NATIONAL INSTITUTE OF MENTAL HEALTH AND NEURO SCIENCE BANGALORE-29.

Ref.No. NIMH/ENG/EE/ 523 /2020-21 Dt: 23 /06/2020

.

QUOTATION NOTIFICATION

Sub: 1) Annual Labour maintenance contract of 12No’s of Diesel Engines of DG sets.

 2) Rate contract for supplying ‘B’ check spares to 15 No’s of Diesel engines.

 3) Supply of materials for maintenance to these Diesel Engines as & when they

 fail.

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Please furnish your lowest quotation for following work addressed to the Executive Engineer, National Institute of Mental Health and Neuro Sciences, Post Bag.No. 2900, Hosur Road, Bangalore-29, so as to reach the undersigned by 3.00 p.m. on or before 29/06/2020. Quotations will be opened on the same day at 3.30 p.m. in the presence of agencies. Please furnish your quotation in a sealed cover.

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| --- | --- | --- | --- | --- | --- |
| Sl.No | Description of the work  | Unit | Apprx Quantity | Rate to be quoted in figs/words  | Amount  |
| 1 | As per the enclosed annexurees A,B,C |  |  |  |  |
|  |  |  |  | Total Rs. |  |

Signature of the agency

after duly accepting the quotation Executive Engineer

with address and rubber stamp. NIMHANS, BANGALORE

ANNEXURES ‘A’

 Annual maintenance contract (labour) of 12 Nos. DG sets at NIMHANS.

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|  Sl.No | Description of the work  | Unit | Apprx Quantity | Rate to be quoted in figs/words  | Amount  |
|  | Annual maintenance contract (labour) of following DG sets.For the period From 1.7.2020 to30.6.2021. |  |  |  |  |
| 1. | Cummins 1010KVA DG set of Neuro centre | Nos | 02 |  |  |
| 2. | Ashoka Lylond 1010 KVA DG set of Hospital side | NO | 1 |  |  |
| 3 | Cummins 750KVA DG set of Administrative block and Hospital side | NOs | 02 |  |  |
| 4 | Cummins 2x437.5 KVA DG set of Convention centre | Nos | 02 |  |  |
| 5 | Cummins 1x63.5 KVA DG set of Data centre | NO  | 01 |  |  |
| 6 | KOHLER 250 KVA DG sets at OPD | Nos | 02 |  |  |
| 7 | Cummings 250KVA DG set at Sakalawara | No | 1 |  |  |
| 8 | Cummings 250 KVA DG set at NBRC | NO | 1 |  |  |
| 9 | Detailed scope of work As per enclosed Annexure”c” |  |  |  |  |
|  | Total Rs. |  |  |  |  |
|  |  |  |  |  |  |

 Signature of the Agency Executive Engineer

ANNEXURES ‘B’

 B check spares.

 (FOR RATE CONTRACT ONLY)

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| Sl.No | Description of the work  | Unit | Apprx Quantity | Rate to be quoted in figs/words  |
| 1 | B CHECK KIT FOR VT 1710-G-437.5 KVA -2 NOS OF CONVENTION CENTRE |  |  |  |
|  | A)ELEMENT LUB OIL FILTER | Nos. | 12 |  |
|  | B) KIT FUEL FILTER  | Nos. | 8 |  |
|  | C) KIT SUPER BY PASS FILTER | Nos. | 4 |  |
|  | D) INHIBITOR CORROSION  | Nos. | 4 |  |
|  | E) AIR FILTER INNER-OUTER | Nos. | 4 |  |
|  | F) SEAL ORING | Nos. | 24 |  |
| 2 | B CHECK KIT FOR CUMMINGS 1010KVA – 2 NOS, NEUROCENTRE  |  |  |  |
|  | A) LUB OIL FILTER | Nos. | 8 |  |
|  | B) FUEL FILTER | Nos. | 4 |  |
|  | C) BY PASS FILTER | Nos. | 4 |  |
|  | E) COOLENT | LTRS | 10 |  |
|  | F) AIR FILTER  | Nos. | 4 |  |
|  | G) ENGINE OIL | LTRS | 400 |  |
| 3 | B CHECK KIT FOR KTA 38-G IX 750 KVA- DG SET -1NO OF ADMN BLOCK.& 1NO HOSPITAL SIDE (2 NOS) |  |  |  |
|  | A)ELEMENT LUB OIL FILTER | Nos. | 16 |  |
|  | B) KIT FUEL FILTER | Nos. | 8 |  |
|  | C) KIT SUPER BY PASS FILTER | Nos. | 8 |  |
|  | E) INHIBITOR CORROSION | Nos. | 8 |  |
|  | F) SEAL ORING | Nos. | 32 |  |
|  | G)AIR FILTER INNER-OUTER | Nos. | 4 |  |
|  | F) OIL | LTR. | 120 |  |
| 4 | B CHECK KIT FOR S3.8G7 NEW DG SET DATA CENTRE-1(63.5 KVA) |  |  |  |
|  | 1. DIESEL FILTERS
 | Nos | 2 |  |
|  | 1. OIL FILTERS
 | Nos | 2 |  |
|  | 1. AIR FILTERS
 | Nos | 2 |  |
|  | 1. COOLANT
 | LITRES | 10 |  |
|  | 1. OIL
 | LITRES | 30 |  |

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| Sl.No | Description of the work  | Unit | Apprx Quantity | Rate to be quoted in figs/words |
| 5 | ‘B’ CHECK KIT FOR 250 KVA DG SET 2 NOS OF OPD |  |  |  |
|  | A)OIL FILTER | Nos. | 04 |  |
|  | B)FUEL FILTER | Nos. | 04 |  |
|  | C)ENGINE OIL | ltr | 08 |  |
|  | D)COOLANT | can | 02 |  |
|  | E) CLEANING MATERIAL | kg | 8.0 |  |
|  | F)AIR FILTER | Nos. | 02 |  |
|  | G)DELIVERY CHARGES | L/s |  |  |
|  | H)SERVICE CHARGES | L/s |  |  |
| 6 | ‘B’ CHECK KIT FOR 250 KVA DG MODEL CTA 8.3G OF NBRC( 1NO) |  |  |  |
|  | A)LUB OIL FILTER | Nos. | 01 |  |
|  | B)CORROSION FILTER | Nos. | 01 |  |
|  | C)FUEL WATER SEPARATOR | Nos. | 01 |  |
|  | D)COOLANT | Can | 01 |  |
|  | E)AIR FILTER INNER | Nos. | 01 |  |
|  | F)AIR FILTER OUTER | Nos. | 01 |  |
|  | G)LUB OIL PREMIUM BLUE 15W 40 | ltr | 40 |  |
| 7 | ‘B’ CHECK KIT FOR KOEL ENGINE OF MODEL RB 44 OF FIRE ENGINE PUMP OF CONVENTION CENTRE.( 1NO) |  |  |   |
|  | 1. LUB OIL FILTER
 | Nos | 01 |  |
|  | 1. FUEL FILTER
 | Nos | 01 |  |
|  | 1. CLEANING MATERIAL
 | Kg | 2.0 |  |
| 8 | B CHECK FOR 1010 KVA DG SET ASHOKA LEYLAND HOSPITAL SIDE (1 NO) |  |  |  |
|  | A)OIL FILTER | NO | 3 |  |
|  | B) DIESEL FILTER | NO | 4 |  |
|  | C) BY PASS FILTER | NO | 4 |  |
|  | D) AIR FILTER | NO | 4 |  |
|  | 1. OIL
 | LTR. | 120 |  |
|  | 1. PRIMING PUMP WITH ACCESSORIES
 | SET | 1 |  |
|  | 1. BUILT IN CHARGER WITH BATTERY 24 VOLT 100AH
 | SET | 1 |  |

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| 9 | B’ CHECK KIT FOR CUMMINS ENGINE OF 125 KVA MEG(1NO) |  |  |  |
|  | 1. LUB OIL FILTER SPINON
 | Nos | 02 |  |
|  | 1. FUEL FILTER SPIN ON TYPE
 | Nos | 02 |  |
|  | 1. AIR FILTER
 | Nos | 02 |  |
|  | 1. SEAL ‘O’ RING
 | Nos | 20 |  |
| 10 | B CHECK KIT FOR 100 KVA DG SET AT DSA-2 ( 1 NO) |  |  |  |
|  | 1. DIESEL FILTER
 | NO | 1 |  |
|  | 1. OIL FILTER
 | NO | 1 |  |
|  | 1. FUEL SEPARATOR
 | NO | 1 |  |
|  | 1. AIR FILTER
 | NO | 1 |  |
|  | 1. COOLENT GREEN
 | LTR. | 5 |  |
|  | 1. ENGINE OIL
 | LTR. | 20 |  |
| 11 | B CHECK KIT 250 KVA SET CUMMINS AT SAKALA WARA (1NO) |  |  |  |
|  | A)ELEMENT LUB OIL FILTER | Nos. | 2 |  |
|  | B) KIT FUEL FILTER | Nos. | 2 |  |
|  | C) KIT SUPER BY PASS FILTER | Nos. | 2 |  |
|  | E) INHIBITOR CORROSION | Nos. | 2 |  |
|  | F) SEAL ORING | Nos. | 2 |  |
|  | G)AIR FILTER INNER-OUTER | Nos. | 2 |  |
|  | F) OIL | LTR. | 60 |  |
|  |  |  |  |  |

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| 12 | MAINTENANCE SPARES FOR 12 DG SETS |  |  |  |
|  | A)WATER SAFETY CONTROL | Nos. | 2 |  |
|  | B) OIL SAFETY CONTROL | Nos. | 2 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | C) SHUT DOWN WALVE | Nos. | 2 |  |
|  | D) TAPPET COVER GASKET | Nos. | 6 |  |
|  | E) STARTING SWITCH | Nos. | 2 |  |
|  | F) FLEXIBLE COUPLING WATER | Nos. | 2 |  |
|  | G) EXHAUST BELLOW | Nos. | 1 |  |
|  | H) ADAPATOR EXHAUST TURBO | Nos. | 1 |  |
|  | I)ELBOW EXHAUST TURBO | Nos. | 1 |  |
|  | J) MAGNETIC SWITCH | Nos. | 2 |  |
|  | K) SELF STARTER FOR 250/320/437.5 | Nos. | 1 |  |
|  | L) HOUR METER | Nos. | 4 |  |
|  | M) CABLE HOUR METER | Nos. | 4 |  |
|  | N)RADIATOR CORE ASSEMBNLY | Nos. | 1 |  |
|  | O)ELECTRONIC FUEL CONTROL | Nos. | 1 |  |
|  | P)OIL SAFETY CONTROL | Nos. | 2 |  |
|  | Q) HOSE FUEL FILTER TO TANK | Nos. | 2 |  |
|  | R) HOSE FUEL FILTER TO TANK | Nos. | 2 |  |
|  | S) HOSE WATER SEPRATOR | Nos. | 2 |  |
|  | T) HOSE TURBO SUPPLY | Nos. | 2 |  |
|  | U) HOSE RETURN | Nos. | 2 |  |
|  | V) HOSE BY PASS | Nos. | 2 |  |
|  | W)HOSE OIL SUCETION | Nos. | 2 |  |
|  | X) ACTUATOR | Nos. | 3 |  |
|  | Y) WATER SAFETY CONTROL | Nos. | 5 |  |
|  | Z) OIL SAFETY CONTROL | Nos. | 4 |  |
|  | AA) SHUT DOWN VALVE | Nos. | 5 |  |
|  | AB) TAPPET COVER GASKET | Nos. | 16 |  |
|  | AC) FLEXIBLE COULING WATER SET | Nos. | 2 |  |
|  | AD) EXHAUST BELLOWS | Nos. | 2 |  |
|  | AE) MAGNETIC SWITCHES | Nos. | 4 |  |
|  | AF) SELF STARTER | Nos. | 3 |  |
|  | AG) HOUR METER | Nos. | 1 |  |
|  | AH) RADIATOR CORE ASSEMBLY | Nos. | 2 |  |
|  | AI) ELECTRONIC FUEL CONTROL | Nos. | 4 |  |
|  | AJ) FUEL AND OIL HOSE SET | Nos. | 4 |  |
|  | AK) TURBO CHARGER ASSEMBLY | Nos. | 3 |  |
|  | AL)TURBO HOSES | Nos. | 2 |  |
|  | AM) BATTERY CHARGER DYNAMO | Nos. | 4 |  |
|  | AN) FAN BELT | Nos. | 12 |  |
|  | AO) BATTERY 24V 160AH By back | Nos. | 8 |  |
|  | AP) BATTERY 12V 65AH By back | Nos. | 4 |  |
|  | AQ) BATTERY 12V 100AH By back | Nos. | 8 |  |
|  | AR) BATTERY 12V 160AH By back | Nos. | 8 |  |
|  | AS) BATTERY 24V 100AH By back | Nos. | 8 |  |
|  | AT) OIL COOLERS | Nos. | 6 |  |
|  | AU) WATER PUMP ASSEMBLY | Nos. | 2 |  |
|  | AV) ECP POWER COM | Nos. | 4 |  |
|  | AW) FUEL PUMP CALIBRATION | Nos. | 3 |  |
|  | AX) FUEL INJECTOR CALIBRATION | Nos. | 3 |  |
|  | AY) OIL SENSORS | Nos. | 8 |  |
|  | AZ) WATER SENSORS | Nos. | 8 |  |
|  | BA) PRIMING PUMP AND ACCESSORIES | Nos. | 3 |  |

Note: GST shall be mentioned clearly.

Signature of the agency

after duly accepting the quotation Executive Engineer

with address and rubber stamp. NIMHANS, BANGALORE

ANNEXURES ‘C’

Detailed scope of work.

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| Sl No | Description of the item |
| 1 | Monthly visit to each Engine (12 visits)1. To carryout preventive maintenance of endine.
2. Inspection of recording of engine operating parameters and correct minor problems.
3. Repair and adjustments which are minor in nature.
4. Monitor the condition of Hoses and connections.
5. Carryout ‘B’C” checks whenever due.
6. Checking of battery conditions and distilled water top up.
7. Lord trial.
 |
| 2 | Half yearly/yearly schedules.1. Checking and recording the end clearances of critical components such as crank shaft, ACC drive, Turbo charge, water pump drive once in six month.
2. Checking alignment of engine and alteration once in six month.
3. Vibration measurements once in six month.
4. Safety control simulation test in a year.
5. Health check once in year.
6. Basic Engine parameters.

ii) Air boost pressure (before and after inter cooler)iii) Exhaust temperature.iv) Exhaust back pressure.v) Air restriction.vi) Differential temperature of radiator (raw and engine coolant)vii) Fuel efficiency.viii) load parameters and load factors.1. Testing of lub oil and coolant once in a year.
 |
| 3 | In addition to 12 monthly visits, 6 No’s of break down calls shall be attended in the scope of work. |
| 4 | If any exclusions may be furnished from your end apart from above mentioned works. |
| 5 | Split up of taxes if any shall be mentioned. |

Note: 1) AMC (labour) fees will be paid half yearly after the completion of every six months.

2) B checks spares payment will be made after the supply and replacement to the respective engines.

Copy to : 1. Sri. Chaluvaraju JE( Ele) for information and wide publicity.

 2. To the Principal Library and Information Centre with a request to publish the

 matter in the NIMHANS website.

 3. Notice board Engineering section.

 4. AO (A) with a request to display in your Notice board.

 Sd-

Signature of the agency Executive Engineer

after duly accepting the enquiry NIMHANS, BANGALORE