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## **SECTION 5 SPECIFICATIONS FOR COMPREHENSIVE SERVICE AND MAINTENANCE OF THE WORKSHOP EQUIPMENTS**

### **5.1 GENERAL**

The work covered by this Specification is for the supply of all materials, appliances, labour and necessary incidentals for the service and maintenance of the Workshop Equipment.

All work to be performed under this Specification shall be in accordance with the best commercial practice and must be in strict accordance with this Specification.

### **5.2 WORKMANSHIP AND MATERIALS**

The work described in this Specification shall be performed by workmen skilled in the service, maintenance and repair of Compressed Air system equipment and shall be executed in accordance with the best commercial practice.

All materials to be supplied in connection with work under this Specification shall be new and unused and shall generally be of the best quality as regards manufacture and performance.

### **5.3 SUPERVISION**

The Sub-Contractor shall have a Foreman in charge of service, maintenance and repair work to be carried out under this Specification. This Foreman must be thoroughly competent in supervising the service, maintenance and repair of all types of Compressed Air equipment and shall be in the direct employ of the Sub-Contractor and acceptable to the Superintending Officer.

### **5.4 SCOPE OF WORK**

All machinery and equipment comprising the complete Workshop Equipment shall be serviced and maintained in strict accordance with the Servicing and Maintenance Schedule as set in Clause 3.5 below.

The Sub-Contractor shall advise the Superintending Officer of any defects in any part or parts of complete Workshop Equipment observed during routine inspection and service and shall repair such defects if required to do so by the Superintending Officer.

The Sub-Contractor shall also provide emergency repair service during normal working hours and also during overtime hours if required to do so by the Superintending Officer.

### **5.5 SERVICING AND MAINTENANCE SCHEDULE**

The Sub-Contractor shall inspect and service all machinery and equipment comprising the complete Workshop Equipment at the above premises by drawing out and approved checked list for the regular service and maintenance.



It shall be the responsibility of the Sub-Contractor to report and advise writing to the Superintending Officer, any defects in the Workshop Equipment installation in order that preventive maintenance is earned out.

The report shall state observed defect and its cause, the plan to be replaced or renewed and shall also include an estimated of the cost of repairs.

#### 5.6 CONSUMABLE MATERIALS

The Sub-Contractor shall supply the following consumable materials as and when required:-

- (a) All oils and greases required for lubrication of compressors, fan-motor bearings, pivots and other moving parts.
- (b) All carbon brushes required to replace worn brushes in fan motors.
- (c) All electric contact points required to replace worn electric contact points in switch gears, motors starter gears, electric control gears and electric relays.
- (d) All electric fuses required to replace blown fuses.
- (e) All cotton waste, soap detergent and other cleaning materials required for cleaning purposes.

The cost of these consumable materials shall not be charged for separately by the Sub-Contractor, but shall be included in the price quoted by the Sub-Contractor for the service and maintenance of the complete Workshop Equipment.

#### 5.7 REPAIRS

The Sub-Contractor shall repair all defects in the complete Workshop Equipment on the instructions of the Superintending Officer.

The cost of such repairs shall be separate and shall not be included in the fixed monthly rate quoted by the Sub-Contractor for the service and maintenance of the complete Workshop Equipment. However, the Sub-Contractor shall rectify all defects in repairs at his own expenses during the maintenance and guarantee period which follows from the completion.

All repairs on the complete Workshop Equipment shall be guaranteed by the Sub-Contractor against defects in workmanship and materials for a period of one year to take effect from date of completion of the repairs.

#### 5.8 SERVICE AND MAINTENANCE RECORDS

- (a) The contractor shall provide a service and maintenance record book for the complete Workshop Equipment being serviced and maintained by him. This record book shall be kept in the owner's room of the Workshop Equipment being service and maintained, and brief details of all service, maintenance



and repairs carried out on complete Workshop Equipment shall be entered by the Sub-Contractor into this book for checking purposes. The address and telephone number of the Sub-Contractor's service station shall also be entered into this record book to facilitate emergency service call.

- (b) The Sub-Contractor shall also keep an accurate detailed record in duplicate of all service, maintenance and repair work carried out by him on the complete Workshop Equipment. This record shall be in the form of a Maintenance/Repair Sheet, and shall be countersigned by the Superintending Officer each time the Workshop Equipment are attended to by the Sub-Contractor.

#### 5.9 RATES FOR SERVICE AND MAINTENANCE

The price for the service and maintenance of the complete Workshop Equipment shall be stated by the Sub-Contractor at the time he submits his tender. He shall fill in the column provided under Clause 5.10.

This price shall hold good for the period of **THREE** years commencing from the end of the guarantee period. The Sub-Contractor may be required to enter into the contract for the above period with the Government on the Standard Form of Contract for Service and Maintenance of Workshop Equipment (a copy of this Standard Form may be inspected at the office of Pengarah Kanan, Cawangan Kejuruteraan Mekanikal, Ibu Pejabat JKR Malaysia, KUALA LUMPUR)



5.10 **SCHEDULE OF RATES FOR THE COMPREHENSIVE SERVICE AND MAINTENANCE OF THE COMPLETE WORKSHOP EQUIPMENTS AFTER WARRANTY PERIOD**

The Tenderer is to note that the prices quoted will be binding in the event that the Government decides to accept either of them immediately after the guarantee period.

These prices should not be subjected to variation for the period of three years after the guarantee period.

**RATES BASED ON CONTRACT PERIOD OF THREE YEARS ONLY**

<b>For Service and Maintenance of the complete Workshop Equipment at the above premises in strict accordance with clause 3.5 of the Tender Specifications and for supply of all consumable materials listed in section 3.6 of the Tender Specifications as and whenever required and to provide emergency repair service during normal working hours and overtime hours as required.</b>	<b><u>Charge Per Year</u></b>  RM
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Tandatangan  
Pentender:

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Nama dan Alamat:

(Dengan Cop)

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Tarikh:

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Tandatangan  
Saksi:

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Nama dan Alamat:

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Tarikh:

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