

# **TENDER SPECIFICATION**

## **BHE/PW/PUR/SKT-PIN/1177**

FOR

**A:- CW Pump:** Receipt of materials from BHEL Store / storage yards; Handling at BHEL Store / storage yards / site of works; Transportation between BHEL Store / storage yards and site of works; preparation of foundations; assembly, blue matching, erection, leveling and alignment of loose components of (Vertical Type) Cooling Water Pump sets - 5 Nos. [Pump Capacity-19900 M3/hr, HEAD (Bowl) =25.5 mlc, SPEED - 490 RPM, Supplier: BHEL Hyderabad] and Motor (2200 kW, 6600 Volts 12 POLE, 497 RPM, MAKE-BHEL BHOPAL); fabrication, erection & alignment of stainless steel pipes/tubes up to Dia. 60.3 for gland sealing/pump drains etc. which are supplied along with CW pumps and its welding by GTAW process with ER-347 / ER-309 and NDT of joints; grouting of CW Pump foundation bolts, Base plates, thrust block assembly (welding with E7018 electrodes may be required) and anchoring bolts etc. with non-shrink (free flow) grout materials Conbextra GP-2 cement; testing; trial run, commissioning and handing over for Unit-3 &4

AND

**B:- Vertical Turbine Pump :** Receipt of materials from BHEL Store / storage yards; Handling at BHEL Store / storage yards / site of works; Transportation between BHEL Store / storage yards and site of works; preparation of foundations; fabrication of packer plates from raw materials, cutting of required shims, drilling, tapping, blue matching of components/equipment, assembly / trial assembly of components, erection, leveling and alignment of loose components, welding, adjustment pump shafts, greasing components (as required) of Vertical Turbine Pump with Motor – 24 sets as per the details mentioned in Annexure-A); grouting of Vertical Turbine Pumps foundation bolts & Sole plates with non-shrink (free flow) grout materials Conbextra GP-2 cement; testing; trial run, commissioning and handing over for Unit-3 &4

AT

**SIKKA THERMAL POWER STATION**  
**GUJARAT STATE ELECTRICITY CORPORATION LIMITED**  
**DIST- JAMNAGAR , GUJARAT**  
**VOLUME – I**

**VOLUME - II – PRICE BID**



**BHARAT HEAVY ELECTRICALS LIMITED**  
(A GOVERNMENT OF INDIA UNDERTAKING)  
POWER SECTOR - WESTERN REGION  
345, KINGS WAY - NAGPUR 440 001

**BHARAT HEAVY ELECTRICALS LIMITED**  
(A GOVERNMENT OF INDIA UNDERTAKING)  
POWER SECTOR - WESTERN REGION  
SHREEMOHINI COMPLEX  
345, KINGS WAY - NAGPUR 440 001

**TENDER SPECIFICATION NO. BHE/PW/PUR/SKT-PIN/1177**

**FOR**

**A:- CW Pump:** Receipt of materials from BHEL Store / storage yards; Handling at BHEL Store / storage yards / site of works; Transportation between BHEL Store / storage yards and site of works; preparation of foundations; assembly, blue matching, erection, leveling and alignment of loose components of (Vertical Type) Cooling Water Pump sets - 5 Nos. [Pump Capacity-19900 M3/hr, HEAD (Bowl) =25.5 mlc, SPEED - 490 RPM, Supplier: BHEL Hyderabad] and Motor (2200 kW, 6600 Volts 12 POLE, 497 RPM, MAKE-BHEL BHOPAL); fabrication, erection & alignment of stainless steel pipes/tubes up to Dia. 60.3 for gland sealing/pump drains etc. which are supplied along with CW pumps and its welding by GTAW process with ER-347 / ER-309 and NDT of joints; grouting of CW Pump foundation bolts, Base plates, thrust block assembly (welding with E7018 electrodes may be required) and anchoring bolts etc. with non-shrink (free flow) grout materials Conbextra GP-2 cement; testing; trial run, commissioning and handing over for Unit-3 &4

**AND**

**B:- Vertical Turbine Pump :** Receipt of materials from BHEL Store / storage yards; Handling at BHEL Store / storage yards / site of works; Transportation between BHEL Store / storage yards and site of works; preparation of foundations; fabrication of packer plates from raw materials, cutting of required shims, drilling, tapping, blue matching of components/equipment, assembly / trial assembly of components, erection, leveling and alignment of loose components, welding, adjustment pump shafts, greasing components (as required) of Vertical Turbine Pump with Motor – 24 sets as per the details mentioned in Annexure-A); grouting of Vertical Turbine Pumps foundation bolts & Sole plates with non-shrink (free flow) grout materials Conbextra GP-2 cement; testing; trial run, commissioning and handing over for Unit-3 &4.

**AT**

2X250 MW SIKKA THERMAL POWER STATION  
GUJARAT STATE ELECTRICITY CORPORATION LIMITED  
DIST- JAMNAGAR , GUJARAT

THESE TENDER DOCUMENTS CONTAINING PART-I TECHNICAL BID (VOLUME I & II )AND PART- II PRICE BID, ARE ISSUED TO:

M/s. ....  
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(THESE TENDER DOCUMENTS ARE NOT TRANSFERABLE)

FOR BHARAT HEAVY ELECTRICALS LIMITED

AGM (PURCHASE)

PLACE: NAGPUR

DATE:

**BHEL-PSWR-NAGPUR**

**VOLUME-II PRICE BID (RATE SCHEDULE)  
Tender Specification NO: BHE/PW/PUR/ SKT-PIN/1177  
Schedule of Rates and Quantities**

<b>Sl. No.</b>	<b>Job Description</b>	<b>Quantity</b>	<b>Unit Rate per Pump set in Rupees</b>	<b>Total amount in Rupees</b>
1	Receipt of materials from BHEL Store / storage yards; Handling at BHEL Store / storage yards / site of works; Transportation between BHEL Store / storage yards and site of works; preparation of foundations; assembly, blue matching, erection, leveling and alignment of loose components of (Vertical Type) <b>Cooling Water Pump sets - 5 Nos. [Pump Capacity-19900 M<sup>3</sup>/hr, HEAD (Bowl) =25.5 mlc, SPEED - 490 RPM, Supplier: BHEL Hyderabad,] and Motor (2200 kW, 6600 Volts 12 POLE, 497 RPM, MAKE-BHEL BHOPAL) Total estimated weight of 5sets of CW Pump &amp; Motor is 265.00 MT</b> ; fabrication, erection & alignment of stainless steel pipes/tubes up to Dia. 60.3 for gland sealing/pump drains etc. which are supplied along with CW pumps and its welding by GTAW process with ER-347 / ER-309 and NDT of joints; grouting of CW Pump foundation bolts, Base plates, thrust block assembly (welding with E7018 electrodes may be required) and anchoring bolts etc. with non-shrink (free flow) grout materials Conbextra GP-2 cement; testing; trial run, commissioning and handing over at 2x250 MW GSECL Sikka TPS Extn Unit 3&4 Project at Sikka <b>AS PER TENDER SPECIFICATIONS: BHE/PW/PUR/SKT-PIN/1177</b>	5 sets		
	<b>Total Amount for entire scope of work (Section.A) (in Rs.)</b>			

DATE

SIGNATURE OF BIDDER

**BHEL-PSWR-NAGPUR**

**VOLUME-II PRICE BID (RATE SCHEDULE)  
Tender Specification NO: BHE/PW/PUR/ SKT-PIN/1177  
Schedule of Rates and Quantities**

<b>PACKAGE -B</b>					
<b>Sl. No.</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit Rate per Pump set in Rupees (In figure)</b>	<b>Unit rate in Words (Rupees)</b>	<b>Total amount in Rupees</b>
	Total estimated weight of <b>24 sets</b> of the Vertical Turbine Pump & Motor is 77.720 MT.  Receipt of materials from BHEL Store / storage yards; Handling at BHEL Store / storage yards / site of works; Transportation between BHEL Store / storage yards and site of works; preparation of foundations; fabrication of packer plates from raw materials, cutting of required shims, drilling, tapping, blue matching of components/equipment, assembly / trial assembly of components, erection, leveling and alignment of loose components, welding, adjustment pump shafts, greasing components (as required) of <b>Vertical Turbine Pump with Motor – 24 sets as per the details mentioned in Annexure-A</b> ); grouting of Vertical Turbine Pumps foundation bolts & Sole plates with non-shrink (free flow) grout materials Conbextra GP-2 cement; testing; trial run, commissioning and handing over at 2x250 MW GSECL Sikka TPS Extn Unit 3&4 Project at Sikka <b>AS PER TENDER SPECIFICATIONS: BHE/PW/PUR/SKT-PIN/1177</b>				
	a) CW MAKE UP PUMPS	3 NOS.			
	b) PORTABLE WATER PUMPS (COLONY)	2 NOS.			
	c) PORTABLE WATER PUMPS (PLANT)	2 NOS.			
	d) APH SEAL WATER PUMPS	2 NOS.			

DATE

SIGNATURE OF BIDDER

**BHEL-PSWR-NAGPUR**

**VOLUME-II PRICE BID (RATE SCHEDULE)**  
**Tender Specification NO: BHE/PW/PUR/ SKT-PIN/1177**  
**Schedule of Rates and Quantities**

	e) HVAC MAKE UP PUMPS	3 NOS.			
	f) APH PUMPS	3 NOS.			
	g) CHP DUST SEPARATION PUMPS	2 NOS.			
	h) APH WASH PUMPS	2 NOS.			
	i) SERVICE WATER PUMPS	2 NOS.			
	j) BLOW DOWN PUMPS	3 NOS.			
	<b>Total Amount for entire scope of work (Section.B) in figure (In Rs.)</b>				
	<b>Total Amount for entire scope of work in words (PACKAGE A+B) (In Rs.)</b>				

DATE

SIGNATURE OF BIDDER