

<u>STEAM TURBINE MANUFACTURING</u>
<u>HEAVY MACHINE SHOP</u>
TENDER ENQUIRY NO: STM/HMS-WC/18-19/p.t/03, DATED: 05/09/2019
<u>ANNEXURE – II : DETAILED NIT(NOTICE INVITING TENDER)</u>

SCOPE OF WORK:

WORKS CONTRACT FOR “OPERATION OF DRILLING MACHINE NO. 20/A/18 (single operator), 20/A/17 (single operator) & 20/A/19 (single operator) MACHINES IN HEAVY MACHINE SHOP (HMS) OF STEAM TURBINE MANUFACTURING (STM) DIVISION, BHEL, BHOPAL FOR THE PERIOD OF TEN MONTHS”

Heavy Machine shop is catering to the need of various machining activities related to Steam Turbine Assembly, BHEL, Bhopal Unit. Jobs of high geometrical accuracy and tolerance are manufactured in Heavy Machine shop. In view of this, skilled and devoted manpower are required to be deployed for operation of machine through works contract on technological hour basis. The details are as follows:

Technological hour for 20/A/18 (single operator), , 20/A/17 (single operator) & 20/A/19 (single operator): 11000 Tech. Hrs.	Period of Contract : 10 months
Manpower Required : Skilled	
Educational qualification and experience: ITI in Turner grade or Non-ITI workers having 3 years of work experience in BHEL of doing similar work on finish basis.	

The manpower to be deployed for carrying out operations of Drilling machines in Heavy machine shop shall be well qualified and experienced. The firm has to engage technical operator for machine operation on regular day-to-day basis and to the satisfaction of Section In-charge. If performance of any deployed worker is not found satisfactory, contractor shall provide alternate worker with immediate effect to the satisfaction of Section In-charge.

Following works are to be performed by the deployed manpower:

1. The main work involves carrying out various operations on following Drilling machines in Heavy machine shop in three shifts i.e. 1st shift (7AM to 4PM), 2nd shift (4PM to 1AM) and 3rd Shift (11PM to 5AM) as per requirement. Drawing, Raw materials and Tools will be provided by BHEL. Drilling Machines 20/A/18 (single operator), 20/A/17 (single operator) & 20/A/19 (single operator).
2. Material handling work in machine shop.
3. Cleaning of machines because of dust, coolant and chips. Chips to be kept in Chips Bin.
4. Refilling of coolant, lubrication oil, hydraulic oil etc.

DURATION OF CONTRACT:

Duration of contract is for a period of 10 months from the date of start of work, which should be within one week from date of issue of LOI/WO. Duration of contract shall be strictly based on the performance which will be evaluated after every three months by BHEL authority. BHEL also reserves the right to short close the contract at its discretion.

WORKING HOURS:

1. Party has to work in 1st Shift (7AM to 4 PM) and 2nd Shift (4PM to 1AM) during all working days. If required, manpower is to be deployed in 3rd Shift (11PM to 5AM), Sundays and Holidays, as informed by Section In-charge. Contractor should ensure prior permission is issued from HR and CISE, if required for above mentioned duty hours.
2. Payment to the contractor shall be monthly on the basis of work done in technological hours.
3. The technicians deployed should be qualified and having adequate experience.
4. The person deployed shall wear shoes, uniform and helmet as per General Terms & Conditions and Safety Regulations. Contractor shall provide helmet, safety shoes and uniform to workers as per following schedule:

Sign and seal of contractor

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- a) One industrial safety helmet at starting of WO.
- b) One set of safety shoes in every one year.
- c) One set of uniform to workers in every six months.

PAYMENT TERMS:

- a) Payment shall be made against the submitted bill as per BHEL specified format on monthly basis.
- b) Payment will be made to contractor on the basis of work done in technological hours.
- c) The contract is a fixed price contract & **NO ESCALATION** of price will be permissible during any stage of contract.
- d) Computer soft copy in word and excel format shall be also submitted apart from hard copy of bill. Payment shall be made after deduction of income tax and other deductions as may be necessary as per the conditions of the contract.
- e) Penalty, if any, shall be deducted from the running bill payments.
- f) Docket and raw material for machining of jobs shall be provided in the beginning of each job. Docket contains job card which has to be filled and signed by Shop In-charge/ supervisor and Quality inspector as a proof of satisfactory completion of work. Job cards have to be arranged & booked by contractor for all the jobs done by contract workers under works contract. Contractor has to get the job cards verified and signed by Quality deptt. of STM (QST). However, contracting deptt. will help in allotment of actual hours taken in manufacturing of jobs. Summary of job cards in soft and hard copy has to be submitted along with the running bills for verification and further processing.
- g) GST shall be payable extra as applicable. Any loss of credit due to the reason attributable to the contractor shall be recovered from them.

COST OF REWORK/REJECTION:

Cost of rework/rejection will be recovered from the contractor, if the same has found to be occurred due to negligence/ lack of skill of the operator. Contractor has to maintain the quality of work as well as try to complete the work on prescribed time. Calibration of measuring instrument should be ensured before checking the job dimension.

PENALTY:

In case, contractor fails to deploy required manpower as per agreed terms and conditions, the production work in HMS machine shop will suffer. Therefore, penalty shall be deducted from running bills. The bidder has to ensure to deploy minimum number of skilled operators so that machines running under works contract are run for specified no. of shifts (except when machine is under breakdown). Non-compliance of the same will lead to penalty as follows:

Condition	Penalty amount
For non-running of machines due to non-deployment of minimum number of skilled operators for 8 hours	8 technological hours penalty will be imposed

NOTE: This penalty is over and above the deduction from running bill. GST in penalty shall be extra as applicable.

Sign and seal of contractor