



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

MATERIALS MANAGEMENT

TITLE <u>ELEVATORS FOR PATRATU PROJECT</u>	Phone: +91 431 257 7994 Fax : +91 431 252 0719 Email : joydevsardar@bhel.in
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	Reference Number: Enquiry 1701900691	Enquiry Date: 16.05.2019	Due date for submission of quotation: 06.06.2019
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You are requested to quote the Enquiry number date and due date in all your correspondences. This is only a request for quotation and not an order

BHEL/Trichy is looking for vendors for supply of “ELEVATORS FOR PATRATU PROJECT”

BHEL commercial terms & conditions and all annexure can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units) Bharath Heavy Electricals Limited) under enquiry reference “**1701900691**”

Tenders should reach us before 10:00 hours on the due date Technical bid will be opened at 10:05 hours on the due date Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present.	Yours faithfully, For Bharath Heavy Electricals Limited Sr.Engineer /MM/ BOI
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Bharat Heavy Electricals Limited

HIGH PRESSURE BOILER PLANT, TIRUCHIRAPALLI-620014.

CONTROLS & INSTRUMENTATION



TCI:263:ELEV:N / Rev 01

PAGE 01 OF 10

SPECIFICATION FOR PASSENGER AND GOODS CUM PASSENGER ELEVATOR

REV. NO	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
00	07-10-2015	FRESH RELEASE (In line with MOM dated 15/09/2015 & 16/09/2015)	SR	KB	AKP
01	21-01-2019	Specification updated to include latest requirements	<i>S. Rajeswarar</i>	<i>Pamj</i>	<i>V. Mahalingam</i>

CLAUSE NO.	TECHNICAL DELIVERY CONDITIONS	
1.0	SITE CONDITIONS	
	Altitude above MSL	Less than 1000m.
	Relative humidity	100%.
	Design Ambient Temp.	50 deg.C
	Atmosphere	Tropical, Dusty, Corrosive and highly polluted.
	Wind loads	As per IS-875(Part 3)
2.0	GENERAL	
	This specification is intended to cover the design, engineering, manufacture, inspection, delivery, erection, commissioning, maintenance and services before handing over to NTPC for Passenger Elevator and Goods cum Passenger Elevator in boiler applications. Vendor shall ensure accurate, reliable and trouble-free operation in corrosive, dusty environments.	
3.0	PRE QUALIFICATION REQUIREMENT (APPLICABLE IN CASE OF OPEN TENDER)	
	The elevator offered shall be in satisfactory operation for boiler application in fossil fuel fired thermal power plants of unit rating 250MW or above. Vendor shall submit a list of reference thermal plants (with elevator capacity, landing levels and travel) where their elevator is in satisfactory operation for more than one year. Commissioning and service support for the elevator shall be available in India	
4.0	STATUTORY REQUIREMENTS	
	All registration and statutory inspection fees if any, in respect of his work pursuant to this contract shall be to account of the elevator vendor. However, any registration, statutory inspection fees lawfully payable under the provision of any statutory laws and its amendments from time to time, during erection in respect of the plant equipment ultimately to be owned by NTPC shall be to the account of the NTPC. Should any such inspection or registration need to be re-arranged due to the fault of the vendor or his sub-contractor, the additional fees for such inspection and / or registration shall be borne by the vendor. While the statutory payment shall be made by NTPC for any registration, statutory inspection etc. during erection, the vendor shall be responsible for carrying out and co-ordinating various activities with the statutory authority as well as for obtaining the clearance and registration of the equipment.	
5.0	REFERENCE STANDARDS	
	The Elevators shall be designed in line with the recommendation contained in the latest editions of Standards IS: 14665: 2000 (All Parts) . The equipment shall comply with latest revision of Indian standard and wherever 'IS' is not available, it shall comply with the generally accepted international codes and practices.	
6.0	SCOPE OF WORK	
	i) Design, engineering, manufacture, inspection, delivery, erection, commissioning and handing over. ii) Maintenance & services during guarantee period. iii) Necessary erection / commissioning spares and consumables shall be included in vendor scope. iv) Necessary tools and tackles required for maintenance, testing and inspection shall be covered in vendor scope. v) Necessary chain and pulley block along with hand operated geared trolley arrangement for horizontal movement across the monorail, hoist, rope and hook arrangements at the machine room ceiling to carry out the maintenance and erection of equipment shall be supplied by Elevator vendor. The necessary mono-rail beam will be supplied by BHEL. vi) A steel ladder for access to the pit shall be supplied by the Elevator vendor. vii) Guard to protect the hoist way including temporary barricades at hoist way openings shall be supplied by Elevator vendor. viii) Scaffolding as per erection requirement shall be provided by the Elevator vendor. After completion of handing over activities, the scaffolding materials may be taken back by the vendor. ix) All the electrical equipment including Lift well, Hoist way & machine room lighting with fittings, Power/control/trailing cables, MCCB/MCB & ELCB for 415 V AC 3ph supply and 240 V AC single phase supply (to receive the incoming feeders provided by NTPC) shall be included in the Elevator vendor scope. x) The vendor shall assume all responsibility for proper design and operation of each and every component of the elevator as well as the elevator as a whole. Complying with Indian electricity rules & Indian electricity acts and applicable statutory requirements (of Government of India and applicable States) as well as procedural formalities also shall be taken care by the Elevator vendor.	
7.0	EXCLUSIONS	
	Works not included in elevator contract, but furnished by others in accordance with local codes and regulations and the approved drawing of the Elevator vendor. i) Civil works associated with the Elevator pit. ii) Furnishing and installation of steel beams (Hoisting beams) in the machine room to lift equipment during installation and to facilitate maintenance.	

CLAUSE NO.	TECHNICAL DELIVERY CONDITIONS	
	iii) Machine room civil works including concrete flooring. iv) Steel structures for Columns and associated bracings and approach platforms up to landing doors at each level. v) Supporting steel material between hoist way & car will be provided by BHEL.	
8.0	ELEVATOR PARTICULARS & DESIGN PARAMETERS	
	i) Passenger Elevator and Goods cum Passenger Elevator shall be provided with 1 no. fireman's switch (Alarm Switch). ii) The Elevator shall be located on the side of the boiler as indicated in the plant layout drawing which will be provided during detailed engineering. iii) Entry to the Elevator shall be indicated in the enquiry. Foundation plan and elevation with landing levels shall be as per BHEL drawings. iv) The entire system and accessories should not contain any asbestos material.	
9.0	Design Criteria and Equipment specification for Passenger Elevator & Goods Cum Passenger Elevator.	
	i) Type of service ii) Number required iii) Load on the Elevator iv) Rated speed v) Total travel vi) No. of floors to be served (Landing levels) vii) Entrances viii) Method of control Motor Speed Control: Logic Control: ix) Flooring of Car x) Position of Machine room xi) Design, construction and finish of car	Passenger Elevator and Goods cum Passenger Elevator As per enquiry As per enquiry 0.55 meter/ sec for Goods cum Passenger Elevator 1.0 meter/sec for Passenger Elevator. As per enquiry As per enquiry One number in each floor Variable Voltage variable frequency (VVVF) control. Microprocessor based Control with automatic level adjustment. The control system shall be of field proven design and having satisfactory track record. Chequered plate (6 mm thick). Car floor shall comprise of a smooth non-slip surface. Directly above the Lift shaft SS (ASTM-304 No: 4 Hairline finish)
	xii) Car door xiii) Landing door xiv) Car Enclosure xv) Lighting and fan in the car xvi) Method of operation of car door and landing door xvii) Operation of Elevator xviii) Signals / Indicator	SS (ASTM-304 No: 4 Hairline finish) MS sheet fabricated, smooth finish, spray painted to approved shade. SS (ASTM-304 No: 4 Hairline finish) LED light fittings for illumination level of 100 lux on Car floor shall be provided. Cabin charger ventilation fan with control suitable for operation on 240 V, 50 Hz, AC single phase power supply shall be provided. Adequate ventilation and illumination of car to be ensured. Power operated type – automatic, Horizontal Centre opening / closing car and landing doors. Automatic, simplex, selective, collective with and without attendant, through illuminated pushbutton station located inside the car with provision for locking control in Auto or attendant position. Car position indicator in car, Digital hall position indicator at all floors, Up & down travel direction position indicator, tell-tale lights at all floors. Soft touch keys and digital luminous display in car operating panel and on all floors landings. "Door Open" button and "Door Close" button shall be provided in car operating panel. Battery operated alarm bell and emergency light with suitable battery and battery charger and controls. Audio annunciation and Visual indication for car position indication inside the car and at landing platforms shall also be provided inside the car. Overload warning indicator with visual & audio annunciation. All fixtures shall be in stainless steel face plates. For facilitating the movement of visually & hearing impaired persons, hall lantern and car arrival chimes shall be provided.

CLAUSE NO.	TECHNICAL DELIVERY CONDITIONS		
	xix)	Shaft lighting	The Elevator shaft shall be suitably illuminated by providing CFL fittings at every 3m (three metres) from bottom of Lift well.
10.0	DETAILS OF SPECIAL TREATMENT FOR ELEVATOR		
	As the Elevators are to be installed in a heavily polluted and dusty area in a thermal power station. All the Elevator components shall be given special corrosion resistant treatment.		
	i)	Car guide & Counter weight guide	Anti-corrosive epoxy paint
	ii)	Fish plates	Anti-corrosive epoxy paint
	iii)	Car & Counter weight buffer	Anti-corrosive epoxy paint
	iv)	Supports(Buffer)	Anti-corrosive epoxy paint
	v)	Rail Brackets	Anti-corrosive epoxy paint
	vi)	Bracket & rail fasteners	Zinc-passivated with epoxy painted
	vii)	Tie down bolts	Zinc-passivated with epoxy painted
	viii)	Machine	Anti-corrosive epoxy paint
	ix)	Brake adjusting screw & coupling fasteners	Zinc-passivated
	x)	Bracket	Anti-corrosive epoxy paint
	xi)	Controller cabinet	Anti-corrosive epoxy paint as per industry standard.
	xii)	Hall buttons	Dust-proof with stainless steel hardware.
	xiii)	Car operating panel	Dust proof contact & button with SS hardware. Main face plate SS. All fixtures shall be in Stainless Steel face plates.
	xiv)	Governor	Cover and casting epoxy painted. Other components zinc plated.
	xv)	Governor Tension frame	Hot dip galvanised and anti-corrosive epoxy paint with M.S. shaft for sheave.
	xvi)	Car frame, level brace rods and counter weight frame	Epoxy paint as per IS-1477 Part 1 & 2.
	xvii)	Safety equipment (Linkages)	Zinc-plated
	xviii)	Safety switch and car gate switch	IP-65. Dust proof heavily zinc plated arm, stainless steel shaft and housing as per vendor standard.
	xix)	Guide shoe	Zinc-plated
	xx)	Cam bar mountings and channels	Zinc-plated and anti-corrosive epoxy paint
	xxi)	Counter weight frame	Anti-corrosive epoxy paint
	xxii)	Guide shoe with Nylon ribs	Zinc-plated
	xxiii)	Filter weights	Anti-corrosive epoxy paint
	xxiv)	Rope fasteners	Zinc-passivated and chromate dipped
	xxv)	Hoist rope	Greased, Self-lubricating
	xxvi)	Governor rope	Greased, Self-lubricating
	xxvii)	Landing door	Anti-corrosive epoxy paint
	xxviii)	Alarm and door open bells (Electronic hooter)	Painted.
	xxix)	Junction box	Metallic body - dust proof with Anti-corrosive epoxy paint
	xxx)	Hall position indicator and car position indicator	Dust proof with stainless steel enclosure and Face plate. All fixtures shall be in Stainless Steel face plates.
11.0	MECHANICAL EQUIPMENT		
11.1	ELEVATOR CAR		
	The car platform frame and sling shall be of steel construction. The platform shall be suitably isolated from its sling. The car shall be enclosed with suitably braced and reinforced sheet metal panel. The sheet metal panel shall have ventilation slots at the base. All other exposed steel or cast surfaces shall be painted with anti-corrosive epoxy paint and suitable primer. The car shall be provided with the following accessories: i) Car control station with position indicator inside the car and at landing platforms. ii) An emergency stop switch (shall have two sets of potential free contact. Second one shall be taken and terminated in machine room for further connection by NTPC). This is as per IS 14665 Part 2 Amendment 3 Clause 9.6 - "An emergency stop switch, of manually opened and closed type, shall be provided on top of every lift car and shall be marked conspicuously". iii) A three pin plug & socket with switch on top of Elevator car for use by persons working there on.		

CLAUSE NO.	TECHNICAL DELIVERY CONDITIONS
	iv) Telephone instrument shall be provided inside the car. Connection from the same shall be brought up to the machine room for further connection to plant network by NTPC. Telephone instrument provided inside the car shall have provision for hands free operation also, i.e. Speaker phone shall be provided for hands free operation. v) For better safety, elevator vendor to provide car top barricade on car top to ensure that service personnel stay inside the car region. A selector switch and a set of push buttons shall be provided to operate the elevator locally for inspection and maintenance. The selector switch when set to position "inspection" shall exclude control from other places and movement of the car in the desired direction shall be effected by the push buttons. For normal operation of the elevator, the selector switch shall be set to the position "Working". It shall be possible to operate the elevator only when the appropriate button is kept in pressed condition. The roof shall be strong enough to support at least two persons. vi) Adequate lighting and ventilation shall be provided in the Elevator car. The car shall be fitted with fan of adequate capacity and LED light fittings. The car platform shall be robust in construction and elegant in appearance. vii) The car shall be provided with an emergency alarm push button inside the Elevator car which shall be clearly marked. The alarm shall be clearly audible outside the Lift way in order to obtain assistance in case of breakdown or failure between the floors. viii) Car interior shall be equipped with handrails on three sides.
11.2	CAR DOOR The car door shall be of hollow metal construction minimum 16 gauge thick sheet steel. Sides of the door shall be flush with all seams continuously welded. Guide shoes shall be rubber or roller type designed for operation on unlubricated guides. The car door shall be provided with locking gear of heavy and robust construction, so arranged mechanically and interlocked that the doors cannot be opened unless the Elevator car is within a particular landing zone. Conversely the Elevator shall not move until all the landing doors are closed and interlocked properly. Construction of car door shall meet the requirement of BS 476 (Part 20 & 22). Width of Car Entrance shall be 1800mm for Goods cum Passenger elevator and 1100mm for Passenger elevator. The live load shall be taken into consideration while designing doors, door frame and hanger tracks. The car doors shall be designed such that their closing and opening is not likely to injure a person. Electronic door detector (Infra-red curtain type) shall be provided. Mechanical device shall also be provided to re-open the door if presence of person or any object is detected in between the door.
11.3	LANDING DOORS All landing openings in the Lift well enclosure shall be protected with doors which shall extend the full height and width of the landing opening. The type of door provided shall be similar to the Elevator car door. Every landing door shall be fitted with a locking device. The door shall be suitably interlocked so that they cannot open unless the car is within a particular landing zone. The locking device is closed until the door is closed. The levers operating the locking devices shall not interfere with the landing side or Elevator enclosures. Landing doors of the elevators shall have fire resistance of at least two hours as per IS 14665 Part 2/Sec-1 Amendment no.1. These doors shall also be smoke tight as far as possible. Construction of Landing door shall meet the requirement of BS 476 (Part 20 & 22). Rain canopy for landing door operating panel shall be provided.
11.4	LOAD PLATE A load plate displaying the rated load of the Elevator in terms of persons and kilograms shall be fitted in the car in a conspicuous position.
11.5	SUSPENSION ROPES The car and the counter weights shall be suspended by steel wire ropes. Chain shall not be used for suspension. Not less than four independent stranded steel wire suspension ropes shall be used for car or counter weights of the Elevator with traction drive. The diameter of the stranded rope shall not be less than 12.5 mm and minimum factor of safety shall not be less than 12. The suspension ropes shall conform to latest edition of IS 2365 – "Specification for steel wire suspension ropes for Lifts and hoists".
11.6	SHEAVES AND PULLEYS All driving sheaves and pulleys fixed to and revolving with the shaft shall be fixed by means of sunk keys of sufficient strength and quality. Sheaves and pulleys shall be made of cast iron as per the latest edition of IS 14665 and free from cracks, sand holes and other injurious defects. They shall have suitable flanges and smoothly machined rope grooves. The diameter of the sheave or pulley shall be as specified in the latest edition of IS 14665 or equivalent International Standards.

CLAUSE NO.	TECHNICAL DELIVERY CONDITIONS
11.7	SHAFT
	Shafts and axles shall be forged steel. They shall have sufficient rigidity and bearing surface. Any shaft when stepped shall be turned to a reasonable radius at the point of reduction.
11.8	COUNTER WEIGHTS
	The Elevator shall be provided with suitable counter weights located in the Lift shaft. The counter weight shall be designed for smooth and easy operation of the Elevator and shall be in accordance with Indian Standard (or) equivalent International Standard. Suitable counter weight screen shall be provided in the Elevator shaft. The counter weights shall consist of cast iron weight contained in structural steel frame. The traction should be such that no appreciable slip may occur but that slip shall be free to take place upon the landing of either the car or the counter weights.
11.9	GUIDE RAILS
	Guide rails for the car and counter weights shall be machined 'T' sections and continuous throughout the entire length and shall be provided with adequate steel brackets or equivalent fixing of such design and spacing between brackets shall be such that to avoid any deflection during the normal operation. Guide rails section shall be adequate to withstand the forces resulting from the application of the safety gear when stopping the counter weights or fully loaded car. The guide shoes or their lining shall be easily renewable, adjustable and self-lubricated. Guides shall be of such length that it shall not be possible for any of the car or the counter weight shoes to run off the guides.
11.10	BUFFERS
	Sufficient number of buffers of spring loaded type shall be fitted below the Elevator car and counter weights. The buffers shall be capable of stopping the car or counter-weights without permanent damage or deformation to itself or any part of the Elevator equipment. The number of buffers shall be so fixed as to ensure proper sharing of the impact loads by all of them.
11.11	EMERGENCY SAFETY DEVICES AND BRAKES
	The Elevator shall be provided with safety device attached to the Elevator car frame and placed beneath the car. The safety device shall be capable of stopping and sustaining the Elevator car up to governor tripping speed with full rated load in car. The application of the safety device shall not cause the Elevator platform to become out of level in excess of 3 cm/m measured in any direction. Slack rope switches, if necessary, shall also be provided. The Elevator vendor shall also provide personnel evacuation system during the power failure to the Elevator. The Machine shall be provided with direct current spring set, solenoid release double shoe brakes of sufficient capacity to stop the car at any position with the design load. These brakes shall be designed in such a way that it gets applied automatically in the event of power failure. In case fire alert, a safety device shall ensure automatic return of the cabin to the floor access level. Emergency indicator to indicate the location of elevator in case of elevator being stuck up between the floors through automatic flushers (both visual & audio).
11.12	AUTOMATIC RESCUE DEVICE (ARD)-(BATTERY DRIVE)
	Vendor shall provide a modern advanced electronic drive system of "RESCUING Passengers Trapped in an ELEVATOR" in case of power failure. In addition to the above, bell and cranking device to be provided with hand wheel connected with motor shaft for manual lowering of elevator to the nearest landing level. For all Elevators with ARD, an audio & visual indicator shall be provided inside the Elevator car to alert the person trapped inside that he/she is being rescued. Capacity of battery shall be such that minimum three rescue operations can be performed without recharging. ARD panel shall be suitable for floor mounting.
11.13	OVERLOAD DEVICE
	Every passenger Elevator shall be provided with an overload device, which will prevent the Elevator from starting in case the Elevator car is loaded to 110 percent of the rated capacity of the Elevator or more. Elevator shall remain stationery with door open. Audio & visual warning device (Load weighing device) shall be provided to alert the passenger in case of overload.
11.14	OVER SPEED GOVERNOR AND GOVERNOR ROPES
	Governor shall be located where there is sufficient room for their proper operation and where they cannot be struck by the Elevator car or counter weight in the event of over run. Each governor shall be marked with tripping speed in terms of car speed in m/sec and the motor control and brake control circuit shall be opened before or at the time the governor trips. As per IS 14665 (part4/Sec 4):2001, the nominal rope diameter for over speed governor shall be minimum 6mm. However for elevators where travel height is more than 90 meters, the nominal rope diameter for over speed governor shall be minimum 8mm.

CLAUSE NO.	TECHNICAL DELIVERY CONDITIONS
11.15	LEVELLING DEVICE
	The Elevator shall be provided with a two way automatic levelling device. The levelling device shall take care of overrun and under run of the car and rope stretch, such that car floor is within 6.0 mm from the landing level at all floors while in operation. Aprons of sufficient depth shall be fitted to the car floor to ensure that no space is permitted between the threshold and the landing while the car is being levelled to floor.
11.16	MACHINE ROOM AND OVERHEAD STRUCTURES
	All the overhead machinery shall be supported on beam to be furnished by the vendor. The machinery support beam shall rest on top of or be designed to be framed into the vendor's structural steel frame for the boiler house. The Elevator drive controller and all other apparatus and equipment of Elevator installation, except such apparatus and equipment which function in the machine room shall be located at the top of the Lift well. Adequate machine room and hoist way lighting shall be provided by the Elevator vendor. Machine room shall be provided with minimum 200 Lux illumination. Sound reducing materials below machines in machine room shall be provided. The maximum load transmitted by the heaviest equipment to the machine room floor and other structures like guides etc. shall be furnished by the Elevator vendor. MACHINE ROOM Air conditioning Machine room shall be provided with 5 tonnes or with 1 No. of two tonne and 2 nos. of 1.5 tonne capacity A/C units (minimum). If higher capacity of A/C is required for proper cooling, the same is to be indicated in the offer.
11.17	TERMINAL SLOW DOWN NORMAL STOPPING AND FINAL LIMIT SWITCHES
	Every electric lift shall be provided with upper and lower terminal slowdown and normal stopping limit switches arranged to stop the car automatically within the limits of top car clearance and bottom run by (over travel) from any speed attained in normal operation in accordance with IS 14665 (Part 3/Sec 1): 2000. Such limit switches shall act independently of the operating device and the final limit switches. Final limit switches in accordance with IS 14665 (Part 3/Sec 1): 2000 shall be provided to stop the car automatically within the top and bottom clearance independent of normal operating device and the terminal stopping device. The switches shall be so arranged so as to open before the buffers are engaged. The final limit switch shall act to prevent movement of the car under power in both directions of travel and shall after operating, remain open until the Elevator car has been moved by a hand operating mechanism within the limits of normal travel. Elevator shall be suitable for continuous 24 hours round the clock operation.
12.0	ELECTRICAL EQUIPMENT AND CONTROLS
12.1	OPERATION AND INTERLOCKS
	The operation of the Elevator shall be simplex, selective, collective, and automatic, with or without operator. The Elevator operation shall conform to the following requirements. i) The operation of the Elevator shall be through a push button station located inside the car. ii) The Elevator shall not move unless the car door, landing door and all other protected openings connected with the control circuit are closed. iii) Two push buttons, one for upward and the other for downward movement at each intermediate landing and one push button at each terminal landing shall be provided in the landing floors in order to call the car. iv) The landing doors shall be interlocked so that the landing door at any floor shall not open when the Elevator is not on that floor. v) Push button shall be fixed in the car for holding the doors open for any length of time required.
12.2	ELEVATOR DRIVE
	The Elevator drive shall be equipped with automatic electromagnetic coil type brakes. The Elevator shall be driven by a drive suitable for method of control offered by the Elevator vendor. No friction gearing or clutch mechanism shall be used for connecting the main driving gear to the sheaves.
12.3	ELECTRIC MOTORS
	Motors shall be as per IS 325 and suitable for the Variable Voltage Variable Frequency (VVVF) application. All motors shall be squirrel cage induction type, suitable for operation at 415 V (+/- 10% variation), 3 phase, 3 wire, 50HZ (+3% to -5% variation) supply suitable for frequent starting with S4 duty class (S3 duty class also acceptable, if necessary for the application and subject to end user acceptance), CDF 40%, Maximum 150 starts per hour at 50 Deg. C ambient and with IP 54 protection class for enclosures. Motor pull out torque shall be at least 275% of

CLAUSE NO.	TECHNICAL DELIVERY CONDITIONS
	rated torque (Pull out torque 240% of rated torque also acceptable, if necessary for the application and subject to end user acceptance). Motor shall be of TEFC type. Motor insulation shall be class F or superior with temperature rise limited to 70 Degree Celsius. Motor paint shade shall be RAL 5012.
12.4	CONTROLLERS
	The controllers shall be designed to start, accelerate, stop and reverse the elevator when the appropriate push buttons are pressed. The controllers shall be advanced microprocessor based having latest design. Contact finger buttons shall be easy to adjust and replace. The speed control device shall give smooth, easy and accurate speed control. The Elevator controls shall be housed in dust and vermin proof enclosures. The controls shall be wired with stranded copper conductor cables. All equipment mounted shall be neatly labelled as per wiring diagram. Ventilating louvers are to be provided in the panels. Control panel shall be suitable for floor mounting.
12.5	CABLES AND INTERNAL WIRING
	Wiring shall be done as required to interconnect all Elevator electrical equipment including all power wiring from the main supply source in the machine room. Power cables shall be 1100 V grade multi core, stranded with XLPE insulation, FRLS type ST2 inner sheathed, galvanised steel wire armoured and overall extruded FRLS, Type ST2 PVC outer sheath. If unarmoured cables are used all the cabling/wiring between the equipment in the lift machine room and between machine room and equipment in the lift well and at the landings shall be wired in HDP conduit/ galvanised steel conduit. The circular trailing cables shall conform to IS 4289 Part-I (Elastomer insulated) or IS 4289 Part II (PVC insulated) / Flat type trailing cable shall conform to IEC 60227-06. All other cables shall conform to latest edition of IS: 7098, IS:1554 & IS:5831. Following FRLS properties shall be complied with. a) Oxygen index of min. 29 (as per IS:10810 Part-58) b) Acid gas emission of max. 20% (as per IEC-754-I). c) Smoke density rating shall not be more than 60% (as per ASTM D-2843).
12.6	CABLING AND EARTHING
	Earthing shall be carried out as per IS 14665, IS 3043 and Indian Electricity Rules. The Elevator structures, motor, frames, metal cases and all electrical equipment including conduit, cable armouring and guards shall be properly bonded and earthed by two separate and distinct connections. The earth connection station mat shall be done by NTPC.
12.7	POWER SUPPLY
	One three phase 415V, AC, 50 Hz Emergency Supply for Elevator main motor, and one single phase 240V, AC, 50Hz supply feeders for lighting, air conditioner and control panels will be provided in the machine room by BHEL. The exact Power requirement in kVA of three phase supply and single phase power supply shall be indicated in the offer itself by the vendor. All other power supplies required for elevator shall be derived by the vendor from these power supplies. The junction box having MCCB/MCB/ELCB Isolation of adequate rating shall be arranged by the vendor to receive the above supplies. The Elevator vendor shall also indicate the proposed location of junction box in the machine room. All further distribution, cabling and wiring from the junction box shall be carried out by the Elevator vendor. The vendor shall arrange to tap power supply required for constructional purposes from the point terminated by NTPC.
13.0	OTHER REQUIREMENTS
	Electric high speed door operators for the opening and closing of the car doors and landing doors shall be furnished and installed. The car and landing doors shall be mechanically connected and shall move simultaneously in opening and closing. The car door and landing door shall be power closed and shall be controlled in opening and closing by oil cushioning mechanism built into the gear unit or alternate arrangement equally / better than this. Necessary lockable switches shall be provided in the Elevator machine room to control the operation of the door. Should the electric power fail, it must be possible for the doors to be opened from within the car, provided the car is exactly at the landing level. Overload relays shall be provided to protect the drive motor against overload or a power failure. Suitable protection shall be provided on the controller to protect the Elevator equipment from phase reversal, low voltage. Suitable arrangement shall be provided to intimate Boiler unit control room during emergency in the form of audio-visual alarm.

CLAUSE NO.	TECHNICAL DELIVERY CONDITIONS
	Complete set of special tools and tackles required shall be supplied along with Elevator. Each tool and tackle shall be stamped so as to be identified easily for its use and size. Tools shall be supplied in a steel tool box. The list of tools and tackles shall be furnished along with the offer by the vendor. One number Fire extinguisher (suitable for electrical fire) shall be provided along with each elevator.
14.0	SPARES
	The vendor shall furnish the List of start-up, commissioning and recommended spare parts during normal operation separately in the offer with item wise price under the title "Schedule of Spare Parts". The spares recommended above with unit prices shall be valid for at least for three years of normal consumption for operation of the plant. The vendor shall also indicate the service expectancy for these spare parts under normal operating conditions before the replacement is necessary. All the spares offered shall be strictly interchangeable with the parts for which they are intended for replacement.
15.0	DRAWINGS / DOCUMENTS
	The following preliminary documents / drawings should be enclosed along with the offer without fail. i) Detailed description of the system offered. ii) List of thermal power plants where the offered system is in operation. iii) Performance certificate of the system offered. iv) Write-up on interlocks, controls and safety devices provided. v) General Arrangement of Elevator (including hoist way, pit well etc.) vi) General Arrangement of machine room and equipment in machine room. vii) Electrical control scheme with legend and write-up. viii) Machine room Air-Conditioning details. ix) Foundation and loading details of machine room floor and the concrete structure. x) Filled in vendor data sheet for Elevator. xi) Filled in vendor quality plan for Elevator. xii) The major components of Elevator with weight details to be indicated by the vendor in the offer itself. xiii) The make, type, capacity, range of all bought out items xiv) Any deviation from the enquiry specification shall be indicated in the "Sub-delivery Enquiry Deviation Format" attached along with the enquiry. No deviations, unless explicitly taken up by vendor in the enquiry stage itself in the said format and accepted by BHEL in writing, shall be considered after firm order. In case no deviations are there, vendor to indicate "No-deviation" in the fully filled up format. The following documents / drawings shall be submitted within 15 days from the firm order. i) Elevator General Arrangement drawings for BHEL/NTPC approval. ii) Elevator Technical Datasheet Separate contract-wise drawing approvals shall be obtained by vendor before manufacture of elevators.
16.0	WARRANTY
	The Elevator Vendor shall guarantee that the materials, workmanship and performance of the apparatus installed under this specification is perfect in every respect and that they will make good of any defects (not due to careless operation) which may develop within 18 months from the date of formal handing over of the equipment.
17.0	MAINTENANCE
	After the completion of the installation, maintenance and service for the equipment furnished under this specification shall be provided by the vendor for a period of eighteen months. This service shall include monthly inspections of the installation during regular working hours by trained employees and shall include all necessary adjustments, greasing and oiling, cleaning, supply of genuine standard parts to keep the equipment in proper operation except any part made necessary by misuse, accidents or negligence caused by others.
18.0	ACCEPTANCE
	After erection, the performance of the Elevator shall be tested for ascertaining the conformity with the specification and upon satisfactory completion of the tests, the Elevator will be taken over. The responsibility for obtaining commissioning and handing over protocol signed by NTPC lies with the Elevator vendor.
19.0	QUALITY ASSURANCE AND TESTING
	i) Vendor shall prepare Quality plan in NTPC format along with enquiry. This QP will be reviewed by BHEL and if any comments given by BHEL shall be incorporated by vendor. ii) In case of order receipt, this QP will be submitted for NTPC approval. Any comments given by NTPC shall be incorporated by vendor for further approval by NTPC.

CLAUSE NO.	TECHNICAL DELIVERY CONDITIONS
	iii) In case of vendor having NTPC approved Reference Quality Plan (RQP), Endorsement sheet shall be submitted by vendor for getting NTPC approval. iv) Elevators are subject to inspection by BHEL & NTPC and inspection call shall be given 15 days in advance. v) Materials can be despatched only after obtaining CHP clearance & MDCC clearance from NTPC.
20.0	PACKING
	Packing shall be done as per vendor standard. However, the following points to be taken are by the vendor. At the time of shipment equipment shall be clean inside and outside. The vendor shall pack all equipment and materials furnished by him in such a manner as to ensure protection against damage and deterioration during shipment and storage which includes local transportation and site storage. Modules, or electronic equipment shall be wrapped and sealed in plastic to protect from rain and dust. The plastic wrapping shall include, as required, the use of a desiccant to protect the equipment from excessive moisture. All the items shall be treated and packed for long storage under the climatic conditions prevailing at site. Each item part shall clearly be marked or labelled on the outside of the packing in single case. The general description of the contents shall be shown on the outside of such cases. All cases, containers and other packages shall be marked suitably and numbered for the purpose of identification. All cases, containers and other packages are liable to be opened for such examination as may be felt reasonable by the BHEL / NTPC. The vendor shall bear in mind the shipment of the equipment having ball or roller type bearings for which the following special provisions shall apply: i) If temporary transit bearings are fitted to such equipment, then, additionally, two complete sets of service bearings shall be included and shipped with such equipment. ii) If the item of the equipment is shipped with service bearings in position, then additionally one complete set of service bearings shall be included and shipped with such equipment. In either or both of the above provisions, the cost of the additional sets of bearings shall be included in the offer. iii) If replacement of any bearing is required due to damages during shipment or other causes, the spare bearings shall be used to replace at free of charge.
21.0	O&M MANUALS
	Vendor to furnish standard O&M manuals for each capacity of elevator, immediately after the release of first purchase order for BHEL's further use (Two copies of CD-ROM). The O&M manual prepared shall be such that the same shall be usable along with the relevant drawing for each project. Project wise O&M manuals along with project-wise details, if any, has to be updated by vendor and handed over to site (NTPC & BHEL/Site, after commissioning of elevator) in necessary format as desired by NTPC.
22.0	LIST OF ELEVATOR OPTIONAL PRICES
	The following optional prices to be indicated along with offer. i) Rate for addition / deletion of 1 number landing. ii) Rate for addition / deletion of 1Mtr. in travel height. iii) Additional price of Automatic Rescue Device (ARD) for increased height of 15 Mtrs. iv) Audio annunciation in the form of metres



MATERIALS MANAGEMENT / BOI
SUB-DELIVERY ENQUIRY DEVIATION FORMAT

Page : of

Schedule of deviation to
Sub-delivery Enquiry No. :

Description :

Documents :

Drawing No. :

Quality Plan :

Packing Procedure :

Document reference	BHEL called for	Firm's alternative offer

Certified that other than the above deviations, we are accepting all the other specifications and requirements in full to your Enquiry.

Station :

Date :

Signature of firm's representative

Firm seal

Note : 1. Deviations should be taken only in the extreme case
2. If necessary, use additional sheets with page control number

ELEVATOR LOCATION DIAGRAM

(DRAWING NO. CI:1828:ELEV:001)

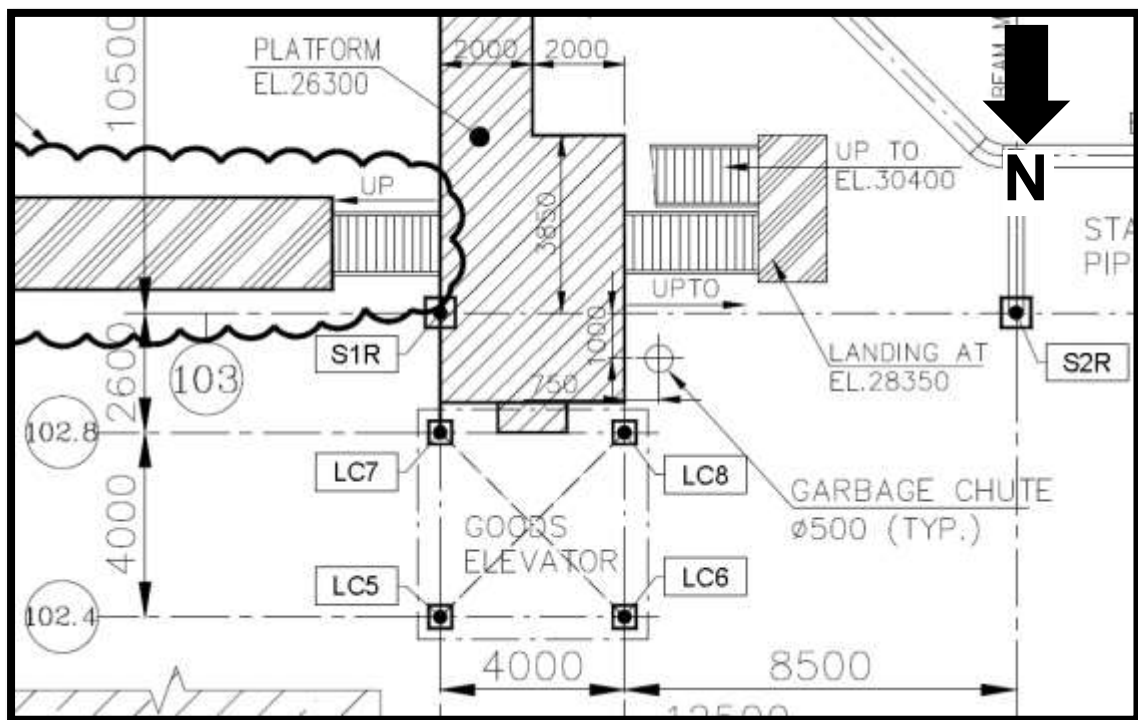
PROJECT:

**PATRATU VIDYUT UTPADAN NIGAM LIMITED,
PATRATU STPS EXPANSION PHASE-1**

3 x 800 MW, Customer No. 1828, 1829 & 1830

1) Elevator Location diagram for GOODS CUM PASSENGER ELEVATOR

- a) Capacity 3000 Kg, Speed 0.55m/Sec.
- b) Lift well size: 4000mm X 4000mm.
- c) Location of Car entrance and Trap door are on the boiler side.
- d) Supporting channel for fixing car bracket and counterweight bracket will be provided by BHEL.



PRE-QUALIFICATION REQUIREMENT

The elevator offered shall be in satisfactory operation for boiler application in fossil fuel fired thermal power plants of unit rating 250MW or above. Vendor shall submit a list of reference thermal plants (with elevator capacity, landing levels and travel) where their elevator is in satisfactory operation for more than one year. Commissioning and service support for the elevator shall be available in India

OFFER WILL BE CONSIDERED ONLY ON FULFILLING THE ABOVE PQR. VENDOR TO SUBMIT THE
REFERENCE LIST

[illegible]

	CORPORATE QUALITY ASSURANCE MAIN CONTRACTOR EVALUATION REPORT			

i.	Main Contractor					
ii.	Project					
iii.	Package Name		Package No			
iv.	Proposed Item/Scope of Sub-contracting					
v.	Item covered under	Schedule-1		As per contract clause No-		
		Schedule-2				
vi.	If item is Schedule-1 and proposed sub-vendor is indigenous, Main Contractor to explain how the contractual provisions will be fulfilled-					
vii.	Name and Address of the proposed Sub-vendor's works					
viii.	PO placement date/ Start of manufacturing (if self-manufactured) as per L2 network					
ix.	Item Description (Type/Size/Rating/Scope of Sub-Contracting)	Total quantity of proposed item envisaged in this package (Nos/ Running Meters/ Kgs/ Tons etc)	Quantity proposed to be procured from proposed sub-vendor (Nos/ Running Meters /Kgs /Tons etc)	Per month quantity requirements as per project schedule	Actual monthly production capacity viz-a-viz the monthly proposed order requirement	
x.	Supply experience of the proposed sub-vendor (including supplies to Main Contractor, if any) for similar item/scope of sub-contracting, for last 3 years (<i>Note:- Only relevant experience details wrt proposed item/scope of subcontracting to be brought out here</i>)					
	Project/Package	Customer Name	Supplied Item (Type/Rating/Model /Capacity/Size etc)	PO ref no/date	Supplied Quantity	Date of Supply
We confirm that as per our assessment, the proposed sub-vendor has requisite capabilities and supply experience for the proposed item/scope of sub-contracting.						
Name:		Desig:		Sign:		Date:

Company's Seal/Stamp:-

Format No. : QS-01-QAI-P-04/F1-R3

1/1

Engg. div./QA&I

	CORPORATE QUALITY ASSURANCE SUB-VENDOR QUESTIONNAIRE
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i.	Item/Scope of Sub-contracting			
ii.	Address of the registered office	Details of Contact Person (Name, Designation, Mobile, Email)		
iii.	Name and Address of the proposed Sub-vendor's works where item is being manufactured	Details of Contact Person: (Name, Designation, Mobile, Email)		
iv.	Annual Production Capacity for proposed item/scope of sub-contracting			
v.	Annual production for last 3 years for proposed item/scope of sub-contracting			
vi.	Details of proposed works			
1.	Year of establishment of present works			
2.	Year of commencement of manufacturing at above works			
3.	Details of change in Works address in past (if any)			
4.	Total Area			
	Covered Area			
5.	Factory Registration Certificate	Details attached at Annexure – F2.1		
6.	Design/ Research & development set-up (No. of manpower, their qualification, machines & tools employed etc.)	Applicable / Not applicable if manufacturing is as per Main Contractor/purchaser design Details attached at Annexure – F2.2 (if applicable)		
7.	Overall organization Chart with Manpower Details (Design/Manufacturing/Quality etc)	Details attached at Annexure – F2.3		
8.	After sales service set up in India, in case of foreign sub-vendor (Location, Contact Person, Contact details etc.)	Applicable / Not applicable Details attached at Annexure – F2.4		
9.	Manufacturing process execution plan with flow chart indicating various stages of manufacturing from raw material to finished product including outsourced process, if any	Details attached at Annexure – F2.5		

	CORPORATE QUALITY ASSURANCE SUB-VENDOR QUESTIONNAIRE
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10.	Quality Control exercised during receipt of raw material/BOI, in-process , Final Testing, packing	Details attached at Annexure – F2.6			
11.	Manufacturing facilities (List of machines, special process facilities, material handling etc.)	Details attached at Annexure – F2.7			
12.	Testing facilities (List of testing equipment)	Details attached at Annexure – F2.8			
13.	If manufacturing process involves fabrication then-	Applicable / Not applicable			
	List of qualified Welders	Details attached at Annexure – F2.9 (if applicable)			
	List of qualified NDT personnel with area of specialization				
14.	List of out-sourced manufacturing processes with Sub-Vendors' names & addresses	Applicable / Not applicable Details attached at Annexure. –F2.10 (if applicable)			
15.	Supply reference list including recent supplies	Details attached at Annexure – F2.11 (as per format given below)			
Project/ package	Customer Name	Supplied Item (Type/Rating/Model /Capacity/Size etc)	PO ref no/date	Supplied Quantity	Date of Supply
16.	Product satisfactory performance feedback letter/certificates/End User Feedback			Attached at annexure - F2.12	
17.	Summary of Type Test Report (Type Test Details, Report No, Agency, Date of testing) for the proposed product (similar or higher rating) Note:- Reports need not to be submitted			Applicable / Not applicable Details attached at Annexure – F2.13 (if applicable)	
18.	Statutory / mandatory certification for the proposed product			Applicable / Not applicable Details attached at Annexure – F2.14 (if applicable)	
19.	Copy of ISO 9001 certificate (if available)			Attached at Annexure – F2.15	
20.	Product technical catalogues for proposed item (if available)			Details attached at Annexure – F2.16	
Name:		Desig:		Sign:	Date:

Company's Seal/Stamp:-

ANNEXURE – A

TECHNO - COMMERCIAL TERMS AND CONDITIONS

Description of the Material:		Elevator and Mandatory spares
BHEL Tender No. & Date		
GENERAL INFORMATION		
QUOTATIONS: Interested bidders / Suppliers shall submit their offer through e-Procurement mode at https://bhel.abcpocure.com Offers in any other mode will not be accepted. For Enterprise Procurement System (EPS) Bidders/Suppliers are requested to follow these steps. In case of any assistance, please contact for support in this link: https://bhel.abcpocure.com/EPROC/contactus The bidder has to keep track of any changes by viewing the addendum / Corrigendum's Issued by the Purchaser on time-to- time basis in the E-Procurement platform. The Company calling for tenders shall not be responsible for any claims/problems arising out of this.		
Sl. No.	Terms and conditions	Vendor's confirmation
1	The Tender will be operated on Two Part Bid basis and you are requested to submit Techno-Commercial bid and Price Bid in e-procurement site. (Vendors who are not having DSC, shall obtain the same & quote accordingly). For details related to bidding through e-procurement site (abcpocure) please visit URL- https://bhel.abcpocure.com . Part-I: Techno-Commercial bid (Unpriced Quotation for Elevator with container, Mandatory spares and Erection & Commissioning). Part-II: Priced bid (Elevator with container, Mandatory spares and Erection & Commissioning charges).	Noted
2	Technical Offer: The offer shall be as per technical documents attached along-with the Enquiry. Deviations, if any, shall be indicated in the Technical Deviation Format attached with the enquiry.	Noted
3	Firm Price: The quoted / finalised rates shall be Firm till execution of the supplies. Vendor has to quote price according to the requirement as detailed in the attached technical documents. Unless there is a change in technical specification from BHEL side, impact price will not be allowed. Vendor to clearly study the requirement in the tender and this Annexure. In case of any query, please contact: Mr. M Sudala Srinivasan, Dy.Manager/Materials Management /BOI Tel: 0431-2575478, email: mssvasan@bhel.in Mr. Joydev Sardar, Sr.Engineer/Materials Management/BOI or Tel: 0431-2577994, email: joydevsardar@bhel.in Mr. N Mohan, Asst./Engineer /Materials Management/BOI Tel: 0431-2577446, email: mohann@bhel.in and get your queries cleared before submitting the offer in EPS. Rates / other Price elements once quoted in the Enterprise Procurement System (EPS) cannot be changed and shall remain final.	Noted
4	Package Details: Elevator with container, Mandatory Spares, Erection & Commissioning charges. Partial quantity offer will be rejected. The evaluation of offers will be done on Total Cost to BHEL on single Package basis, which includes Elevator with container & Mandatory Spares on Destination basis; along-with Erection & Commissioning charges and applicable Taxes & Duties. The Erection & Commissioning charges has to be quoted separately for each Elevator.	Noted
5	Indigenous vendors: Each Elevator shall be sent to Project site in a Single Container and the mandatory spares shall be sent as a separate consignment to BHEL Stores Trichy. Foreign Vendors: Each Elevator shall be sent in a Single Container and the mandatory spares shall be sent as a separate Consignment.	Noted
6	Inspection Indigenous vendor: The Inspection will be done by BHEL/TPIA & NTPC at vendor works. Foreign vendor: The Internal Inspection Reports to be forwarded for reviewing by BHEL & Customer.	Noted
7	Only Manufacturers are eligible to participate in this bid.	Noted
8	The Indian Representatives / Agents of Foreign vendor may participate on behalf of their Principals subject to submission of Authorisation letter (latest, within one year)	Noted
9	Foreign vendor: Should indicate the agency in India to carry out the Erection and Commissioning, handing over to BHEL/end customer.	Noted
10	Offers will be considered subject to Customer / NTPC approval and accordingly the Price Bid of the customer approved vendors only will be opened, with due intimation. You are requested to submit the filled NTPC Questionnaire along with the relevant credentials for taking up with NTPC approval.	Noted
11	Delivery terms for Indigenous vendors: Indigenous vendors shall submit offer on F.O.R- basis to Patratu Project Site, Jharkhand State for Elevator with container and F.O.R basis to BHEL Stores Trichy for Mandatory Spares. The offer shall be on inclusive of Packing, Forwarding & Freight; Insurance shall be on BHEL scope. (Delivery term Ex-Works, Freight to pay basis are not acceptable to BHEL)	Accepted
12	Inco terms for Foreign vendors: Import vendors shall submit offer on C.F.R-Chennai Sea Port basis, for Elevator with container and Mandatory spares. Transit Insurance will be on BHEL scope.	Noted
13	Import Vendors: Please indicate the Port of loading. Port of discharge: Chennai Sea port	
14	Import Vendors: Weight of the Total Consignment shall be indicated.	

15	<u>Indigenous Vendor Payment terms (Non-MSE):</u> ➤ Elevator with container: 80% direct payment after 60 days from the date of dispatch against site acknowledgement and 20% after handing over protocol at site, against 10% PBG, valid for the warranty period. ➤ Elevator Mandatory spares: 100% direct EFT payment after 60 days from the date of receipt and acceptance of materials. ➤ Erection & Commissioning: 100% payment will be made on handing over of the Elevator on submission of handing over protocol with claim, along with applicable taxes/duties on submission of Invoice along with HOC protocol signed by vendor, BHEL Site and end customer. Note: PBG format is attached with the Enquiry.	Accepted
16	<u>Foreign vendors Payment terms:</u> ➤ Elevator with container: 80% payment on CAD basis after 60 days from the date of receipt of documents through Bank and 20% after handing over protocol at site against 10% PBG valid for the warranty period. or 80% usance LC with 60 days credit and 20% after Erection & Commissioning against 10% PBG for the warranty period. ➤ Elevator Mandatory spares: 100% payment on CAD basis after 60 days from the date of receipt of documents, specified in PO, at BHEL bank. or 100% usance LC with 60 days credit will be opened one month prior to material readiness. ➤ Erection & Commissioning: 100% payment will be made on handing over of the Elevator on submission of handing over protocol with claim along with applicable taxes/duties on submission of Invoice along with HOC protocol signed by vendor, BHEL Site and end customer. Note: PBG format is attached with the Enquiry. Bank Charges outside India are to be borne by vendor only and the bank charges within India shall be borne by BHEL. If supplier insists for LC, only Usance LC with 60 days credit will be opened one month prior to material readiness, further loading @ 1.5% on the offered value will be considered. If Hence supplier shall intimate the material readiness accordingly for opening of LC. LC validity period will be 90 days and for any extension, applicable charges will be to supplier's account.	Accepted / Not Accepted
17	Deviation in Payment Terms: Any deviation in the above Payment Terms, any other conditions in payment terms or any other payment terms will not be accepted and offers will not be considered.	Noted
18	Liquidated damages: Delivery of the goods specified in the purchase order should be made within the time prescribed. Failure to dispatch the materials in time as per the delivery quoted in our Purchase Order would make the supplier liable to an unconditional LD at the rate of 0.5% of the Total order value per week of the delay or part thereof subject to a maximum of 10% of the total order value. Loading Criteria LD / Penalty: Any deviation on BHEL LD / Penalty clause, loading (Basic material Value) will be applied to the extent to which it is not agreed by the bidder. LD is for Total Order Value and not for undelivered goods. If LD for undelivered portion is only acceptable, then a loading of 10% on Basic Material Value will be applied.	Accepted / Not Accepted
19	Guarantee / Warranty Period: The Vendor shall guarantee that the materials, workmanship and performance of the apparatus installed under this specification is perfect in every respect and that they will make good of any defects (not due to careless operation) which may develop within 18 months from the date of formal handing over of the equipment. Deviation in Guarantee / Warranty Period: No Deviation is permitted. If still vendor offered any deviation on the Guarantee / warranty period. Their offer will be rejected.	Accepted
20	Delivery period for Elevator & Mandatory Spares: Vendor shall offer their best possible shortest delivery period. Vendor quoted delivery period shall include all activities i.e. Manufacturing / Production, sourcing, Inspection, Packing, Forwarding and dispatch.	
21	Delivery period for Erection & Commissioning: Vendor shall offer their best possible shortest E&C period after formal handing over of Elevator shaft to them.	
22	Risk purchase: If the supplier fails to deliver the goods within the delivery specified in the Purchase Order, BHEL will be entitled to terminate the contract / cancel the PO and to Purchase elsewhere, at the risk and cost of the seller, either the whole of the goods or any part which the supplier has failed to deliver or despatch within the delivery period mentioned in the PO. This clause is mandatory, for the vendor to accept, else the offer will be summarily rejected. If not acceptable, please mention the same in writing, in the next column.	Accepted
23	Validity of offer for Elevator, Mandatory Spares and Erection & Commissioning: 120 days from the date of Part-I opening.	Accepted
24	GST DETAILS, BHEL TRICHY GST No. 33AAACB4146P2ZL	Noted
25	Indigenous vendor: Please mention your PAN No.	
26	Indigenous vendor: Please mention your GSTIN Number	

27	Implementation of GST - Response to Tenders for Indigenous supplier will be considered only if the vendor has a valid GST registration no which should be clearly mentioned in the offer. If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer. - Supplier shall mention their GSTN registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc. - All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code). - A declaration to the effect that all invoice particulars are/were uploaded in the GSTN network/ portal & all tax liability as per GST rules and regulations have been and will be discharged, shall be mentioned in the invoice. If not mentioned in the invoice, a separate declaration shall be submitted as per the requirement of BHEL. - All documents like Mill Test Certificate, LR copy, Guarantee/Warranty certificate, work completion certificate, any other document mentioned in PO, shall be sent along with the vehicle/consignment details. For all consignments received within the calendar month, input credit will be availed within that month in line with monthly returns filing cycle. In case of any discrepancy in the document or non-submission of documents mentioned in the PO, then BHEL will not be able to accept or account the material, in such case availing of tax credit will be deferred to next month or so. - In case of discrepancy in the data uploaded by supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note (details to be uploaded in GSTN portal) for the shortages or rejections in the supply, within the calendar month notified by BHEL. For any such delay in availing of tax credit for reasons attributable to supplier (as mentioned above), interest (calculated @ SBI Base Rate + 6%) along with penalty if any will be deducted for the delayed period i.e. from the month of receipt till the month tax credit is availed, from the running bills	Noted (N/A for Foreign vendors)
28	BENEFITS TO MSE VENDOR: MSE suppliers can avail the intended benefits only if they submit along with the offer, attested/notarized copies of either - Valid NSIC certificate or EM II certificate along with CA certificate applicable for the year, certifying quantum of investment in plant and machinery within the permissible limits as per the act for relevant status (MICRO or SMALL) where the deemed validity of EM II is over. OR Udyog Aadhaar Memorandum No. & CA Certificate applicable for the year, certifying quantum of investment in plant and machinery within the permissible limits as per the act for relevant status. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission (Part 1 in case of two part bid). Non submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry, in case of any deficiency in the above required documents or in case the documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal even if submitted earlier. Documents should be notarized or attested by a Gazetted officer. For Package basis (Non-Splitable): - If L1 vendor is an MSE vendor entire project package will be ordered on L1 vendor. - If a Non MSE vendor is coming as L1, then L1 prices will be counteroffered on MSE vendor who is quoting price within the price band L1+15% and if they are agreeing, purchase order will be awarded for full/complete supply of total tendered value to MSE. - If more than one MSE vendors are available in the L1+15% price band then lowest of the MSE vendor will be selected for counteroffering. If lowest MSE vendor is not accepting it will be counteroffered to the next MSE vendor in the price band and so on. - Finally if none of the MSE vendor in the price band is not accepting, it will be ordered on L1 non MSE vendor. For Item wise evaluation (Splitable): If a Non MSE vendor is coming as L1, then L1 prices will be counteroffered on MSE vendors who are quoting price within the price band L1+15% and if they are agreeing, purchase order will be awarded for 25% of the tendered quantity. ➤ 3% reservation for women owned MSEs, within the above mentioned 25% reservation. ➤ 6.25% reservation from MSE owned by SC / ST entrepreneurs, within the above mentioned 25% reservation. In case of more than one such MSE, the supply shall be shared proportionately. Payment for MSE indigenous vendors will be as per MSMED Act, 2006.	Accepted / Not Accepted (N/A for Foreign vendors)
29	MSE VENDOR (N/A for Foreign vendors)	YES / NO
30	IF MSE VENDOR, PLEASE PROVIDE UDYOG AADHAR MEMORANDUM (UAM) & CA Certificate signed in current financial year (N/A for Foreign vendors)	Submitted/ Not Submitted
31	Definitions of MSEs owned by SC/ST is under: - In case of proprietorship firm, proprietor must be SC/ST. - In case of partnership firm, the SC/ST partners must be holding at least 51% shares in unit. In case of private limited companies, at least 51% share must be held by SC/ST promoters. Authorised Offices to Issue SC/ST certificate. The caste/Tribe/Community certificate issued by the following authorities in the	Accepted /

	prescribed form for SCs/STs can be considered. - District Magistrate / Additional District Magistrate / Collector / Deputy Commissioner / Additional Deputy Commissioner / Deputy Collector / 1st class stipendiary magistrate / Sub divisional Magistrate / Taluka Magistrate / Executive magistrate, Chief Presidency magistrate / Additional chief presidency magistrate/Presidency magistrate. - Revenue Officer not below the rank of Tashildar. - Sub-Divisional officer of the area where the individual and / or his family normally resides. To avail the benefits of MSE under SC/ST category, the related documents as stated above should be submitted along with tender documents.	Not Accepted (N/A for Foreign vendors)
32	Document Submission: Along with the offer: - Sub-delivery enquiry deviation format. - Integrity Pact - NTPC Vendor Quality Plan Format / Endorsement sheet - NTPC Questionnaire. - Filled-in/signed Commercial terms and conditions (this document) to be submitted. - Unpriced offer submitted through EPS shall contain minimum of above documents, - If MSE vendor, please attach UAM No. along with CA Certificate (N/A for Foreign vendors) - All the technical documents which have been attached along with our enquiry i.e., Specification, Elevation Location Diagram are to be endorsed on all pages with company seal and Catalogues, leaflet, General arrangement drawings etc. for technical evaluation and for getting customer approvals. Also, the documents mentioned in the Specification TCI:263:ELEV:N/ Rev 01 has to be submitted.	Submitted/ Not Submitted
33	Any deviation on technical/QP/packing requirements shall specifically be indicated in the "sub-delivery enquiry deviation format" attached along with the enquiry. Deviations / clarifications declared elsewhere will not be evaluated. Also, any deviations from the commercial terms and conditions shall be clearly spelt out in this format itself. Deviations / clarifications declared elsewhere will not be considered. Deviations taken, if any, by vendor as per our requirement above shall be clearly, accepted by BHEL in writing during enquiry / evaluation stage itself. In the event of an order no deviations, unless accepted clearly by BHEL in writing during enquiry stage will be entertained and all other techno-commercial requirements will be binding on successful bidder and failure to execute the terms will lead to disciplinary action by BHEL against the said bidder.	Noted
34	As per Specification TCI:263:ELEV:N/ Rev 01, the following optional prices shall also be submitted in the price bid (Part-II) along with offer: - Rate for addition / deletion of 1 number landing. - Rate for addition / deletion of 1Mtr. in travel height. - Additional price of Automatic Rescue Device (ARD) for increased height of 15 Mtrs. - Audio annunciation in the form of metres. Vendor shall furnish the List of start-up, commissioning and recommended spare parts during normal operation, separately in the offer, with item wise price under the title "Schedule of Spare Parts". The unit prices of these recommended spares shall be valid for three years of normal consumption for operation of the plant.	Submitted
35	While submitting price bid in the EPS, vendor shall not quote different prices for identical items listed in enquiry (main boilers & spares). In case different prices are quoted for same / identical items/ materials, lowest of the two will be considered for ordering.	Noted
36	Vendors who have registered themselves as MSE, cannot claim the benefits unless they submit the UAM No. and the CA certificate signed in the current financial year, along-with the EPS offer for each tender; failing which vendor shall not claim MSE benefits. (N/A for Foreign vendors)	Noted
37	Any pre-bid queries / clarification / document requirement etc. shall be asked within 3-4 days of floating tender in EPS. Tender due date extension will not be given without valid reason. Tender due date extension request has to be given before due date / time along-with a valid reason.	Noted
38	It has been observed that vendor gives confirmation to commercial terms & conditions specified in this Annexure and also gives different / separate terms & conditions in the unpriced bid / offer documents. The commercial terms & conditions accepted in this Annexure-A, alone shall be binding between BHEL and the Vendor	Accepted
39	"Sub-Delivery Enquiry Deviation Format" is important document which has to be filled, (signed & sealed) with all the technical refere document details and attached along with the offer in the EPS. In case of no deviations. Please mention NIL DEVIATION.	Attached / Not Attached
40	Technical / commercial clarification, if any, will be initiated through EPS / email. Vendor to respond to the clarifications within 3 working days. If the vendor fails to respond, even after three reminders, then the vendor will be considered as non-responsive and is liable to be rejected. Please note that EPS generates auto email whenever clarification / tender event is scheduled. Vendor to keep track and respond immediately.	Noted
41	Fraud Prevention Policy Suppliers involving in fraudulent practices or delayed supply (or) non-Supply will be dealt with provision as indicated in "Guidelines for Suspension of Business Dealings with Suppliers / Contractors" which is hosted in website www.bhel.com. The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com. 1.0 Integrity commitment, performance of the contract and punitive action thereof: 1.1 Commitment by BHEL: BHEL commits to take all measures necessary to prevent corruption in connection with the tender process and execution of the contract. BHEL will during the tender process treat all Bidder(s) in transparent and fair manner, and with equity.	Noted

	1.2 Commitment by Bidder / Supplier / Contractor: 1.2.1. The bidder / supplier / contractor commit to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India. 1.2.2. The bidder / supplier / contractor will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to relevant guidelines issues from time to time by Govt. of India / BHEL. 1.2.3. The bidder / supplier / contractor will perform / execute the contract as per the contract terms & Conditions and will not default without any reasonable cause, which causes loss of business / money / reputation, to BHEL. If any bidder / supplier / contractor during pre-tendering / tendering / post tendering / award / execution / post-execution stage indulges in mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India, then action may be taken against such bidder / supplier / contractor as per extant guidelines of the company available on www.bhel.com and / or under applicable legal provisions.	
42	PO Acknowledgement: Within 7 days from the date of receipt of scanned PO copy through email.	Accepted
43	Document Submission after PO: Complete set of valid Documents as per BHEL format viz., Datasheet, GA drawing and QAP / RQP / VQP are to be submitted within 14 days from the date of receipt of PO (e-mail copy). If there is a delay in submission of valid documents within 14 days, the delay will be accounted for the calculation of LD.	Accepted / Not Accepted
44	Indigenous Vendors: LR date will be considered for LD calculation. Import Vendors: Original Bill of Lading (OBL) date will be considered for LD calculation.	Noted
45	Inspection notice period: Vendor shall raise inspection call to Third Party Inspection Agency / BHEL at least three working days, prior to the proposed date of inspection.	Accepted / Not Accepted
46	Vendor shall dispatch the consignment within seven working days, after getting dispatch clearance from BHEL, subsequent delay will be accounted for calculation of LD.	Accepted / Not Accepted
47	In the event of placement of PO, every dispatch of material shall accompany the packing list, detailing the Numbers of items. An advance copy of dispatch details shall be furnished to MM/BOI/BHEL/Tiruchy-14	Noted
48	For Foreign vendors: Exchange rate as on scheduled date of tender opening (part -I bid in case of two part bid) shall be considered for evaluation. Tender will be finalized on the basis of "TOTAL COST" basis to BHEL	Noted
49	For Foreign vendors: Test certificate as applicable shall be submitted prior to despatch for our review and approval. Shipment shall be dispatched only after obtaining despatch clearance from BHEL. All test certificates /Country of Origin Certificate & other documents are to be given free of cost.	Noted
50	Internal Inspection & testing requirements: Inspection and testing requirements are to be carried out as per the specification and BHEL/customer approved QAP and all test certificates are to be submitted in complete set as indicated in our specification /QAP. In case of Vendor QP the same shall be submitted for approval along with the offer.	Noted
51	Repair & replacements: Within the guarantee period vendor has to replace / rectify the defective/ damaged items on free of cost within a reasonable time of reporting from our end. All incidental charges like freight, insurance and customs duty / GST are to vendor account only. The defective parts and components shall be collected by your Indian agent or / authorized person, only after completing the replacement / repairs. The defective parts / components will not be returned back to vendor works by us due to procedural problems.	Accepted
52	BHEL reserves the right to cancel / modify the tender, if the need so arises, without assigning any further notice or reason therefore.	Noted
53	In the event of order, separate PO's will be released for Elevator, Erection & Commissioning and mandatory Spares.	Noted
54	Disclaimer Clause: The Organization (Bharat Heavy Electricals Ltd.) nor the service provider (ABC procure.) is responsible for any failure of submission of bids, due to failure of internet or other connectivity problems or technical; reasons thereof.	Noted
55	For Indigenous vendors: For this procurement, Government of India Order: Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017 & 28.05.2018 and subsequent orders issued by the respective Nodal ministry shall be applicable, even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable. Default margin of purchase preference shall be 20% to local suppliers, with default minimum local content of 50%. Vendor shall submit Self-certification in their letter head indicating the percentage of local content along-with the Part-I Bid	Accepted & Submitted

56	(a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL. IEM (1): Shri D.R.S Chaudhary, IAS (Retd.) E-1/164, Arera Colony, Bhopal 462 016 (M.P.) E mail id: dilip.chaudhary@icloud.com IEM (2): Mrs. Pravin Tripathi, IA & AS (Retd.) D-243, Anupam Gardens, Lane IB, Neb Sarai, Sainik Farms, New Delhi - 110 068 E mail ID: pravin.tripathi@gmail.com b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/ three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification. c) Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through email only. No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are given in Para-3 of this Annexure.	
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By signing this Annexure, the vendor consents that the terms & conditions accepted in this Annexure alone, shall be binding between BHEL and the Vendor; and no other terms mentioned, elsewhere in the Offer / Quotation will be considered / accepted by BHEL.

INTEGRITY PACT

Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

and

_____, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for _____

_____. The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitor(s), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Principal

1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-

1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

1.1.3 The Principal will exclude from the process all known prejudiced persons.

1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions:

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
- 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and will await their decision in the matter.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 4 - Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to

demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee, whichever is higher.

Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 - Equal treatment of all Bidders/ Contractors / Sub-contractors

- 6.1 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors. In case of sub-contracting, the Principal contractor shall be responsible for the adoption of IP by his sub-contractors and shall continue to remain responsible for any default by his sub-contractors.
- 6.2 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

Section 7 - Criminal Charges against violating Bidders/ Contractors /Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 - Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- 8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality in line with Non- disclosure agreement.
- 8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

- 8.5 The role of IEMs is advisory, would not be legally binding and it is restricted to resolving issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process, the matter should be examined by the full panel of IEMs jointly as far as possible, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to CMD, BHEL, at the earliest. They may also send their report directly to the CVO and the Commission, in case of suspicion of serious irregularities requiring legal/ administrative action. IEMs will tender their advice on the complaints within 10 days as far as possible.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.
- 8.9 IEM should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the organization should be looked into by the CVO of the concerned organisation.
- 8.10 If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code/ Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.
- 8.12 The word 'Monitor' would include both singular and plural.

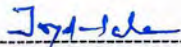
Section 9 - Pact Duration

- 9.1 This Pact shall be operative from the date IP is signed by both the parties till the final completion of contract for successful bidder and for all other bidders 6 months after the contract has been awarded. Issues like warranty / guarantee etc. should be outside the purview of IEMs.
- 9.2 If any claim is made/ lodged during currency of IP, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 - Other Provisions

- 10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.

- 10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- 10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders / contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.

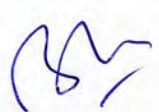


For & On behalf of the Principal

JOYDEV SARDAR
Sr. Engineer
MM / BOI - Purchase
BHEL, TRICHY - 620 014

Place-----

Date-----

Witness: _____

(Name & Address) _____

N. MOHAN
Asst. Engineer
Materials Management / BOI
BHEL, TIRUCHY - 620 014.

For & On behalf of the Bidder/

Contractor

(Office Seal)

Witness: _____

(Name & Address) _____

BANK GUARANTEE FOR PERFORMANCE SECURITY

(Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s))

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

IFSC AND MICR CODE

Dear Sirs,

1. In consideration of Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____¹ through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) (VENDOR CODE) with its registered office at _____² hereinafter referred to as the ' Vendor / Contractor / Supplier ', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated³ valued at Rs.....⁴ (Rupees -----)/FC.....(in words.....) for⁵ (hereinafter called the 'Contract') and the Vendor / Contractor / Supplier having agreed to provide a Contract Performance Bank Guarantee, equivalent to% (... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

2. we,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount of Rs -----⁶ (Rupees -----) without any demur, immediately on first demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

3. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

4. We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor / Contractor / Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

5. The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Vendor / Contractor / Supplier shall have no claim against us for making such payment.

6. We thebank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract/satisfactory completion of the performance guarantee period as per the terms of the Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

7. We.....BANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Vendor / Contractor / Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor / Contractor / Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor / Contractor / Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor / Contractor / Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

8. The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor / Contractor / Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor / Contractor / Supplier's liabilities.

9. This Guarantee shall remain in force upto and including.....⁷ and shall be extended from time to time for such period as may be desired by Employer.

10. This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor / Contractor / Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

11. Unless a demand or claim under this guarantee is made on us in writing on or before the⁸we shall be discharged from all liabilities under this guarantee thereafter.

12. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Tiruchirappalli.

13. We..... BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

a) The liability of the Bank under this Guarantee shall not exceed.....⁶

- b) This Guarantee shall be valid up to⁷
- c) Unless the Bank is served a written claim or demand on or before (minimum 3 to 6 months from the expiry date)⁸ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

14. We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

BANK EMAIL ID:

BANK PHONE NO:

AUTHORISED SIGNATORIES CELL PHONE NO:

BANK FAX NO:

¹ NAME AND ADDRESS OF EMPLOYER I.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ CONTRACT VALUE

⁵ PROJECT/SUPPLY DETAILS

⁶ BG AMOUNT IN FIGURES AND WORDS

⁷ VALIDITY DATE

⁸ DATE OF EXPIRY OF CLAIM PERIOD

List of Consortium Banks *			
	Nationalised Banks		Nationalised Banks
1	Allahabad bank	19	Vijaya Bank
2	Andhra bank		Public Sector Banks
3	Bank of Baroda	20	IDBI
4	Canara Bank		Foreign banks
5	Corporation bank	21	CITI Bank N.A
6	Central bank	22	Deutsche Bank AG
7	Indian Bank	23	The Hongkong and Shanghai Banking Corporation Limited
8	Indian Oversea Bank	24	Standard Chartered Bank
9	Oriental bank of Commerce	25	J P Morgan
10	Punjab National Bank		
11	Punjab & Sindh Bank		Private banks
12	State Bank of India	26	Axis Bank
13	State Bank of Hyderabad	27	The Federal Bank Limited
14	Syndicate Bank	28	HDFC
15	State Bank of Travancore	29	Kotak Mahindra Bank
16	UCO Bank	30	ICICI
17	Union Bank of India	31	Indusind Bank
18	United Bank of India	32	Yes Bank

* wef 22.03.2016