Name of Work **COMPLETE OVERHAULING OF 4500M/H (25MGD) WEIR SET (D). AT HIGH LIFT PUMP HOUSE AT NEK (P&F) K-II, PLANT.**

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| **Item No.** | **Qty.** | **Description of Item to be**  **Executed at Site** | | **Rate** | | **Unit** | **Amount in Rupees** |
|  | **Amount**  **( in Figures)** | **Amount**  **(in Words)** |
| 1. | 01 Job | Removal of termination & isolate the terminal box from motor, then de-coupled the motor from pump& dismantle the 25mgd pump from foundation & debalting all the parts, re- assemble the pump after engineering services & pump placed & balanced at foundation couple 412 KW motor with pump complete its connection i/c servicing of termination as per direction of engineer in charge. | |  |  | Job |  |
| 2. | 01 Job | Removal of impeller from pump shaft with help of hydraulic pressure machine & oxygene acetylene flame and chemical treatment as per direction of engineer in charge. | |  |  | Job |  |
| 3. | 01 Job | Re-conditioning & balancing of UNIGLIDE type impeller of weir pump by welding of worn out wings used special organ welding with help of kansi electrodes & machining & grinding to bring finished size with out disturbing its original shape & balancing as per sample and as per direction of engineer inn charge. | |  |  | Job |  |
| 4. | 01 Job | Re-fixing of impeller in pump shaft with help of hydraulic pressure machine and balancing with accurate centre. | |  |  | Job |  |
| 5. | 10 KG | Providing 20x20mm Teflon gland packing. | |  |  | Kg |  |
| 6. | 25 KG | | Providing rubber packing gas kit size 4x1/8” thic; 2mm ( PB-49,P.71 IT.06) |  |  | Kg |  |
| 7. | 01 KG | | Providing DADEX jointing solution, made in USA. |  |  | kg |  |
| 8. | 60 Lbs | | Supply of Cotton waste I-120, P-35, PB-48. |  |  | lbs |  |

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| **Item No.** | **Qty.** | **Description of Item to be**  **Executed at Site** | | **Rate** | | | | **Unit** | | **Amount in Rupees** | |
|  | **Amount**  **( in Figures)** | | **Amount**  **(in Words)** | |
| 9. | 04 Meter | | P/F 0.5mm Fiber paper sheet (England Made) having w-1 meter. |  | |  | | Meter | |  | |
| 10. | 1 No. | Providing of bearing # 6318 BCG (SKF) For Pump.  **Detail of Service.**  Vibration Analysis  Dynamic Balancing  Service Fee for Laser Alignment/ Cheeking.  Service Fee for Bearing Mounting/ Dismounting.  Transportation Charges for all equipments.  Weight/ Shims/ Lubricants of SKF up down of SKF Certified engineers for 3 days. | |  |  | | No | |  | |
| 11. | 01 Job. | Removal of Pulley from Pump Shaft with the help of Hydraulic pressure machine & oxygene acetylene flame as per direction of in charge. | |  |  | | Job | |  | |
| 12. | 01 Job. | Repairing & Reconditioning, Polishing of Bearing Houseing having size, 1st 190mm, 2nd 125mm taper, depth 315mm complete in all respect and as per direction of engineer in charge. | |  |  | | Job | |  | |
| 13. | 04 Nos. | Removal of wear Ring and neck ring from the pump casing with the help of hydraulic pressure machine & oxygen acetylene Flame as per direction of engineer in-charge. | |  |  | | No. | |  | |
| 14. | 02 Nos | Manufacturing of wear ring from bronze metal (imported) as per sample and direction of engineer in charge. Size; 1st O.D 560, I.D.524, 2nd OD.532, ID 484 & Thickness 66mm, thickness 18mm. | |  |  | | No. | |  | |
| 15. | 04 Nos | Fixing of bronze made neck & wear ring  Size of wear ring, W-66mm, thickness 25mm, O.D, 530mm, I.D, 505mm,  Size of Neck Ring W-66mm, 1st O.D, 560mm, 1st I.D 524mm, 2nf O.D, 532mm, 2nd I.D, 484mm thickness 18mm. | |  |  | | No. | |  | |

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| **Item No.** | | **Qty.** | **Description of Item to be**  **Executed at Site** | **Rate** | | | **Unit** | | **Amount in Rupees** | |
|  | **Amount**  **( in Figures)** | **Amount**  **(in Words)** | |
| 16. |  | | Fixing of bronze made sleeve upper side in pump shaft having size L1, 192mm, O.D, 140mm, I.D,85mm, L2, 361mm, O.D,125mm, I.D 85mm, fix with the help of Hydraulic pressure machine & oxygen acetylene flame as per direction of engineer in charge. |  |  | B/F | |  | |
| 17. | 01 Nos. | | Removal of bronze made sleeve upper side with the help of Hydraulic pressure machine & oxygen acetylene Flame as per direction of engineer in charge. |  |  | No. | |  | |
| 18, | 02 Nos. | | Manufacturing of neck Ring with bronze metal (Imported) as per sample & direction of Engineer in charge, Size; OD 530mm, I D 505mm, Thickness 25mm, W – 66mm. |  |  | No. | |  | |
| 19. | 01 Nos. | | Removal of bronze made sleeve lower side with the help of hydraulic pressure machine & oxygen acetylene flame as per direction of engineer in charge. |  |  | No. | |  | |
| 20. | 01 Nos. | | Fixing of bronze made sleeve lower side in pump shaft having size L1, 192mm, O.D, 140mm I.D, 85mm, L2, 361mm, O.D, 125mm, I.D, 85mm, fix with the help of hydraulic pressure machine & oxygen acetylene Flame as per direction of engineer in charge. |  |  | No. | |  | |
| 21. | 02 Nos. | | Manufacturing of Pully caller type from Bronze metal (Imported) having size; L-175mm, O D 175mm, I D 150mm, Caller 10mm, as per ample and direction of engineer in charge. |  |  | No. | |  | |
| 22. | 01 Nos. | | Removal of bronze made bush from shaft with the help of Hydraulic pressure machine & oxygen acetylene Flame as per direction of engineer in charge. |  |  | No. | |  | |
| 23. | 02 Nos. | | Manufacturing of Shaft Bush from bronze metal (Imported) as per sample & direction of Engineer in charge. L-1. 192mm, O D 140mm, ID 85mm, L-2 361mm, O D 125mm, ID 85mm. |  |  | No. | |  | |

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| **Item No.** | | **Qty.** | **Description of Item to be**  **Executed at Site** | **Rate** | | | | | | **Unit** | | **Amount in Rupees** | |
|  | **Amount**  **( in Figures)** | | **Amount**  **(in Words)** | | | |
| 24. | 85 Kg. | | Providing Nuts & Bolts i/c Plain & Spring washers. ( PB-49, P.71 IT.05) |  | |  | | | Kg | |  | |
| 25. | 01 Nos. | | Fixing of bronze made bush in pump shaft with the help of Hydraulic pressure machine & oxygen actylene Flame, size of bush L-134mm, 140mm with 10mm coller 2nd 125mm, as per direction of engineer in charge. |  | |  | | | No. | |  | |
| 26. | 01 Nos. | | Removal of rubber bearing (spider bush) from shaft with help of hydraulic pressure machine & oxygen acetylene Flame as per direction of engineer in charge. | |  | |  | No. | | |  | |
| 27. | 01 Nos. | | Manufacturing of spider bush Rubber bearing with bronze body re-enforces with neuprem rubber as per sample, L-130mm, O.D.150mm I.D.115mm, as per direction of engineer in charge. | |  | |  | No. | | |  | |
| 28. | 01 Nos. | | Fixing of rubber bearing (spider bush) on lower saleev with the helpe of hydraulic pressure machine. | |  | |  | No. | | |  | |
| 29. | 01 Job. | | Local Manufacturing of Shaft protecting sleeve made by high class carbon alloy steel (imported) for 85mm dia solid shaft saleev, Fix on shaft size L-305mm, O.D. 114mm, I.D. 85mm with the help of hydraulic pressure machine after Removing worn out sleeve, complete in all respect and as per direction of engineer in charge. | |  | |  | Job | | |  | |
|  |  | |  | |  | | TOTAL | RS. | | |  | |

Resident Engineer

N.E.K (P&F) K-II, III

KW&SB

I/We hereby Quoted Rs..\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Rupees

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Execution of above work and I / We hereby undertaking accept

All clauses of SPPR-2010 and comply the Rules of KW&SB.

Signature of Contractor

With name of firm & Seal

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Contact # \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name of Work **REPAIRING & RECONDITIONING MAINTENANCE OF NON RETURN VALVE 1000MM DIA OF PUMP SET “C” AT LOW LIFT PUMP HOUSE N.E.K (P&F) K-II PLANT.**

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| **Item No.** | **Qty.** | **Description of Item to be**  **Executed at Site** | **Rate** | | **Unit** | **Amount in Rupees** |
|  | **Amount**  **( in Figures)** | **Amount**  **(in Words)** |
| 1. | 02 Nos | Local Mfg. of valve pin from S.S solid shaft having dia 152mm length 482mm making coller having dia 133mm length 30mm other step cutting having dia 120mm, length 310mm, and last step cutting dia 108mm length 120mm making case harding on furnauce m/L as per direction of engineer incharge. |  |  | Each |  |
| 2. | 01 Job | Providing & fixing of shutter disc seat from bronze metal by casting having finished size outer 1225mm dia & inner dia 1210mm width 50mm i/c making inside “V” shape thread length 50mm as per direction of engineer incharge. |  |  | Job |  |
| 3. | 01 Job. | Providing and fixing valve body seat frame bronze metal by casting having finished size outer dia 1250mm inner dia 1185mm width 100mm i/c making “V” shape thread for fixing the seat on valve body and as per direction of engineer incharge. |  |  | Job |  |
| 4. | 02 Job | Mfg. & Fixing of pin guide cover from MS rod having dia 220mm width 65mm making under cut from one side 140mm dia width 5mm other step cutting 63mm dia width 25mm i/c making hole 8 Nos. i/c having dia 19mm making greasing point as per direction E/Incharge. |  |  | Job |  |
| 5. | One Unit | Mfg. and Fixing in valve body cermic seal (imported) having cross sectional dia 10mm, outer dia 1320mm as per direction of E/Incharge. |  |  | Each |  |
| 6. | 73 Kg. | Supply & Fixing assorted size stain less steel Nuts, Bolts & Washer (Pg=71, It=4, PB = 49). |  |  | Kg. |  |
| 7. | 04 Meter | Providing & Fixing of Oil Paper |  |  | meter |  |

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| --- | --- | --- | --- | --- | --- | --- |
| 8. | 01 Job | Assembling of Non return valve after complete satisfactory repair of valve disc valve pin body at proper place i/c application of anti corrosive coating and sea paint as per direction of Engineer Incharge. |  |  | Job |  |
|  |  |  |  | **TOTAL** | **Rs.** |  |

Resident Engineer

N.E.K (P&F) K-II, III

KW&SB

I/We hereby Quoted Rs..\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Rupees

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Execution of above work and I / We hereby undertaking accept

All clauses of SPPR-2010 and comply the Rules of KW&SB.

Signature of Contractor

With name of firm & Seal

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Contact # \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name of Work **REPAIRING & RECONDITIONING MAINTENANCE OF NON RETURN VALVE 800MM DIA OF PUMP SET “D” AT HIGH LIFT PUMP HOUSE N.E.K (P&F) K-II PLANT.**

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| **Item No.** | **Qty.** | **Description of Item to be**  **Executed at Site** | **Rate** | | **Unit** | **Amount in Rupees** |
|  | **Amount**  **( in Figures)** | **Amount**  **(in Words)** |
| 1. | 01 Job | Repair & Reconditioning of shutters valve disc both side of pin guide hole by method of re-filling cost iron X-ray welding the hole about 6” dia and length 5” i/c making line bore x-axis on line bore m/I having dia 100mm, length 3.5” as per direction of E/Incharge. |  |  | Job |  |
| 2. | 01 Job | Providing & fixing of shutter disc seat from bronze metal by casting having finished size outer 1175mm dia & inner dia 800mm width 50mm i/c making inside “V” shape thread length 50mm as per direction of engineer incharge. |  |  | Job |  |
| 3. | 01 Job. | Providing and fixing valve body seat frame bronze metal by casting having finished size outer dia 1050mm inner dia 985mm width 100mm i/c making “V” shape thread for fixing the seat on valve body and as per direction of engineer incharge. |  |  | Job |  |
| 4. | 02 Job | Mfg. & Fixing of pin guide cover from MS rod having dia 220mm width 65mm making under cut from one side 140mm dia width 5mm other step cutting 63mm dia width 25mm i/c making hole 8 Nos. i/c having dia 19mm making greasing point as per direction E/Incharge. |  |  | Job |  |
| 5. | One Unit | Mfg. and Fixing in valve body cermic seal (imported) having cross sectional dia 10mm, outer dia 1320mm as per direction of E/Incharge. |  |  | Each |  |
| 6. | 73 Kg. | Providing & Fixing assorted size stain less steel Nuts, Bolts & Washer (Pg=71, I-4, PB - 49). |  |  | Kg. |  |
| 7. | 04 Meter | Providing & Fixing of Oil Paper |  |  | meter |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 8. | 01 Job | Assembling of Non return valve after complete satisfactory repair of valve disc valve pin body at proper place i/c application of anti corrosive coating and sea paint as per direction of Engineer Incharge. |  |  | Job |  |
|  |  |  |  | **TOTAL** | **Rs.** |  |

Resident Engineer

N.E.K (P&F) K-II, III

KW&SB

I/We hereby Quoted Rs..\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Rupees

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Execution of above work and I / We hereby undertaking accept

All clauses of SPPR-2010 and comply the Rules of KW&SB.

Signature of Contractor

With name of firm & Seal

Address\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Contact # \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name of Work **EMERGENT ENGINEERING SERVICES OF NON RETURN VALVE 800MM DIA OF PUMP SET NO. “E” AT HIGH LIFT PUMP HOUSE N.E.K (P&F) K-II PLANT.**

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| **Item No.** | **Qty.** | **Description of Item to be**  **Executed at Site** | **Rate** | | **Unit** | **Amount in Rupees** |
|  | **Amount**  **( in Figures)** | **Amount**  **(in Words)** |
| 1. | 01 Job | Complete dismantling of valve shutters disc pin both side of shutter dic, shutter disc & valve body seat bronze etc. |  |  | Job |  |
| 2. | 01 Job | Repair & re-conditioning of shutters valve disc complete front & back side by method of sand blasting process i/c making “V” shape thread as disc conner for fixing the disc seating ring having dia 1000mm length 25mm with special holding attachment i/c anti corrosion sea paint side of disc two coat as per direction of E/Incharge. |  |  | Job |  |
| 3. | 02 Nos. | Local Mfg. of valve pin from S.S solid shaft having dia 140mm length 465mm making coller having dia 133mm length 30mm other step cutting having dia 120mm, length 310mm, and last step cutting dia 108mm length 120mm making case harding on furnauce m/L as per direction of engineer incharge. |  |  | Job |  |
| 4. | 02 Job | Repair & reconditioning of valve body both pin guide hole by method of re-filling ovel shape (damaged hole) cost iron x-ray welding about 6” dia and length 6” i/c making hole both pin guide at same exis with out disturbing of disalligment having dia 125mm length 25mm & othe dia 107mm length 6” i/c sand blasting from inside the above body having with 800mm dia i/c making anticorrosive sea paint inside the valve as per direction of incharge. |  |  | Job |  |
|  |  |  |  | **TOTAL** | **Rs.** |  |

Resident Engineer

N.E.K (P&F) K-II, III

KW&SB

I/We hereby Quoted Rs..\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Rupees

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Execution of above work and I / We hereby undertaking accept

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Signature of Contractor

With name of firm & Seal

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Contact # \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name of Work **COMPLETE OVERHAULING OF 2008.8 M3/H (WEIR PUMP) # B&C I/C SERVICING OF ELECTRIC MOTOR & PANEL INSTALLED AT HIGH LIFT PUMP HOUSE NEK (P&F), K-II PLANT.**

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| **Item No.** | **Qty.** | **Description of Item to be**  **Executed at Site** | **Rate** | | **Unit** | **Amount in Rupees** |
|  | **Amount**  **( in Figures)** | **Amount**  **(in Words)** |
| 1. | 02 Job | Removal of Termination and terminal box and isolated the 60 KW Electric Motor from the Pump remove from base then dismantle the pump from foundation and de-bolting the equipment removal of column pipe 18” dia 3 Nos. then re-assembling the pump after engineering servicing complete its termination after servicing & fixing of terminal box complete in all respect and as per direction of Engineer Incharge. |  |  | Job |  |
| 2. | 02 Job | Removal of impeller from shaft with help of hydraulic pressure machine & oxygen acetylene Flame as per direction of Engineer Incharge |  |  | Job |  |
| 3. | 02 Nos. | Re-conditioning & balancing of UNIGLIDE type impeller pump 18” dia by welding of worn out wings used special organ welding with help of kansi electrodes & machining & grinding to bring finished size with out disturbing its original shape & balancing as per sample and as per direction of Engineer Incharge. |  |  | Job |  |
| 4. | 02 Job | Re-fixing of impeller in pump shaft with the help of hydraulic pressure machine (heavy duty) & balancing with accurate center as per direction of E/Incharge. |  |  | Job |  |
| 5. | 04 Nos. | Manufacturing & providing S.S. Saleeve as per sample size 50x40x100mm direction of E/Incharge. |  |  | Each |  |
| 6. | 02 Nos. | Manufacturing & providing S.S. Saleeve as per sample size 50x40x140mm direction of E/Incharge. |  |  | Each |  |
| 7. | 02 Nos. | Manufacturing & providing S.S. Saleeve as per sample size 50x40x175mm direction of E/Incharge. |  |  | Each |  |
| 8. | 04 Nos. | Manufacturing & providing S.S. Saleeve as per sample size 100x40x200mm direction of E/Incharge. |  |  | Each |  |
| 9. | 12 Nos. | Removal of saleeve with the help of hydraulic pressure machine (heavy duty) & acetylene flame as per direction of E/Incharge. |  |  | Each |  |
| 10. | 12 Nos. | Fixing of sleeve in pump shaft by heat engineering process as per direction E/Incharge. |  |  | Each |  |
| 11. | 08 Nos. | Manufacturing & providing M. lock key as per sample 150x20x12mm as direction E/Incharge. |  |  | Each |  |

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| 12. | 02 Nos. | Manufacturing & providing spider bush Rubber bearing with gun metal steel body re-enforced with neuprem rubber as per sample as per direction of E/Incharge size 75x55x100mm. |  |  | Each |  |
| 13. | 04 Nos. | Manufacturing & providing spider bush rubber bearing with gun metal steel body re-enforced with neuprem rubber as per sample as per direction of E/Incharge size 75x55x80. |  |  | Each |  |
| 14. | 06 Nos. | Removal of rubber bearing (spider bush) from housing with the help of hydraulic pressure machine(heavy duty) & acetylene flame as per direction E/Incharge. |  |  | Each |  |
| 15. | 06 Nos. | Fixing of rubber bearing (spider bush) in housing by heat engineering process as per direction of E/Incharge. |  |  | Each |  |
| 16. | 06 Nos. | Manufacturing & providing of studs as per sample as per direction of E/Incharge. |  |  | Each |  |
| 17. | 02 Nos. | Manufacturing of S.S Neck ring having size 240x20x33mm for weir pumps as per sample direction of E/Incharge. |  |  | Each |  |
| 18. | 02 Job | Removal of S.S. Neck ring from defuser housing with the help of hydraulic pressure machine. |  |  | Job |  |
| 19. | 02 Job | Fixing of S.S Neck ring in the defuser housing by heat engineering process. |  |  | Job |  |
| 20. | 10 Kg | Providing 12x12mm Teflon gland pakcing. |  |  | Kg |  |
| 21. | 30 Kg | Providing rubber flange gas kit size 4x1/8” (Pb-49, Ph-71, Itm-06) |  |  | Kg |  |
| 22. | 06 Meter | Providing 0.5mm Fiber Paper sheet (imported)having width = 1 Meter |  |  | Meter |  |
| 23. | 200 Pounds | Providing Cotton west (Pb-48, Ph-35, Itm-120) |  |  | Pound |  |
| 24. | 100 Kg | Providing Nuts & Bolts i/c Plain & Spring Washer (Pb-49, Ph-71, Itm-05). |  |  | Kg |  |
| 25. | 02 Kg | Providing USA made dedex jointing solution. |  |  | Kg |  |
| 26. | 02 Job | Over hauling of 60 KW vertical houlow shaft Electric Motor.  **Scope of Work as Under:-**  \* Initial testing and dismentalling of Motor.  \* Washing / Cleaning of winding with Special cleaning agent (CTC)  \* Drying Winding at 110 C temperature  \*Testing of winding before impegranatain  \*Impregnatain of winding with class “F” warmish insulation and drying.  \*Complete checking & balancing of rotor after decabonise.  \*Static testing and painting of complete motor  \*Witness testing as Site. |  |  | Job |  |

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| **Item No.** | **Qty.** | **Description of Item to be**  **Executed at Site** | **Rate** | | **Unit** | **Amount in Rupees** |
|  | **Amount**  **( in Figures)** | **Amount**  **(in Words)** |
| 27. | 02 Nos  02 Job  02 Job  02 Job | Providing of bearing # 6318 BCG (SKF)  **Detail of Service**  Service fee for bearing mounting / dismounting.  Transportation charges of all equipments.  Weigh/Shims/Lubricants of SKF |  |  | Each  Job  Job  Job |  |
| 28. | 03 Jobs | Servicing of electric panel for operating 60 KW electric motor decontamination of bus bar including replacement of over heated bus bar lugs nuts & bolts etc (one incoming + 2 out going panel) |  |  | Job |  |

Resident Engineer

N.E.K (P&F) K-II, III

KW&SB

I/We hereby Quoted Rs..\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Rupees

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Execution of above work and I / We hereby undertaking accept

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Signature of Contractor

With name of firm & Seal

Address\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Contact # \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_