

**Bharat Heavy Electricals Limited
Ramachandrapuram Hyd-32
(Township Administration)**

Tender Notice No:
HY/TA/OT-08/2012-13
Date: 10.10.12
Item No. 04

Schedule-A (Bill of Quantities)

Name of work:- Repairs to submersible pump sets

SL.No	Description of Item	Qty	Unit	Rate per unit in		Amount
				Figures	Words	
1	Repairs to submersible pumpsets of 2.5 to 5 H.P					
	A MOTOR PORTION					
	a Rewinding of motor	8	Each	2500.00	Rs. Two thousand five hundred only	20,000.00
	b Replacement of upper & lower bearing bushes.	12	Each	130.00	Rs. One hundred thirty only	1,560.00
	c Studs and nuts/keys	6	Each	40.00	Rs. Forty only	240.00
	d Thrust bearing sets	6	Each	150.00	Rs. One hundred fifty only	900.00
	e Oil seals	6	Each	25.00	Rs. Twenty five only	150.00
	f Cable joints to Motor	5	Each	50.00	Rs. Fifty only	250.00
	g Motor half couplings	12	Each	35.00	Rs. Thirty five only	420.00
	h Lock rings	12	Each	10.00	Rs. Ten only	120.00
	i DOL/IP bushes	20	Each	75.00	Rs. Seventy five only	1,500.00
	j S&F copper flat cable 3 core 2.5 sq.mm	500	One Rmt	60.00	Rs. Sixty only	30,000.00
	k Rotor reconditioning / Replacement	5	Each	100.00	Rs. One hundred only	500.00
	B PUMP PORTION					
	a Repairs and reconditioning of impellers and balancing.	8	Each	60.00	Rs. Sixty only	480.00
	b Shaft sleeves	12	Each	20.00	Rs. Twenty only	240.00
	c Replacement of impeller	30	Each	175.00	Rs. One hundred seventy five only	5,250.00

Signature of contractor

Issuing Officer

SL.No	Description of Item	Qty	Unit	Rate per unit in		Amount
				Figures	Words	
	d Stage casing bowl bushes sets	30	Each	20.00	Rs. Twenty only	600.00
	e Suction strainer/sand guard	6	Each	20.00	Rs. Twenty only	120.00
	f Pump half coupling	6	Each	60.00	Rs. Sixty only	360.00
	g Labour charges for dismantling, overhauling, testing, painting, transporting, etc.,	8	Each	900.00	Rs. Nine hundred only	7,200.00
	h Guide wins	12	Each	25.00	Rs. Twenty five only	300.00
	i Replacing of pump shaft	4	Each	250.00	Rs. Two hundred fifty only	1,000.00
2	Repairs to submersible pumpsets of 8 to 12 H.P					
	A MOTOR PORTION					
	a Winding of motor	43	Each	3800.00	Rs. Three thousand eight hundred only	163,400.00
	b Replacement of upper & lower bearing bushes.	65	Each	170.00	Rs. One hundred seventy only	11,050.00
	c Motor upper and lower flanges	65	Each	25.00	Rs. Twenty five only	1,625.00
	d Motor half couplings	35	Each	30.00	Rs. Thirty only	1,050.00
	e Studs and nuts/keys	35	Each	40.00	Rs. Forty only	1,400.00
	f Rotor sleeves	35	Each	75.00	Rs. Seventy five only	2,625.00
	g Thrust bearing sets	20	Each	150.00	Rs. One hundred fifty only	3,000.00
	h Oil seal/circlips/lock rings	25	Each	20.00	Rs. Twenty only	500.00
	i Cable jointing to motor	35	Each	75.00	Rs. Seventy five only	2,625.00
	j Upper and lower bearings housing	20	Each	150.00	Rs. One hundred fifty only	3,000.00
	k Guide wings	13	Each	20.00	Rs. Twenty only	260.00
	l Stud rings	9	Each	100.00	Rs. One hundred only	900.00
	m Motor bottom base	11	Each	200.00	Rs. Two hundred only	2,200.00
	n Motor adapter	13	Each	200.00	Rs. Two hundred only	2,600.00
	B PUMP PORTION					
	a Repairs and reconditioning of impellers and balancing	38	Each	200.00	Rs. Two hundred only	7,600.00

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SL.No	Description of Item	Qty	Unit	Rate per unit in		Amount
				Figures	Words	
	b Replacement of impellers 'Q' type	40	Each	150.00	Rs. One hundred fifty only	6,000.00
	c Stage casing bowl bushes sets	40	Each	100.00	Rs. One hundred only	4,000.00
	d Stage casing 'Q' type	40	Each	25.00	Rs. Twenty five only	1,000.00
	e Suction strainer/sand guard	30	Each	50.00	Rs. Fifty only	1,500.00
	f Neck rings	40	Each	100.00	Rs. One hundred only	4,000.00
	g DOL/IP bush	30	Each	130.00	Rs. One hundred thirty only	3,900.00
	h Shaft sleeves	90	Each	100.00	Rs. One hundred only	9,000.00
	i Pump half couplings	30	Each	60.00	Rs. Sixty only	1,800.00
	j Pump shaft (reconditioning)	15	Each	50.00	Rs. Fifty only	750.00
	k Pump shaft (replacing)	6	Each	250.00	Rs. Two hundred fifty only	1,500.00
	l Pump stand	4	Each	175.00	Rs. One hundred seventy five only	700.00
	m N R V body	15	Each	280.00	Rs. Two hundred eighty only	4,200.00
	n DOL body	15	Each	200.00	Rs. Two hundred only	3,000.00
	o Labour charges for dismantling, overhauling, testing, painting, transporting, etc.,	35	Each	1500.00	Rs. One thousand five hundred only	52,500.00
3	Supply & Fixing of spares to the pumps					
	a Couplings set (20 to 40 HP)	10	sets	250.00	Rs. Two hundred fifty only	2,500.00
	b Cast iron gland clamps for 40 HP pump.	10	sets	300.00	Rs. Three hundred only	3,000.00
	c Cast iron sleeves for 40 HP pump.	10	Sets	300.00	Rs. Three hundred only	3,000.00
	d Rubber bush L40x50 diax 23 ID-MM (1 set 6 nos)	40	Nos.	450.00	Rs. Four hundred fifty only	18,000.00
	e Shaft sleeves (cast iron), 5 to 15 HP	6	Each	80.00	Rs. Eighty only	480.00
	f Shaft sleeves (castiron) 20 to 40 HP	6	Each	130.00	Rs. One hundred thirty only	780.00
4	Supply & fixing of Ball bearing from 1 to 40 HP					
	a Bearing size 6310 / 6311 / 6312	30	Each	1400.00	Rs. One thousand four hundred only	42,000.00

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SL.No	Description of Item	Qty	Unit	Rate per unit in		Amount
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	b Bearing size 6308 / 6205 / 6304 / 6309	30	Each	400.00	Rs. Four hundred only	12,000.00
5	Winding of motors 1 to 40 HP					
	a Motor winding, 1 to 4 HP	6	Each	900.00	Rs. Nine hundred only	5,400.00
	b 5 to 15 HP	10	Each	2200.00	Rs. Two thousand two hundred only	22,000.00
	c 20 to 40 HP	10	Each	9500.00	Rs. Nine thousand five hundred only	95,000.00
6	Servicing of centrifugal pump set including replacement of required spares and placing in position, testing and commissioning. (The spares required will be paid separately.					
	a 1 to 4 HP	4	Each	275.00	Rs. Two hundred seventy five only	1,100.00
	b 5 to 15 HP	8	Each	440.00	Rs. Four hundred forty only	3,520.00
	c 20 to 40 HP	8	Each	550.00	Rs. Five hundred fifty only	4,400.00
					Rs. Five lakhs eighty two thousand fifty five only	582055.00

Tender %	In words	Figures
Excess		
Less		
Estimate rates only		

Signature of contractor

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Conditions

1	A penalty of 0.5% of the gross value of work will be levied for every week's delay of work subject to a maximum penalty of 10% of the gross value of work.
2	The tender % age quoted by the contractor shall be inclusive of all taxes and duties other than service tax as applicable from time to time.
3	Service tax if paid by the contractor with respect to this work will be reimbursed by BHEL on production of documentary evidence for having paid the service tax by the contractor.
4	All the bills of the contractors will be cleared on claim, subject to the production of clearance certificate by the contractors in respect of compliance of all statutory requirement, issued by IR section of HR department BHEL.
5	The agency shall submit the I.R. clearance certificate for the above work and arrange to get the final bill sent to Finance within one month from the actual date of completion of work.
6	The maintenance period of the work is 6 Months from the actual date of completion of work. The security deposit will be released after satisfactory completion of the maintenance period.

Signature of contractor

Issuing Officer