

## **SCOPE OF WORK FOR PURGING OPERATION OF BH150E & BH205E TANKS**

### **1) Purging of BH150E & BH205E Hydraulic Tank & Fuel Tank:**

The Equipment wise approximate quantity of purging operation for Hydraulic tank & Fuel tank of BH150E & BH205E equipments upto Nov 2020 is tabulated below,

Sl.No	Model	No of Hyd. Tanks	No of Fuel Tanks	Total No of Tanks
		A	B	C=A+B
1	BH205E	4	4	8
2	BH150E	7	7	14
<b>TOTAL</b>		<b>11</b>	<b>11</b>	<b>22</b>

**Note:** The contract period is upto Nov 2020. The Qty is arrived based on production programme (Ref: YP/GC-110/010, Dated: 20.05.2020). If there is any increase in the PI Plan / master schedule, suitable amendment will be issued to the PR.

#### **1.1.1) Purging of Hydraulic tank & Fuel tank:**

The following points should be ensured for the effective functioning of the purging unit:-

- Purging unit section should be in clean environment.
- The Oil filling / drain reservoir should contain around 200 ltrs of Diesel / Kerosene Oil.
- The functioning of nozzles, hoses, filter, pumps, gauges etc., should be monitored regularly.
- The filling / drain reservoir should be cleaned regularly.
- The Diesel / Kerosene Oil should be replaced regularly based on the lab reports for contamination. Refer KES standard 06.714.41 for acceptance criteria.

#### **Purging Procedure:**

- 1) Close all ports, tapped holes etc., by using appropriate plastic caps, plugs, seals etc., except inlet port (Large port) of the hydraulic / fuel tank.
- 2) Lift the Hydraulic / Fuel tank using crane and position on filling / drain reservoir.
- 3) Fill the clean & fresh Kerosene / Diesel oil in to the hydraulic / fuel tank through inlet port (large port) using pressure jet gun (22kg/cm<sup>2</sup> or 312 Psi). The Quantity of Kerosene / Diesel oil to be filled for BH150E & BH205E hydraulic & fuel tank is 40 liters as per KES standard 06.714.41.
- 4) Clean thoroughly all the inside surface of the tank, use compressed air to dry the areas flushed with oil. Remove the tank from the filling / drain reservoir.
- 5) Suck the dust particles if any using vacuum pump unit.
- 6) Visually check for any contamination in the Hydraulic / Fuel tank using electrical lamp.
- 7) If the dust particles present in the tank, again suck the same using vacuum pump unit.
- 8) Again visually check for any contamination in the Hydraulic / Fuel tank using electrical lamp / torch light.

- 9) Wipe off the dust particles if any using clean cotton cloth to ensure proper cleanliness of the tanks.

## **2) Terms & Conditions:**

- ❖ The purging operation should be carried out as per BEML standard purging procedure as mentioned above.
- ❖ The work has to be carried out in specified place within Mysore Complex premises on two shift basis (First & Second Shift).
- ❖ The facilities like filling / drain reservoir, tank closing ports/seals/plugs, Diesel Filter Unit, Vacuum Unit, Cleaning Oil (Diesel / Kerosene) , Cotton Waste and Lighting will be provided free of cost by BEML Ltd.
- ❖ The contractor has to replace the contaminated oil (Diesel / Kerosene) with fresh oil on regular intervals as per the instructions by quality engineering & shop in charge.
- ❖ If there is any change in production plan, accordingly sufficient additional man power should be deployed by the contractor as directed by shop in-charge.
- ❖ Purging operation carried out by the contractor will be certified by Shop in charge & Quality Inspector.

## **3) House Keeping:**

- ❖ The hydraulic tank & fuel tank offered for purging operation should be kept in an orderly manner.
- ❖ The purging unit areas should be kept clean and tidy to maintain good housekeeping.
- ❖ Contractor should take necessary measures to avoid wastage of cleaning oil, electricity, compressed air, water and other related items.

## **TERMS AND CONDITIONS.**

1. Labour force not below the age of 18 years should be engaged to carry out the subject work.
2. Required labourers have to be maintained in all the days.
3. As & when load increases, the no. of workers supplied, also should be increased proportionately to cater the purging operations on day to day basis.
4. The work should be carried out with high degree of efficiency and cleanliness without damaging the company properties.
5. Please note that Contractor should have their own ESI/PF code nos. The successful tenderer should submit their ESI/PF Code Nos.
6. The contractor or his authorized representative should be present in the work spot during working hours to receive instructions from the Engineer-in-charge to carry out the work every day effectively and satisfactorily.
7. Contractor should employ only ESI registered workmen on any item of work inside the factory. If Contractors have workmen who are not yet been registered under ESI, they should ensure that the workers are duly registered before employing them for the work.
8. All claims arising by or at the instance or on account of the persons employed by the Contractor or on account of wages, allowances, PF, ESI, Gratuity or retrenchment compensation under the Workmen's Compensation Act, or otherwise, shall be met by the Contractor on his own account and the company shall be kept fully indemnified. The company shall have no liability in that behalf.
9. If there is any default on the part of the Contractor, an estimated amount towards ESI liability, including the penalty/damage, will be recovered by the company from the bills of the contractors or any other source irrespective of whether it is specifically charged or not.
10. Contractor will settle the claims of the employee whenever such claims arise, either due to termination, discontinuance or death and keep the company indemnified.
11. The labourers shall be dutiful and obedient and execute the works assigned to them continuously and efficiently.
12. The Contractor is responsible for the regular attendance and proper conduct and behavior of the labourers supplied by him.
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14. In the event of contractor failing of neglecting to carry out the work, the Company shall be entitled to recover damages from the Contractor such damages being equivalent to the extra amount which the company is obliged to pay for getting the work done by other agency and in addition the company shall be entitled to forfeit to itself the security deposits or any part thereof remaining to the credit of the contractor or at its option also be entitled to terminate this contract.
15. **ACCIDENT/INJURY:**  
In the event of any accident/injury, disablement, the Contractor shall arrange to pay the requisite compensation legally payable to the concerned employee/dependents and also indemnify BEML in case of any claims arising there of later. Required safety aids and equipments are to be provided to the workers while at work.
16. The work has to be carried out in First and Second Shifts and also Third Shift if required everyday for all the seven days in a week including Sundays and Holidays as directed by the Officer-in-charge.
17. Management reserves the right to ask the contractor to dispense with the services of any labourers who is reported to be of doubtful integrity.
18. **Safety Appliances:** It is the responsibility of the contractor to provide safety appliances like hand gloves, shoes, gum boots, etc. wherever required to the Labourers who are engaged for the job. The Contractor should ensure that the Labourers wear them daily while on duty.
19. The company is not liable for any loss or damage of tools and materials brought by the contractor. Also contractor will have to take back his tools materials brought by him within the time specified by the Engineer-in-Charge.
20. The firm shall be deemed to have studied the scope of work and extent of each item of work thoroughly for the unit price finalised which shall be deemed to include for all works necessary to ensure that the complete work is sound and is with a neat and good finish.
21. **Accident Damages :** The contractor is solely responsible for making good the damages occurring on account of any accidents to his labour due to his failure to take safety measure of whatsoever may be the reason.

22. Work has to be carried out without disturbing the working atmosphere. No inconvenience should be caused to the officers/employees movements.
23. All statutory recoveries such as ESI, PF has to be remitted by the contractor to the respective authorities and duly paid vouchers to be submitted along with bills. Taxes (TDS) shall be recovered on the gross payments as applicable.
24. **PAYMENT : 100% payment will be made against certification by user department.**
25. **Payment Of Bonus** @ 8.33% of paid Minimum Wages or Rs 7000/-, which ever is higher, should be paid by the contractor as per the Revised Payment of Bonus Act. The same shall be reimbursed to the contractor on demand subject to production of proof of payment.
26. TAXES & DUTIES APPLICABLE
27. Income Tax: As applicable the Income tax will be deducted at source.
28. Other Duties : The price quoted by the tenderer should include all duties, octroi, royalties etc., if any payable by the contractor. Service tax as applicable will be paid by BEML.

For BEML LIMITED.

Sd/-

AGM-Materials.