

Name of work: ANNUAL MAINTENANCE CONTRACT FOR POWER TILLERS,  
TRAILERS AND WATER TANKERS IN FACTORY AT BHEL- TRICHY  
FOR 2017-18

Enquiry No: WCF/90317 00003 / 01.06.2017

**PART-II (PRICE BID)**  
**BILL OF QUANTITIES – 16 items**

**Note: The percentage allocation against each item of BoQ is indicated in the last column here. Contractors have to quote only their cumulative overall amount for the work for the quantity indicated and not the individual rates. Individual rates for respective items in BoQ will be arrived by BHEL (as illustrated in Technical bid-Annexure II ) after applying % allocation for the quoted amount by the contractor. While quoting, contractors shall take care of units given against each item.**

SL NO	Description of work	Quantity	Unit	Percentage allocation
1	Labour charges for complete overhauling, reconditioning and servicing of Power Tiller including servicing of engine, gear box assembly, oil changing, clutch assembly etc. removing old wornout parts and replacing with new ones supplied by BHEL at free of cost. Oil servicing in Tiller engine includes removal of oil filter, diesel filter, strainer filter, air cleaning assembly and refixing all etc.complete. (Rate includes cleaning with kerosene and refilling with suitable oil) Replacement of gasket in cylinder head, packing the leakage, replacement of crank shaft and cam shaft oil seals, connecting rod bush, crank shaft, crank shaft bush, boring of cylinder, refixing of sleeve, replacing of piston and rings etc. complete	5	Each	8.5 %
2	Labour charges for carrying out the following repair works.Gear Box complete service	5	Each	5.1 %
3	Labour charges for carrying out the following repair works.Replacement and resetting of main clutch shaft	5	Each	1.7 %
4	Labour charges for carrying out the following repair works.Replacement of Main clutch shaft oil seal	5	Each	0.8 %
5	Labour charges for carrying out the following repair works.Replacement of Main clutch Bearing	5	Each	0.8 %
6	Labour charges for carrying out the following repair works.Replacement of 2nd and 3rd Gear shaft reset	5	Each	2.6 %
7	Labour charges for carrying out the following repair works.Replacement of 3rd and 4th Gear Shaft reset	5	Each	2.6 %
8	Labour charges for servicing the Trailer such as replacing the wheel bearing, brake shoe and lining, adjusting the brake to the required condition, removing old wornout parts and replacing with new ones supplied by BHEL at free of cost etc. complete.	10	Each	1.7 %

Name of work: ANNUAL MAINTENANCE CONTRACT FOR POWER TILLERS,  
TRAILERS AND WATER TANKERS IN FACTORY AT BHEL- TRICHY  
FOR 2017-18

Enquiry No: WCF/90317 00003 / 01.06.2017

9	Labour charges for carrying out the following repair works. Attending to wheel puncture of tube in Trailer /Tiller by removing the wheel, transporting to outside agency for rectification and refixing the same.	30	Each	3.1 %
10	Labour charges for carrying out the following repair works. Removing and replacement of tyres/tubes with new ones in tiller/trailer.	25	Each	2.6 %
11	Labour charges for carrying out the following repair works. Replacement of axial bearing in Trailer.	25	Each	1.7 %
12	Labour charges for carrying out the following repair works. Replacement of brake shoe and resetting.	15	Each	1.5 %
13	Labour charges for carrying out the following repair works. Resetting of brake shoe.	10	Each	1.0 %
14	Labour charges for carrying out the following repair works. Replacement of hitch pin (Toe bar)	10	Each	0.9 %
15	Labour charges for carrying out the following repair works. Fixing of Toe bar suitable for Power Tiller and Trailer with packing.	10	Each	0.9 %
16	Labour charges for carrying out the following repair works to Tiller Engine. Oil servicing in Tiller engine including removal of oil filter, diesel filter, strainer filter, air cleaning assembly and refixing all etc.complete.	20	Each	4.1 %
17	Labour charges for carrying out the following repair works to Tiller Engine. Replacement of gasket in cylinder head.	10	Each	2.7 %
18	Labour charges for carrying out the following repair works to Tiller Engine. Packing the leakage.	15	Each	1.3 %
19	Labour charges for carrying out the following repair works to Tiller Engine. Replacement of crank shaft and cam shaft oil seals.	10	Each	2.1 %
20	Labour charges for carrying out the following repair works to Tiller Engine. Replacement of accelerator cable - inner / outer.	20	Each	2.1 %
21	Labour charges for carrying out the following repair works to Tiller Engine. Replacement of accelerator lever.	20	Each	1.7 %
22	Labour charges for carrying out the following repair works to Tiller Engine. Replacement of radiator fan bearing.	10	Each	1.4 %
23	Labour charges for carrying out the following repair works to Tiller Engine. Replacement of radiator shaft with bush	10	Each	1.4 %

Name of work: ANNUAL MAINTENANCE CONTRACT FOR POWER TILLERS,  
TRAILERS AND WATER TANKERS IN FACTORY AT BHEL- TRICHY  
FOR 2017-18

Enquiry No: WCF/90317 00003 / 01.06.2017

24	Labour charges for carrying out the following repair works to Tiller Engine. Replacement of radiator fan belt	10	Each	1.0 %
25	Labour charges for carrying out the following repair works to Tiller Engine. Replacement of engine belt	10	Each	1.0 %
26	Labour charges for carrying out the following repair works to Tiller Engine. Servicing of radiator.	10	Each	1.4 %
27	Labour charges for carrying out the following repair works to Tiller Engine. Servicing of radiator packing	10	Each	0.7 %
28	Labour charges for carrying out the following repair works to Tiller Engine. Servicing of pump nozzle.	10	Each	3.4 %
29	Labour charges for carrying out the following repair works to Tiller Engine. Reboring of cylinder bore, cylinder head, connecting rod bush, crank shaft, crank shaft bush.	4	Each	4.1 %
30	Labour charges for carrying out the following repair works to Tiller Engine. Calibration of fuel pump at service station. Rate includes service charges, spares, machining and all other incidental charges etc. complete.	4	Each	2.0 %
31	Labour charges for carrying out the following repair works to Tiller gear box. Replacement of axial oil seal / water seal.	15	Each	2.6 %
32	Labour charges for carrying out the following repair works to Tiller gear box. Leakage packing.	15	Each	1.5 %
33	Labour charges for carrying out the following repair works to Tiller gear box. Replacement of clutch cable.	15	Each	1.5 %
34	Labour charges for carrying out the following repair works to Tiller gear box. Replacement of main clutch facing.	5	Each	1.4 %
35	Labour charges for carrying out the following repair works to Tiller gear box. Replacement of clutch plate steel	5	Each	1.4 %
36	Labour charges for carrying out the following repair works to Tiller gear box. Replacement of clutch spring small and big	5	Each	0.5 %
37	Labour charges for carrying out the following repair works to Tiller gear box. Replacement of hitch bracket.	5	Each	0.7 %
38	Labour charges for carrying out the following repair works to Tiller gear box. Replacement of main shifter lever.	5	Each	1.4 %

Name of work: ANNUAL MAINTENANCE CONTRACT FOR POWER TILLERS,  
TRAILERS AND WATER TANKERS IN FACTORY AT BHEL- TRICHY  
FOR 2017-18

Enquiry No: WCF/90317 00003 / 01.06.2017

39	Labour charges for carrying out the following repair works to Tiller gear box. Replacement of main shifter ball - high low shifter ball.	5	Each	1.4 %
40	Labour charges for carrying out the following repair works to Tiller gear box. Replacement of main shifter fork	5	Each	2.1 %
41	Labour charges for carrying out the following repair works to Tiller gear box. Replacement of main shaft.	5	Each	2.1 %
42	Labour charges for carrying out the following repair works to Tiller gear box. Replacement of main shifter lever clutch chain	5	Each	1.7 %
43	Labour charges for Replacing of oil filter, diesel filter suitable for power tiller. Oil Filter	5	Each	0.4 %
44	Labour charges for Replacing of oil filter, diesel filter suitable for power tiller. Diesel Filter	5	Each	0.4 %
45	Labour charges for Replacing of oil filter, diesel filter suitable for power tiller. Diesel Filter O ring	5	Each	0.2 %
46	Labour charges for Replacing of oil filter, diesel filter suitable for power tiller. Oil Filter O ring	5	Each	0.2 %
47	Labour charges for Replacing Air cleaning assembly complete suitable for power tiller.	20	Each	2.7 %
48	Water service for power tiller and trailer as and when necessary. Applying grease and lubrication oil for accelerator cable, clutch cable and in necessary parts etc.	30	Each	5.1 %
49	Labour charges for two coats of painting to Tiller.	5	Each	6.8 %

**GRAND TOTAL** i.e Total cost for the work including all the taxes (except applicable service tax) for all the items in the Bill of quantities - in

Figures ₹. \_\_\_\_\_ in words .....

.....

Name of work: ANNUAL MAINTENANCE CONTRACT FOR POWER TILLERS,  
TRAILERS AND WATER TANKERS IN FACTORY AT BHEL- TRICHY  
FOR 2017-18

Enquiry No: WCF/90317 00003 / 01.06.2017

01. Amount should be quoted in both figures and words and are to be identical. If not, the prices in the words will be considered as final and the same shall be valid and binding on the contractor.
  - (a) If there is such discrepancy in an offer, the same will be conveyed to the bidder with target date up-to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.
02. The amount should be quoted inclusive of any taxes and duties levied or to be levied both by Central and State Government authorities from time to time, except applicable Service Tax. Applicable Service Tax will be paid extra on production of documentary evidence.
03. Quotation should be valid for a period of four months from the date of Tender opening
04. If in case of Price bid opening, if there is a tie in quoted L1 amount, then ranking will be decided based on Lot system
05. **Evaluation of the offer shall be done on "Net Cash outflow to BHEL after taking into account applicable Taxes and Duties "and overall (package) L1 basis. The L1 position based on the quoted values (subject to calculations) excluding applicable service tax, will not necessarily mean L1 for a vendor, but the net liability to BHEL, after considering the service tax criteria for all the vendors who had participated in the tender. In case of exemption from the payment of service tax, the contractor has to submit a declaration along with the tender**
06. The amount quoted shall remain firm and valid during the entire period of contract (including extended period if any) and no extra payment will be reimbursed to the contractor by BHEL. Any increase of DA/ wages to the contract labor shall be absorbed by the contractor themselves during the period of contract.
07. The signature at the bottom of the rate schedule confirms that the Tenderer had read and accepted all the Terms and conditions in Tender Schedule, also amount quoted with inclusive of any taxes and duties levied and excluding Service Tax etc. has been considered by the tenderer for the total contract period (including extended period if any) while quoting the above rates.
08. No other pre conditions along with your offer will be entertained by BHEL
09. The contractor shall quote only the lowest possible total amount that can be offered for the intended quantity. Rate for individual items of BoQ will then be arrived by BHEL, as per annexure- II in Technical bid
10. The contractor while quoting shall take care of units specified against every item in bill of quantities.