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| **NAME OR WORK :-** | **ESTABLISHMENT OF 25 BEDED TRAUMA CENTER & CHOLD SERVICES OF SINDH GOVERNMENT GENERAL LYARI TOWN KARACHI (ADP # 584 OF 2016-17)**  **(02 NOS GENERATOR 300 KVA CNG & DIESEL )** |

**“ SCHEDULE ‘B’ “**

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| **S.#** | **DESCRIPTION OF ITEMS** | **QTY:** | **RATE** | **UNIT** | **AMOUNT** |
| 1 | Supply of new and complete stand by CNG & Diesel Generator Set V 300 KVA 240 KW standby capacity and powered by engine of approved make running at 1500 RPM and directly coupled to a single bearing alternator for 0.8 pf, enclosure UP 21, Brushless, Synchronous, self-exited, self-regulated, insulation and temperature class H,230 / 400V, 3 phase, 4 wires regulated at + / -1%, 50Hz with Synch Provision, and with set mounted control panel and complete with   * Heavy duty fabricated steel skid type base frame with anti-vibration mountings, * Set mounted radiator with engine driven blower type fan and protecting guards. * 24 V Electric starting system with starter motor, heavy duty lead acid batteries mounted into a rack and battery charger alternator. * Industrial exhaust silencer. * Exhaust flexible loose supplied and equipped with flanges. * Air fuel and lubricating oil fitters. * Electronic Generator * Automatic engine shutdown protections for:   -Low Lube Oil Pressure.  -High Water Temperature   * Built in Diesel Fuel Tank * One set of instruction manual and electrical wiring diagram. * Control Module, complete with. * Instruments, indicating lights, and * Protections. * Set mounted Manual Circuit Breaker, for alternator protection against overload and short circuit having engines like * Automatic battery charger   1) Volvo engine / SDMO France  2) Perkins.  3) Cater Pillar.  4) Cummins  5) or equivalent. | 02-Nos |  | Each |  |
| 2 | Installation, testing & commissioning 300 KVA Generator Set on C.C. foundation as required in/c the Errection of vibration isolator. The foundation plate of the Generator would be fixed by 1” thick rawal bolt with high tensile strength. The Generator foundation plate and the set would be earthed with the copper Patti of ¾”x1/8” thick in size. The exhaust manifold. would be in thick through flexible joint and isolated by asbestos dori etc complete. | 02-Jobs |  | P/Job |  |
| 3 | P/ Commissioning of Auto main failure control panel made with 16 SWG sheet 5’x3’x2’ in size consisting of 400 Amps MCCB 3 pole (Make Tele mechanic France or Terasaki Japan or equivalent ) Heavy duty magnetic conductor with and auxiliary contact on both sides of the contactors. Timing control circuit, interlocking arrangement Generator supplied panel, volt and ampere selector holding relay heavy magnetic contractor etc. | 02-Jobs |  | P/Job |  |
| 4 | P/ installation Automatic Generators Selection Changeover panel having 2 Nos 400 amps (Make Tele mechanic France or Terasaki Japan or equivalent) magnetic contactor complete with accessories and selector switch. | 02-Nos |  | Each. |  |
| 5 | P/L of PVC cable 4 core 240mm grade 600/1000 volt ((Make Pakistan/ AGE / Pioner or equivalent ) in proper channel in/c excavation to required depth & commissioning in double layer & cover with tile in/c testing connection with the AMF panel & main supplied connection with the lux to lock-up the system for Energisation testing in al respects. | 80 Meters |  | P/Meter |  |
| 6 | P/L of PVC cable Multi core 2.5mm (make Pakistan, Pioneer / AGE or equivalent) in/c testing connection with the AMF panel & main supplied connection with the lux to lockup the system for Energisation testing in all respect. | 40.00 Meters |  | P/Meter |  |
| 7 | Providing of special earthing for generator after the excavation of atleast 25’.0 ft from the ground level or the detention of moisture. The copper plate should be 2’x2’x1/8” in size and buried after mixing of MAOI (sodium chloride) and carbon at the rate of 1:2 the earthing strip should be 3/4" x 1/8” size the copper strip should be in a GI pipe of 1-1/2” dia meter coming from the end of the copper plate. | 02 Nos |  | Each |  |
| 8 | S/ installation of suitable sound reduced and weather proof canopy (Local) of approved make & quality fitted on Generator set.(for 300 KVA Generator) | 02 Nos |  | Each |  |
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**CONDITIONS.**

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| 1 | Price quoted will not be subject to any change due to change of custom rates, Government taxes or foreign exchange rates. |
| 2 | Fee for award of contract at the rate of 0.30% of the value of contract in shape of levies stamp will be realized / charged at the time of award of contract. |
| 3 | Income tax will be deducted from running bill at the rate of 7.50%. |
| 4 | Bidders are requested to mention make and Country of origin in their bid. |
| 5 | One year free service in/c parts, three years service guarantee and availability of spare parts must be confirmed by the bidder. |
| 6 | The job will be completed within 12-months and the Generator will be made operational and smooth running before the end of completion period. |
| 7 | Free demonstration of consignees will be made and shall be responsibility of the firms where necessary. |
| 8 | Time is the essence of the contract and contractor / firm must adhere to the agreed time frame. |
| 9 | Duration of storage due to any major fault (During the warranty period) will not be counted towards warranty time. |
| 10 | All Technical details regarding software testing and instrument control machine / motors and circuits through original changes and literatures shall be submitted by the firms to the client before issuance of completion certificate. |
| 11 | All scaffolding, planks. Ladder and any other items required for testing and commissioning of the Generators is in/c in the scope of work of the firms. |
| 12 | All Civil works in/c new / renovation / dismantling / making good to complete the installation shall be firms, responsibility. |
| 13 | The work involving hammering / drilling and chiseling should be carried out after office hours or holiday. |
| 14 | Inspection of material imported will be made by the Technical committee at the port or at site of work before installation of Generators. |
| 15 | The contractor / firm should provide on technician for maintenance of the Generators continuously throughout warranty period (One year). |
| 16 | The tender shall be quoted on the prescribed schedule to this NIT on the basis indicated therein and shall sign the certificate given therein to the effect that the store shall be supplied exactly in accidence with the requirement specified in the schedule. In case there is any deviation, it should be clearly stated by tenders otherwise it will be presumed that offer is strictly in accordance with the requirement of the tender notice. |
| 17 | In the case of offers of supply of stores both imported and indigenous from within the country price quoted shall be inclusive all taxes, duties and charges for packing making handling etc and sales tax is livable and is included in the price quoted to the tenders. |
| 18 | Tenders should be properly sealed with wax. |
| 19 | The tenders will be accepted alongwith the 2.0% of the quoted amount as earnest money in the from of Bank Draft / Pay order etc. |
| 20 | The work will strictly be carried out as per specifications and terms & condition agreed upon within stipulated time. |

**CONTRACTOR.**

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| **ASSISTANT ENGINEER**  **PROVINCIAL ELECTRICAL SUB-DIVISION-XII**  **KARACHI** | **EXECUTIVE ENGINEER**  **PROVINCIAL BUILDINGS DIVISION-I,**  **KARACHI** |