

**Major Overhauling of Cummins/Perkins/CAT/ Deutz etc. make Engines 15 to 630 KVA**

**Name & Address of the Participant Company** ……………………………………………..

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**SCOPE OF WORK:**

PTCL intends to over-haul large number of gen sets in its network, time to time. These comprise of Perkins/ Cummins/CAT/ Deutz etc. make engines. Major Overhauling shall be done with genuine parts to be obtained from manufactures or its distributors with certificate of authorization. A frame agreement shall be signed with successful bidders, for repeating the work throughout Pakistan.

Purpose of this RFI (Request for information) is to get acquainted with potential bidders and their capabilities in this business, who will formally participate in HQs/ regional tenders, after this RFI.

Participants shall submit their profile and proposals to carry out the works according to PTCL requirement, focusing on technical details and budgetary prices.

Tentative BoQ for the work may be as follows; however participants may suggest improvement in it in this RFI stage.

Proposals as soft copy to be submitted to **arshad.ahsan@ptcl.net.pk** not later than

**30th June 17**. If some participant wants to conduct survey of few sites, request may be forwarded to us, but time-line for submitting response to RFI should not be affected. Clarifications, if any, may be obtained from the same email id or @ 0333-5179161.

**BoQ for Major Over-hauling of Gen sets:**

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| **(A) Labour Services & Machining Job** |
| **S #** | **Description** | **Qty.** | **Rate (Budgetary)** | **Amount** |
| 1 | Overhauling of the 15 KVA engine **(repeat same table for capacities from 15-630 kVA)** with throughout checking, dismantling the faulty spares, fixing the above new spares, Servicing and cleaning, setting all the electromechanical parameters I/C commissioning testing on the existing load etc. as required.  | Job |   |   |
| 2 | Repairing of Cylinder Head with checking, dismantling the faulty spare parts etc. as required | Job |   |   |
| 3 | Repairing of head injector with checking, dismantling the faulty spares, calibration etc. as required | No. |   |   |
| 4 | Calibration of fuel pump and injectors’ assembly I/C replacing of faulty components like nozzle, element, D. valves, washers etc pressure testing & setting as required. | Job |   |   |
| 5 | Repairing of turbocharger with checking, dismantling the faulty spares etc. as required. | Job |   |   |
| 6 | Repairing of Governor with checking, dismantling the faulty spares, calibration etc. as required. | Job |   |   |
| 7 | Complete checking the crank shaft, repairing and realigning the same in lathe, including turning and grinding from standard to 10 size, as required. Refitting including testing and commissioning as required. | Job |   |   |
| 8 | Dismantling the radiator and chemical cleaning of complete radiator unit of the above DEA set by using suitable wire gauge and chemical solution with circulating and suitable water pressure through tubes of the unit I/C water leakage testing, rectification of water leakage if any, reinstallation after cleaning I/C transportation from work - site work shop and back etc. as required | Job |   |   |
| 9 | Transportation of the above repairing assembly / items from site to workshop as required | Job |   |   |
| 10 | List and quantity of spare parts as per DG set inspection and expected works for complete overhauling |  |  |  |
|   | **Total:-** |  |

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| **(B) Spare Parts :-** |
| **Sl. No.** | **Description** | **Part No.** | **Qty.** | **Rate** | **Amount** |
| 1 | Kit Linear |  |  |   |   |
| 2 | Kit Piston with Ring Complete Set |  |  |   |   |
| 3 | Set Main Bearing (20mm) |  |  |   |   |
| 4 | Bearing Connecting (10mm) |  |  |   |   |
| 5 | C. R. Bush |  |  |   |   |
| 6 | Bearing Thrust |  |  |   |   |
| 7 | Cam Bush |  |  |   |   |
| 8 | Gasket Set |  |  |   |   |
| 9 | Gas kit Cylinder Head |  |  |   |   |
| 10 | Valve Exhaust |  |  |   |   |
| 11 | Valve Intake |  |  |   |   |
| 12 | Insert Valve |  |  |   |   |
| 13 | Guide Valve Steam |  |  |   |   |
| 14 | Rear Seal Oil |  |  |   |   |
| 15 | Front Seal Oil |  |  |   |   |
| 16 | Nut Heavy Hexagon |  |  |   |   |
| 17 | Shaft cam follower |  |  |   |   |
| 18 | Roller cam follower |  |  |   |   |
| 19 | Rod Push |  |  |   |   |
| 20 | Rod Push |  |  |   |   |
| 21 | Sleeve Injector |  |  |   |   |
| 22 | Nut Regular Hexagon |  |  |   |   |
| 23 | Screw Slotted Set |  |  |   |   |
| 24 | Gas kit Water Pump |  |  |   |   |
| 25 | Screw Hexagon Head Cap |  |  |   |   |
| 26 | Connector Female |  |  |   |   |
| 27 | Cap Filter |  |  |   |   |
| 28 | Core Cooler |  |  |   |   |
| 29 | Gas kit Lube Oil Cir Cover |  |  |   |   |
| 30 | Retainer Oil Cooler |  |  |   |   |
| 31 | Seal 'O' ring |  |  |   |   |
| 32 | Seal 'O' ring |  |  |   |   |
| 33 | Control Safety (LLOP) |  |  |   |   |
| 34 | Control Safety (HWT) |  |  |   |   |
| 35 | Hour Meter |  |  |   |   |
| 36 | Cable Flexible Drive |  |  |   |   |
| 37 | Gauge Temperature |  |  |   |   |
| 38 | Control Vernier |  |  |   |   |
| 39 | Cap Radiator |  |  |   |   |
| 40 | Gas kit Turbocharger |  |  |   |   |

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| **Sl. #** | **Description** | **Part No.** | **Qty.** | **Rate** | **Amount** |
| 41 | Rubber Block |  |  |   |   |
| 42 | Clamp House |  |  |   |   |
| 43 | Clamp plain |  |  |   |   |
| 44 | Calmp House |  |  |   |   |
| 45 | Hose Plain |  |  |   |   |
| 46 | Hose Flexible |  |  |   |   |
| 47 | Hose Flexible |  |  |   |   |
| 48 | Belt. V |  |  |   |   |
| 49 | Belt .V |  |  |   |   |
| 50 | Belt. V |  |  |   |   |
| 51 | Lube Oil Filter |  |  |   |   |
| 52 | Fuel Filter |  |  |   |   |
| 53 | Super Bypass Filter |  |  |   |   |
| 54 | Air Cleaner (IN) |  |  |   |   |
| 55 | Air Cleaner (OUT) |  |  |   |   |
| 56 | Collet Valve |  |  |   |   |
| 57 | Cam Shaft |  |  |   |   |
| 58 | Lube Oil Valvoline |  |  |   |   |
| 59 | Inhibitor Corrosion |  |  |   |   |
|  60 | Valve Insert Intake |   |   |  |  |
| 61 | Valve Insert Exhaust |  |  |  |  |
| 62 | Turbo Repair Kit |  |  |  |  |
| 63 | Water Pump Repair Kit (Major) |  |  |  |  |
| 64 | Water Filter |  |  |  |  |
| 65 | Upper Engine Gasket |  |  |  |  |
| 66 | THERMOSTAT |  |  |  |  |
| 67 | SEAL,THERMOSTAT |  |  |  |  |
| 68 | BARREL & PLUNGER,STEPPED |  |  |  |  |
| 69 | CUP,INJECTOR |  |  |  |  |
| 70 | GASKET,INJECTOR |  |  |  |  |
| 71 | SCREEN,INJECTOR FILTER |  |  |  |  |
| 72 | RETAINER,INJECTOR FIL SCN |  |  |  |  |
| 73 | GASKET,THERMOSTAT HOUSING |  |  |  |  |
| 74 | PISTON,ENGINE |  |  |  |  |
| 75 | BEARING,CON ROD (STD) |  |  |  |  |
| 76 | SET,MAIN BEARING (STD) |  |  |  |  |
| 77 | SET,LOWER ENGINE GASKET |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  | **Total:-** |  |
| **Bidder may quote any additional spare part item if not listed above. Bidder may also drop repeated item in above list.**  |

**Note: -**

1. Quoted rate shall be fair budgetary estimate, inclusive of all taxes.

(iii) **The spares required for this, shall be purchased from the manufacturer or company authorized dealer. Bidder will be required to submit original receipt and source of spare parts.**

 Dated:-

 Signature of the Participant