors, air washer internals, inlet air louvers, filters, piping as per IS:1239, Part-I (Heavy class galvanised), valves, nozzles, level switch, temp indicators, back wash arrangement, galvanised drain piping, etc as per specification of capacity 2,80,000 CMH. Each air washer has 2 no centrifugal fan (2 x 50% duty) of capacity 1,40,000 CMH at min 80 mm SP.	24	8	NO					
2.0	Relay based control panel for air washers as specified (1 no common panel for 2 no air washer in BC bay of unit # 3, 1 no common panel for 2 no air washer in A row side of unit # 3, 1 no common panel for 2 no air washer in BC bay of unit # 4, 1 no common panel for 2 no air washer in A row side of unit # 4).	4	4	NO					
3.0	Unitary air filtration unit with centrifugal fan (SISW) with motor, pumps with motors, filters, UAF internals, piping as per IS:1239, Part-I (Heavy class galvanised), valves for auto start of standby equipment, nozzles, level switch, pressure switches, temp indicators, back wash arrangement, galvanised drain piping, etc as per specification (Fan capacity 1,00,000 CMH at 60 mmwc static pressure)	9	2	NO					
4.0	Relay based control panel for UAF as specified (1 no control panel for 1 no UAF in ESP building of unit # 3, 1 no control panel for 1 no UAF in ESP building of unit # 2).	2	2	NO					

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	ALLOCATION OF TOTAL PRICE (IN PERCENT)	QUANTITY	QUOTED COMPONENT OF ALLOCATION (IN Rs)				
				BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL PRICE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(5)-(8)
5.0*	Supply air ducting (finished) for above area complete with dampers, grills (with VCD & without VCD), supports (painted) and all accessories as specified.							
5.1*	Finished GSS (zinc coating 180 gms/sqm) duct materials with support structure, etc.							
5.1.1*	18 G	11	7000	SQM				
5.1.2*	20 G	11	8000	SQM				
5.2*	MS duct with epoxy paint for battery room.	0.5	200	SQM				
5.3*	MS grilles with VCD.	0.75	175	SQM				
5.4*	MS Grilles without VCD.	0.75	10	SQM				
5.5*	Thermal insulation 25 mm expanded polystyrene finished with sand cement plaster as specified for supply air duct.	2	1500	SQM				
5.6*	Wall mounted dampers (gravity operated) for different areas.	0.5	30	SQM				
5.7*	Inlet louvres.	0.5	30	SQM				
6.0*	Fire damper							
6.1*	Fire damper	1	30	SQM				
6.2*	Motorized actuator with single phase power supply for the above fire damper with auto resetting, limit switches, indication lamps, etc	0.8	45	NO				
6.3*	Fusible link type fire damper.	0.2	15	SQM				
7.0*	Roof extractor units (axial flow type) with hood, disconnect switch and all accessories as specified. Following fan shall have 15 mmwc static pressure.							
7.1*	Capacity 50,000 CMH with motor rating 5.5 KW.	4	24	NO				
7.2*	Capacity 40,000 CMH with motor rating 5.5 KW.	1	6	NO				
7.3*	Capacity 20,000 CMH with motor rating 2.2 KW.	1	6	NO				
8.0*	Axial flow supply fans with pre and fine filter (wall mounted) complete with casing, TEFC sq cage induction motors & mounting frame, MS rain protection cowl, bird screen and all other accessories (suitable for 415V/3-phase supply). Following fan shall have 30 mmwc static pressure.							
8.1*	Capacity 10,000 CMH with motor rating 2.2 KW.	1	4	NO				
8.2*	Capacity 7,500 CMH with motor rating 1.5 KW.	1.5	4	NO				

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	ALLOCATION OF TOTAL PRICE (IN PERCENT)	QUANTITY	QUOTED COMPONENT OF ALLOCATION (IN Rs)				
				BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL PRICE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(5)-(8)
8.3*	Capacity 6,000 CMH with motor rating 1.1 KW.	3	10	NO				
8.4*	Capacity 4,000 CMH with motor rating 0.75 KW.	1	6	NO				
9.0*	Axial flow supply fans with pre filter (wall mounted) complete with casing, TEFC sq cage induction motors & mounting frame, MS rain protection cowl, bird screen and all other accessories (suitable for 415 V/ 3-phase supply). Following fan shall have 20 mmwc static pressure.							
9.1*	Capacity 10,000 CMH with motor rating 1.5 KW.	2.5	8	NO				
9.2*	Capacity 7,500 CMH with motor rating 1.1 KW.	1	8	NO				
9.3*	Capacity 6,000 CMH with motor rating 1.1 KW.	1	4	NO				
9.4*	Capacity 4,000 CMH with motor rating 0.75 KW.	1	4	NO				
10.0*	Axial flow exhaust fans (Bifurcated type, spark proof construction, wall mounted) complete with casing, flame proof motor & mounting frame, MS rain protection cowl, bird screen and all other accessories epoxy painted (suitable for 415 V/ 3-phase supply). Following fan shall have 15 mmwc static pressure.							
10.1*	Capacity 15,000 CMH with motor rating 2.2 KW.	1	5	NO				
10.2*	Capacity 10,000 CMH with motor rating 1.5 KW.	1	5	NO				
10.3*	Capacity 7,500 CMH with motor rating 1.1 KW.	2	15	NO				
10.4*	Capacity 2,000 CMH with motor rating 0.55 KW.	1	6	NO				
11.0*	Axial flow exhaust fans (Wall mounted) complete with casing, TEFC sq cage induction motor & mounting frame, MS rain protection cowl, bird screen and all other accessories epoxy painted (suitable for 415 V/ 3-phase supply) as specified. Following fan shall have 10 mmwc static pressure.							
11.1*	Capacity 15,000 CMH with motor rating 1.1 KW.	0.5	6	NO				
11.2*	Capacity 10,000 CMH with motor rating 0.75 KW.	0.5	6	NO				
11.3*	Capacity 7,500 CMH with motor rating 0.55 KW.	2	20	NO				
11.4*	Capacity 6,000 CMH with motor rating 0.55 KW.	1	6	NO				
11.5*	Capacity 2,000 CMH with Motor rating 0.37 KW	1	5	NO				

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	ALLOCATION OF TOTAL PRICE (IN PERCENT)	QUANTITY	QUOTED COMPONENT OF ALLOCATION (IN Rs)				
				BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL PRICE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)=(5)-(8)
12.0*	Exhaust fan (propeller type) completes with induction motor & mounting frame MS rain protection cowl, bird screen and all other accessories as specified (suitable for 240 V/ 1 phase). Following fan shall have 5 mmwc static pressure.							
12.1*	Capacity 1200 CMH with motor rating 100 watts.	2	35	NO				
15.0	Field instruments, like pressure gauge, temperature gauge, pressure switch, differential pressure switch, flow switch and other instrument required for ventilation system, etc.	1.5	1	LOT				
16.0	Any other item not indicated above, but required to make the system complete in all respects.	0.1	1	LOT				
13.0	Total price for erection & commissioning spares. (Bidder shall submit item-wise break-up in techno-commercial offer as well as in price offer)	0.2	1	LOT				
14.0	Total price for maintenance tools & tackles. (Bidder shall submit item-wise break-up in techno-commercial offer as well as in price offer)	0.2	1	LOT				
TOTAL (MAIN SUPPLY)		100						
NOTE								
1.0	While allocation for main supply price out of total price is frozen in SCH-2, further break-up of main supply (100 %, corresponding to 77 %) of into various components of main equipment, erection & commissioning spares and maintenance tools & tackles (Corresponding to percentage allocation) to be furnished by bidder in this schedule as per prescribed format.							

**VOLUME-III
PRICE SCHEDULE, REV-1**

**Design, engineering, manufacturing, supply, erection, testing, commissioning, etc of Ventilation System for 2x660 MW units at IB TPS,
Banharpalli, Orissa.**

TENDER NO PSER:SCT: BNP-M1610:14

SCH-5 - MAINTENANCE TOOLS & TACKLES SUPPLY PRICE BREAK-UP

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	ALLOCATION OF TOTAL PRICE (IN PERCENT)	ALLOCATION OF TOTAL PRICE (IN INR)	QUANTITY	QUOTED COMPONENT OF ALLOCATION (IN Rs)				
					BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL PRICE
(1)	(2)			(3)	(4)		(5)	(6)	(7)=(4)~(6)
BREAK-UP OF MAINTENANCE TOOLS & TACKLES SUPPLY PRICE, SL NO 3.0 OF SCH-3									
1.0									
2.0									
3.0									
4.0									
5.0									
6.0									
7.0									
8.0									
9.0									
10.0									
11.0									
12.0									
13.0									
14.0									
TOTAL (MAINTENANCE TOOLS & TACKLES SUPPLY)		100%							

NOTE

1.0 Bidder may attach separate sheet to furnish ite-wise break-up of maintenance tools & tackles cporresponding to allocation in SCH-3.

**VOLUME-III
PRICE SCHEDULE, REV-1**

**Design, engineering, manufacturing, supply, erection, testing, commissioning, etc of Ventilation System
for 2x660 MW units at IB TPS, Banharpalli, Orissa.**

TENDER NO PSER:SCT: BNP-M1610:14

SCH-6 - MANDATORY SUPPLY PRICE BREAK-UP

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	QUANTITY	QUOTED PRICE (IN Rs)				
			BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL PRICE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(7)=(4)-(6)
BREAK-UP OF MANDATORY SPARES SUPPLY PRICE, SL NO 2.0 OF SCH-2							
1.0	Centrifugal fan						
1.1	Set of bearing for air washer fan.	1 set for each type of fan					
1.2	Set of bearing for UAF fan.	1 set for each type of fan					
1.3	Impeller for the fan.	1 set for each type of fan					
2.0	Centrifugal pump.						
2.1	Set of bearing for air washer pump.	1 set for each type and rating of pump					
2.2	Set of bearing for UAF pump.	1 set for each type and rating of pump					
2.3	Gland packing, shaft sleeve & casing wearing ring.	1 set for each type and rating of pump					
2.4	Impeller for the pump.	1 set for each type and rating of pump					
3.0	Spray nozzles.						
3.1	Spray nozzles for air washer unit.	5%					
3.2	Spray nozzles for UAF unit.	5%					
4.0	SS filters.						
4.1	SS filters for air washer.	10%					
4.2	SS filters for unitary air filtration unit.	10%					
5.0	Flow regulating valve.						
5.1	For air washer.	10 % or minimum 1 no, whichever is higher					
5.2	For unitary air filtration unit.	10 % or minimum 1 no, whichever is higher					
6.0	Basket for pot strainer.						
6.1	Strainer basket for air washer.	1 no for each type and size					
6.2	Strainer basket for unitary air filtration unit.	1 no for each type and size					
7.0	Valves.						
7.1	Gate valve for air washer.	10 % or minimum 1 no, whichever is higher					

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	QUANTITY	QUOTED PRICE (IN Rs)				
			BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL PRICE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(7)=(4)-(6)
7.2	NR valve for air washer.	10 % or minimum 1 no, whichever is higher					
7.3	Gate valve for unitary air filtration unit.	10 % or minimum 1 no, whichever is higher					
7.4	NR valve for unitary Air filtration unit.	10 % or minimum 1 no, whichever is higher					
7.5	Gate valve for make-up drain of air washer.	10 % or minimum 1 no, whichever is higher					
7.6	Gate valve for UAF.	20 % or minimum 2 nos, whichever is higher					
8.0	Electrical spares as applicable as per following.						
8.1	415 V motor (Above 30 KW rating)						
8.1.1	End shield cover, driving & non-driving end.	1 set for each type & rating of motor					
8.1.2	Driving end & non-driving end bearing.	1 set for each type & rating of motor					
8.1.3	Cooling fan.	1 no for each type & rating of motor					
8.1.4	Motor space heater.	1 no for each type & rating of motor					
8.1.5	Motor terminal block.	1 no for each type & rating of motor					
8.1.6	Complete set of coupling.	1 set for each type & rating of motor					
8.2	415 V motor (Upto 30 KW rating)						
8.2.1	Driving end & non-driving end bearing.	1 set for each type & rating of motor					
8.2.2	Cooling fan.	1 no for each type & rating of motor					
8.2.3	Motor terminal block.	1 no for each type & rating of motor					
8.2.4	Complete set of coupling.	1 set for each type & rating of motor					
8.3	DC motor						
8.3.1	Carbon brush.	10 sets of each type					
8.3.2	Brush assemblies.	2 sets of each type					
8.3.3	Treminal block.	2 sets of each type					
8.3.4	Heaters.	2 sets of each type					
8.3.5	Pulleys.	2 sets of each type					
8.3.6	Bearings (DE & NDE)	4 sets of each type & rating of motor					
8.4	Glands & lugs.	20 % of each type, size & rating					
9.0	C&I spares as applicable as per following.						
9.1	Field instruments						
9.1.1	Electronic transmitter (Pr, differential pr, level, speed, etc)	1 no, complete sset for each type & mode/ range used in the system					
9.1.2	Switch (Pr, differential pr, level, flow, temp, etc)	1 no of each type & model/ range used in the syatem					
9.1.3	TC.	10 % of each type & range of total no used in the system or minimum 2 nos, whichever is higher					

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	QUANTITY	QUOTED PRICE (IN Rs)				
			BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL PRICE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(7)=(4)-(6)
9.1.4	RTD.	10 % of each type & range of total no used in the system or minimum 2 nos, whichever is higher					
9.1.5	Thermowell for both TC & RTP.	1 no for each type & rating/ length used in the system					
9.1.6	Solenoid valve.						
9.1.6.1	Complete solenoid valve assembly.	2 nos for each type & rating used in the system					
9.1.6.2	Coil (Single or double coil type)	10 % of total nos used in the system, or minimum 5 nos, whichever is higher, for each type & rating.					
9.1.7	Gauge (Pr, differential pr, temp, level)	10 % of total nos used in the system, or minimum 1 no, whichever is higher, for each type & rating.					
9.1.8	Air filter regulator complete set with pr gauge.	10 nos					
9.1.9	Rotameter.	10 % of total nos used in the system, or minimum 2 no, whichever is higher, for each type, rating/ model & size used in the system.					
9.1.10	Gauge glass.	1 no for each type & size					
9.2	Erection hardware.						
9.2.1	Transmitter manifold.	10 % of total no used in the system or minimum 2 nos, whichever is higher, for each type, rating/ mode & size used in the system					
9.2.2	Impulse line root valve.	11 % of total no used in the system or minimum 4 nos, whichever is higher, for each type, rating/ mode & size used in the system					
9.2.3	Impulse line fitting.	25 nos of each type & size					
9.2.4	Impulse pipe.	50 mtr of each type & size					
9.2.5	SS tube.	100 mtr of each type & size					
9.2.6	Fitting for SS tube.	100 nos of each type & size					
9.3	Electronic water level indicator.						
9.3.1	Separator level.						
9.3.1.1	Conductivity probe.	6 nos					
9.3.1.2	Complete electronics unit.	1 no					
9.3.1.3	Remote indicator.	1 no					
9.3.1.4	Special tool kit for attending valves & probes.	1 set					
9.3.1.5	Isolating/ root valve.	2 nos					
9.3.1.6	Drain valve.	2 nos					
9.4	Conductivity type level switch.						
9.4.1	Conductivity type level probe.	10 % of total no used in the system or minimum 4 nos, whichever is higher					

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	QUANTITY	QUOTED PRICE (IN Rs)				
			BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL PRICE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(7)=(4)-(6)
9.4.2	Complete electronics unit.	1 set					
9.4.3	Isolating/ root valve.	2 nos					
9.4.4	Drain valve.	2 nos					
9.5	Cable.						
9.5.1	TC cable.	2 km of each type, size, rating of cable					
9.5.2	Control & instrumentation cable.	2 km of each type, size, rating of cable					
9.5.3	Current/ voltage transducers.	1 no of each type/ rating in the system					
9.5.4	Mwatt/ MVAR transducers.	2 no of each type/ rating in the system					
9.6	Control panel and local/ remote control desk, as applicable						
9.6.1	Recorder (If applicable).	1 no of each type & model					
9.6.2	Bar graph indicator (If applicable).	10 % of total quantity used in the system or minimum 1 no, whichever is higher for each type & model					
9.6.3	Digital indicator.	10 % of total quantity used in the system or minimum 1 no, whichever is higher for each type & model					
9.6.4	Mosaic/ conventional type push button station.	10 % of total quantity used in the system or minimum 1 no, whichever is higher for each type & model					
9.6.5	Mosaic type push button station with LED indication.	10 % of total quantity used in the system or minimum 1 no, whichever is higher for each type & model					
9.6.6	Mosaic type LED indicating ststeion.	10 % of total quantity used in the system or minimum 1 no, whichever is higher for each type & model					
9.6.7	Simaphore indicator (If applicable).	2 nos of each type					
9.6.8	Annunciation system.						
9.6.8.1	Each type of PCB (For non-PLC driven system).	1 no of each type					
9.6.8.2	Lamp box with facia & lamps (LED type).	10 % with minimum 2 nos					
9.6.8.3	Hooter.	1 no					
TOTAL (MANDATORY SPARES SUPPLY)							

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	QUANTITY	QUOTED PRICE (IN Rs)				
			BASIC PRICE	ED (As per tender)	CST (As per tender)	FREIGHT	TOTAL PRICE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(7)=(4)+(5)+(6)
NOTE							
1.0	While allocation for mandatory spares supply price is frozen in SCH-2, further break-up of mandatory spare supply price (100 %) of into various components of to be furnished by bidder in this schedule as per prescribed format.						
2.0	Unless stated otherwise, a 'set' means item or sub-items required for each type/ size, range of assembly/ sub- assembly required for complete replacement in one equipment system; it is further intended that the assembly/ sub-assembly which have different orientation (like left hand or right hand, top or bottom), different direction of rotation or mirror image positioning or any other reasons which result in marinating two different sets of spares to be used for subject assembly/ sub assembly, these shall be considered as different type of assembly/ sub assembly.						
3.0	Wherever quantity has been specified as percentage (%), the quantity of mandatory spares to be provided by successful bidder shall be the specified percentage (%) of total population required to meet the specification requirements. In case the quantity of mandatory spares so calculated happens to be in fraction, the same shall be rounded off to next higher whole number.						
4.0	Wherever the quantities have been indicated for each type, size, thickness, material, radius , range, etc, these shall cover all the items supplied and installed and the breakup of these shall be furnished by successful bidder during detail engineering.						
5.0	In case spares indicated in the list are not applcable to the particular design offered by the bidder, the bidder should offer spares applicable to the offered design with quantities genaerally in line with the approach followed in the above list.						

**VOLUME-III
PRICE SCHEDULE, REV-1**

Design, engineering, manufacturing, supply, erection, testing, commissioning, etc of Ventilation System for 2x660 MW units at IB TPS, Banharpalli, Orissa.

TENDER NO PSER:SCT: BNP-M1610:14

SCH-7 - MAIN SERVICE PRICE BREAK-UP

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	ALLOCATION OF TOTAL PRICE (IN PERCENT)	QUANTITY	UNIT PRICE IN Rs.	TOTAL PRICE IN Rs.
(1)	(2)	(3)	(4)	(5)	(6)
BREAK-UP OF MAIN SUPPLY PRICE, SL NO 1.3 OF SCH-2					
1.0	Sheet metal containarized type air washer unit with centrifugal fan (DIDW) with motor, pumps with motors, air washer internals, inlet air louvers, filters, piping as per IS:1239, Part-I (Heavy class galvanised), valves, nozzles, level switch, temp indicators, back wash arrangement, galvanised drain piping, etc as per specification of capacity 2,80,000 CMH. Each air washer has 2 no centrifugal fan (2 x 50% duty) of capacity 1,40,000 CMH at min 80 mm SP.	16.00	8	NO	
2.0	Relay based control panel for air washers as specified (1 no common panel for 2 no air washer in BC bay of unit # 3, 1 no common panel for 2 no air washer in A row side of unit # 3, 1 no common panel for 2 no air washer in BC bay of unit # 4, 1 no common panel for 2 no air washer in A row side of unit # 4).	8.00	4	NO	
3.0	Unitary air filtration unit with centrifugal fan (SISW) with motor, pumps with motors, filters, UAF internals, piping as per IS:1239, Part-I (Heavy class galvanised), valves for auto start of standby equipment, nozzles, level switch, pressure switches, temp indicators, back wash arrangement, galvanised drain piping, etc as per specification (Fan capacity 1,00,000 CMH at 60 mmwc static pressure).	4.00	2	NO	
4.0	Relay based control panel for UAF as specified (1 no control panel for 1 no UAF in ESP building of unit # 3, 1 no control panel for 1 no UAF in ESP building of unit # 2).	4.00	2	NO	
5.0*	Supply air ducting (finished) for above area complete with dampers, grills (with VCD & without VCD), supports (painted) and all accessories as specified.				
5.1*	Finished GSS (zinc coating 180 gms/sqm) duct materials with support structure, etc.				
5.1.1*	18 G	12.60	7000	SQM	
5.1.2*	20 G	14.40	8000	SQM	
5.2*	MS duct with epoxy paint for battery room.	3.00	200	SQM	
5.3*	MS grilles with VCD.	1.00	175	SQM	
5.4*	MS Grilles without VCD.	1.00	10	SQM	
5.5*	Thermal insulation 25 mm expanded polystyrene finished with sand cement plaster as specified for supply air duct.	2.00	1500	SQM	
5.6*	Wall mounted dampers (gravity operated) for different areas.	1.00	30	SQM	
5.7*	Inlet louvres.	1.00	30	SQM	
6.0*	Fire damper				
6.1*	Fire damper	3.00	30	SQM	
6.2*	Motorized actuator with single phase power supply for the above fire damper with auto resetting, limit switches, indication lamps, etc	4.50	45	NO	
6.3*	Fusible link type fire damper.	1.50	15	SQM	
7.0*	Roof extractor units (axial flow type) with hood, disconnect switch and all accessories as specified. Following fan shall have 15 mmwc static pressure.				
7.1*	Capacity 50,000 CMH with motor rating 5.5 KW.	2.40	24	NO	

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	ALLOCATION OF TOTAL PRICE (IN PERCENT)	QUANTITY	UNIT PRICE IN Rs.	TOTAL PRICE IN Rs.
(1)	(2)	(3)	(4)	(5)	(6)
7.2*	Capacity 40,000 CMH with motor rating 5.5 KW.	0.60	6	NO	
7.3*	Capacity 20,000 CMH with motor rating 2.2 KW.	0.60	6	NO	
8.0*	Axial flow supply fans with pre and fine filter (wall mounted) complete with casing, TEFC sq cage induction motors & mounting frame, MS rain protection cowl, bird screen and all other accessories (suitable for 415V/3-phase supply). Following fan shall have 30 mmwc static pressure.				
8.1*	Capacity 10,000 CMH with motor rating 2.2 KW.	0.40	4	NO	
8.2*	Capacity 7,500 CMH with motor rating 1.5 KW.	0.40	4	NO	
8.3*	Capacity 6,000 CMH with motor rating 1.1 KW.	1.00	10	NO	
8.4*	Capacity 4,000 CMH with motor rating 0.75 KW.	0.60	6	NO	
9.0*	Axial flow supply fans with pre filter (wall mounted) complete with casing, TEFC sq cage induction motors & mounting frame, MS rain protection cowl, bird screen and all other accessories (suitable for 415 V/ 3-phase supply). Following fan shall have 20 mmwc static pressure.				
9.1*	Capacity 10,000 CMH with motor rating 1.5 KW.	0.80	8	NO	
9.2*	Capacity 7,500 CMH with motor rating 1.1 KW.	0.80	8	NO	
9.3*	Capacity 6,000 CMH with motor rating 1.1 KW.	0.40	4	NO	
9.4*	Capacity 4,000 CMH with motor rating 0.75 KW.	0.40	4	NO	
10.0*	Axial flow exhaust fans (Bifurcated type, spark proof construction, wall mounted) complete with casing, flame proof motor & mounting frame, MS rain protection cowl, bird screen and all other accessories epoxy painted (suitable for 415 V/ 3-phase supply). Following fan shall have 15 mmwc static pressure.				
10.1*	Capacity 15,000 CMH with motor rating 2.2 KW.	0.50	5	NO	
10.2*	Capacity 10,000 CMH with motor rating 1.5 KW.	0.50	5	NO	
10.3*	Capacity 7,500 CMH with motor rating 1.1 KW.	1.50	15	NO	
10.4*	Capacity 2,000 CMH with motor rating 0.55 KW.	0.60	6	NO	
11.0*	Axial flow exhaust fans (Wall mounted) complete with casing, TEFC sq cage induction motor & mounting frame, MS rain protection cowl, bird screen and all other accessories epoxy painted (suitable for 415 V/ 3-phase supply) as specified. Following fan shall have 10 mmwc static pressure.				
11.1*	Capacity 15,000 CMH with motor rating 1.1 KW.	0.60	6	NO	
11.2*	Capacity 10,000 CMH with motor rating 0.75 KW.	0.60	6	NO	
11.3*	Capacity 7,500 CMH with motor rating 0.55 KW.	2.00	20	NO	
11.4*	Capacity 6,000 CMH with motor rating 0.55 KW.	0.60	6	NO	
11.5*	Capacity 2,000 CMH with Motor rating 0.37 KW	0.50	5	NO	
12.0*	Exhaust fan (propeller type) completes with induction motor & mounting frame MS rain protection cowl, bird screen and all other accessories as specified (suitable for 240 V/ 1 phase). Following fan shall have 5 mmwc static pressure.				
12.1*	Capacity 1200 CMH with motor rating 100 watts.	3.50	35	NO	
15.0	Field instruments, like pressure gauge, temperature gauge, pressure switch, differential pressure switch, flow switch and other instrument required for ventilation system, etc.	3.50	1	LOT	
16.0	Any other item not indicated above, but required to make the system complete in all respects.	0.10	1	LOT	
TOTAL (SERVICE)		100			

SL NO	DESCRIPTION OF EQUIPMENT/ ITEM	ALLOCATION OF TOTAL PRICE (IN PERCENT)	QUANTITY	UNIT PRICE IN Rs.	TOTAL PRICE IN Rs.
(1)	(2)	(3)	(4)	(5)	(6)
NOTE					
1.0	While break-up of main service price (20 %) is frozen in SCH-2, further break-up (100 %, corresponding to 20 %) into various item/ system-wise (Corresponding to 20 % allocation) is furnished above and shall be followed for all contractual purpose. For this, bidder need not to furnish any further break-up.				

**VOLUME-III
PRICE SCHEDULE, REV-1**

**Design, engineering, manufacturing, supply, erection, testing, commissioning, etc of Ventilation System for
2x660 MW units at IB TPS, Banharpalli, Orissa.**

TENDER NO PSER:SCT: BNP-M1610:14

SCH-8 - IMPORT CONTENT

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.	
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/ allocations 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.

VOLUME-III						
PRICE SCHEDULE, REV-1						
Design, engineering, manufacturing, supply, erection, testing, commissioning, etc of Ventilation System for 2x660 MW units at IB TPS, Banharpalli, Orissa.						
TENDER NO PSER:SCT: BNP-M1610:14						
SCH-9 - GUARANTEED POWER CONSUMPTION						
SL NO	DESCRIPTION OF EQUIPMENTS	NO OF EQUIPMENTS		TOTAL GUARANTEED POWER CONSUMPTION FOR EACH EQUIPMENT AT MOTOR INPUT TERMINAL AND CONTROL PANEL	DUTY FACTOR	TOTAL (KW)
		WORKING	STANDBY			
(1)	(2)	(3A)	(3B)	(4)	(5)	(6)=(3Ax4x5)
1.0	Centrifugal fan of capacity 1,40,000 CMH at 80 mmwc static pressure for air washers.	16	0			
2.0	Pumps for circulation of water in spray chamber of above air washer.	8	8			
3.0	Monoblock pump for circulation of water cell deck pad of above air washer.	8	8			
4.0	RE units 50,000 cmh at 15 mmwc.	24	0			
5.0	Centrifugal fan of capacity 1,00,000 CMH at 60 mmwc static pr for UAF.	2	0			
6.0	Pump for above UAF.	2	2			
7.0	Battery rooms.	8	8			
8.0	Coal conveyor tripper floor of mill bay.	14	0			
9.0	DG building.	7	0			
10.0	Plant compressor room.	10	0			
TOTAL (KW)						
NOTE						
1.0	Estimated power consumption (EPC) figure for the system (For working drives only) has been considered as 1250 KW.					
2.0	Successful bidder's guaranteed power consumption at motor input terminals (not shaft power) as furnished above schedule shall be demonstrated by the successful bidder during performance testing.					
3.0	There shall be no technical loading for evaluation of bids. However, in case the power consumption is noted higher than estimated power consumption figure (KW) during the inspection/ PG test, penalty @ Rs 92,600 per additional KW shall be levied on the successful bidder.					

FORMAT FOR NO DEVIATION CERTIFICATE
(To be submitted in the bidder's letter head)

BHARAT HEAVY ELECTRICALS LIMITED,
Power Sector - Eastern Region,
Plot no 9/1, DJ Block, Sector – II, Salt Lake City,
Kolkata – 700 091

Sub	No Deviation Certificate.	
Job	<i>Design, Engineering, Manufacturing, Supply, Erection, Testing, Commissioning Etc of Ventilation System for 2x660 MW Units at IB TPS, OPGCL, Banharpalli, Odisha.</i>	
Ref	1.0	Tender no PSER:BNP-M1610:14
	2.0	BHEL's NIT, vide reference no PSER:SCT:BNP- M1610:3984 Date: 14/10/2014.
	3.0	BHEL's TCN-01, vide reference no PSER:SCT: BNP-M1610:TCN-01 Date: 20-10-2014
	4.0	BHEL's TCN-02, vide reference no PSER:SCT: BNP-M1610:TCN-02 Date: 03-11-2014
	5.0	BHEL's TCN-03, vide reference no PSER:SCT: BNP-M1610:TCN-03 Date: 05-11-2014
	6.0	BHEL's TCN-04, vide reference no PSER:SCT: BNP-M1610:TCN-04 Date: 11-11-2014
	7.0	All other pertinent issues till date.

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification, integrity pact (if applicable) and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized representative of the bidder)