

NEPAL ELECTRICITY AUTHORITY

(An Undertaking of Government of Nepal)
(Project Management Directorate)



DISASTER RECOVERY CENTRE PROJECT

BIDDING DOCUMENT FOR

**Design, Supply, Installation and Commissioning of Disaster Recovery Centre (DRC),
Private Cloud Infrastructure and Data Centre Interconnect (DCI)
(Procurement of Plant)**

**Single-Stage, Two-Envelope
Bidding Procedure**

| | |
|---------------------------------|---|
| Issued on: | 09 May 2025 |
| Invitation for Bids No.: | PMD/DLSD/ETDSP/DRCP-081/82 – 01 |
| OCB No.: | PMD/DLSD/ETDSP/DRCP –081/82 - 01 |
| Employer: | Nepal Electricity Authority |
| Country: | Nepal |

VOLUME –III OF III

**Disaster Recovery Centre Project
Project Management Directorate
Syuchataar, Kathmandu, Nepal**

Telephone:

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PRICE SCHEDULE

Note:

- 1) Bidder is required to quote prices in this Schedule for all the individual items/sub-items.
- 2) The Prices of equipment are inclusive of type test charges.
- 3) BOQ given is indicative only based on the scope of work as given in Employer's Requirements. The quantities mentioned above may undergo change during detailed engineering to meet the functional requirement and scope of work defined in Employer's Requirements. The Contractor shall prepare and submit the final BOQ within 30 days of signing of Contract.
- 4) Bidder shall quote the rates excluding taxes and duties applicable in Nepal like Custom, VAT etc, but shall include all taxes, duties outside Nepal and any applicable business, income taxes in Nepal like TDS etc.

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FC: Foreign Currency

Schedule No.1(a): Plant and Equipment including Mandatory Spares to be supplied from abroad

LC: Local Currency

| Item No. | Item description | Country of origin | Estimated | | CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal) | | | Total Amount (Excluding Taxes and Duties) |
|----------|--|-------------------|-----------|----------|--|-----------|---------------|---|
| | | | Unit | Quantity | FC | | | FC |
| | | | | | Currency # | Unit Rate | Amount | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 = (7) X (5) | 9=8 |
| | IT CLOUD INFRA - DC | | | | | | | |
| I | (Hardware and Software) Cost at Data Centre | | | | | | | |
| 1 | Software License - IT Component | | | | | | | |
| a | Private Cloud Orchestrator Solution | | Set | 1 | | | | |
| b | Virtualization Software - Day1 | | Set | 1 | | | | |
| 2 | Software License - Basic | | | | | | | |
| a | Server OS License (For all the proposed virtual Machines- Windows and Linux) - Day 1 | | Set | 1 | | | | |
| | Sub-total Software license – Applications (A) | | | | | | | |
| II | Hardware/ Equipment | | | | | | | |
| 1 | Server Hardware | | | | | | | |
| a | Compute Nodes (Total usable cores – 1008 Cores) | | Set | 1 | | | | |
| d | Server Load balancer | | Set | 2 | | | | |
| 2 | Storage & Backup System | | | | | | | |
| a | Enterprise storage (1024 TB) | | Set | 1 | | | | |
| 3 | Switches | | | | | | | |



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| | | | | | | | | |
|---|---|--|-----|-----|--|--|--|--|
| a | Management Switch | | No. | 2 | | | | |
| b | Spine Switches | | No. | 2 | | | | |
| c | Leaf Switches Type -1 | | No. | 2 | | | | |
| d | Leaf Switches Type -2 | | No. | 2 | | | | |
| e | Leaf Switches Type -3 | | No. | 2 | | | | |
| 4 | Security Solutions | | | | | | | |
| a | Firewall | | No. | 2 | | | | |
| b | EDR for Servers (For windows + Linux) | | No. | 100 | | | | |
| c | Identity and access management with SSO for users | | No. | 500 | | | | |
| d | Privilege access management solution for users | | No. | 50 | | | | |
| e | DNS Security Solutions | | No. | 1 | | | | |
| f | Vulnerability assessment and detection response (for 300 IP devices) | | No. | 1 | | | | |
| 5 | Cabling System | | | | | | | |
| a | CAT6 Cable, Patch cord, Jacks etc. | | Lot | 1 | | | | |
| b | Fiber Optical Cable, Connectors, Patch Cord etc. | | Lot | 1 | | | | |
| | | | | | | | | |
| | Sub Total Hardware (B) | | | | | | | |
| | | | | | | | | |
| | NEA DRC and Cloud for DC – DRC [(Software (A)+ Hardware (B)) (Total of column 9 to be carried forward to Schedule 5: Grand Summary)] | | | | | | | |

Note:

1. The bidder is required to quote prices in this schedule for all items listed in Schedule 1(a) & 1(b) that they intend to supply from abroad.
2. The Prices of Equipments are inclusive of type test charges
3. Bidder may quote quantities of line items based on their sizing and proposed solution.
4. All the data provided in the above table represents the bare minimum requirements. Any additional elements necessary to successfully implement the complete solution must be considered in the price bid and provided by the bidder.

Date:

Signature:



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Distribution Line and Substation Department

Disaster Recovery Centre Project

Printed Name:

Designation:

Common Seal:

Schedule No.1(b): Equipment including Mandatory Spares to be supplied

from abroad

FC: Foreign Currency

LC: Local Currency

| Item No. | Item description | Country of origin | Estimated | | CIP Project Site including insurance, clearing, forwarding and transportation to site (Excluding Taxes and Duties applicable in Nepal) | | | Total Amount (Excluding Taxes and Duties) |
|----------|--|-------------------|-----------|----------|--|-----------|--------|---|
| | | | Unit | Quantity | FC | | | FC |
| | | | | | Currency# | Unit Rate | Amount | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9=8 |
| 1 | IT CLOUD INFRA - DRC | | | | | | | |
| I | (Hardware+Software) Cost at Disaster Recovery Center | | | | | | | |
| 1 | Software License - IT Component | | | | | | | |
| a | Private Cloud Orchestrator Solution | | Set | 1 | | | | |
| b | Virtualization Software | | Set | 1 | | | | |
| 2 | Software License - Basic | | | | | | | |
| a | Server OS License (For all the proposed virtual Machines- Windows and Linux) | | Set | 1 | | | | |
| | Sub-total Software license – Applications (A) | | | | | | | |
| II | Hardware/ Equipment | | | | | | | |
| 1 | Server Hardware | | | | | | | |
| a | Compute Nodes (Total usable cores – 504 Cores) | | Set | 1 | | | | |
| d | Server Load balancer | | Set | 2 | | | | |



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| | | | | | | | | |
|---|--|--|-----|----|--|--|--|--|
| 2 | Storage & Backup System | | | | | | | |
| a | Enterprise storage (1024 TB) | | Set | 1 | | | | |
| 3 | Switches | | | | | | | |
| a | Management Switch | | No. | 2 | | | | |
| b | Spine Switches | | No. | 2 | | | | |
| c | Leaf Switches Type -1 | | No. | 2 | | | | |
| d | Leaf Switches Type -2 | | No. | 2 | | | | |
| e | Leaf Switches Type -3 | | No. | 2 | | | | |
| 4 | Security Solutions | | | | | | | |
| a | Firewall | | No. | 2 | | | | |
| b | EDR for Servers (For windows + Linux) | | No. | 50 | | | | |
| c | Identity and access management with SSO for users | | No. | 0 | | | | |
| d | Privilege access management solution for users | | No. | 0 | | | | |
| e | DNS Security Solutions | | No. | 1 | | | | |
| f | Vulnerability assessment and detection response (for 150 IP devices) | | No. | 1 | | | | |
| 5 | Cabling System | | | | | | | |
| a | CAT6 Cable, Patch cord, Jacks etc. | | Lot | 1 | | | | |
| b | Fiber Optical Cable, Connectors, Patch Cord etc. | | Lot | 1 | | | | |
| 6 | DC-DRC Optical Connectivity Solutions | | | | | | | |
| a | DWDM with multiplexer and demultiplexer (Complete solution) | | Set | 4 | | | | |
| b | Communication cards | | Set | 4 | | | | |
| c | Communication ports | | Set | 4 | | | | |
| d | Fiber Optical Cable Maintenance Connectors, Patch Cord etc. | | LS | 1 | | | | |
| | | | | | | | | |
| 7 | Display and Workstation | | | | | | | |



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| | | | | | | | | |
|----------|--|--|-----|---|--|--|--|--|
| a | NOC Room: UHD (3840 x 2160) LED Display of minimum 75" Diagonal with complete with wall mount stand, management software and workstation | | Set | 1 | | | | |
| b | BMS Room: UHD (3840 x 2160) LED Display of minimum 75" Diagonal with complete with wall mount stand, management software and workstation | | Set | 1 | | | | |
| | Sub-total Hardware (B) | | | | | | | |
| | CIVIL INFRA - DRC | | | | | | | |
| 8 | Supply of DRC Building, Supply and Delivery (DRC Area and Other Area) | | | | | | | |
| a | Prefabricated Modular type DRC building, 2 storied complete with all accessories for full functioning of the scope of work with minimum requirement as specified. (Scalable up to 3rd floor) (Including server farm area (1765 Sqft), NOC area (265 Sqft), Equipment area (200 Sqft), BMS area (210 Sqft), Power Room area (850 Sqft), Meeting Room (260 Sqft), Cabin Area (220 qft), Corridor area (190 Sqft), Reception area (650 Sqft), Rest room area (165 Sqft) | | LS | 1 | | | | |
| | | | | | | | | |
| b | 2-ton capacity lift 2 floors all complete (scalable upto 3rd Floor) | | Set | 1 | | | | |
| | | | | | | | | |
| 9 | Outdoor Power Equipment | | | | | | | |
| a | 11/0.400 kV, 1500 kVA Transformer | | Nos | 2 | | | | |
| b | 11 kV RMU (3-Way (CVV), 11KV, Gas (SF6) Insulated RMU with 1 Nos 630A load break switch and 2 Nos. 630 A SF6 Insulated VCB) | | Nos | 1 | | | | |
| c | 400 kV, 1500 kVA Diesel Generators | | Nos | 2 | | | | |
| d | 11kV HT XLPE Power Cables (approx. 300 mtr. x 2 Run) | | LS | 1 | | | | |
| e | 400 V LT Power Cables | | LS | 1 | | | | |
| f | Earthing for Transformer, DG, RMU & LA | | LS | 1 | | | | |



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| | | | | | | | | |
|-----------|---|--|-----|---|--|--|--|--|
| g | Lightning Arrestor | | Nos | 1 | | | | |
| | | | | | | | | |
| 10 | Indoor Power and Equipment | | | | | | | |
| a | Power Panels (ATS+UPS) | | Set | 1 | | | | |
| b | Fire Fighting and Fire Separation System | | Set | 1 | | | | |
| c | UPS Set (N+N) [600 kVA (scalable to 600 kVA) + 125 kVA] | | Set | 1 | | | | |
| d | Equipment and Building Earthing | | LS | 1 | | | | |
| e | Cooling Solution for building | | Set | 1 | | | | |
| f | Cooling Solution for Server Room | | Set | 1 | | | | |
| g | Ventilation Solution for building | | Set | 1 | | | | |
| h | Other Systems mentioned in the Tender Documents | | LS | 1 | | | | |
| i | Other Systems not mentioned in the Tender Documents but necessary to run the Complete Solution | | LS | 1 | | | | |
| | | | | | | | | |
| | Sub Total Civil Infra (C) | | | | | | | |
| | | | | | | | | |
| | Total For Software(A) + Hardware (B) + Civil Infra (C) – DR (Total of column 9 to be carried forward to Schedule 5: Grand Summary) | | | | | | | |

Note:

1. The bidder is required to quote prices in this schedule for all items listed in Schedule 1(a) & 1(b) that they intend to supply from abroad.
2. The Prices of Equipment are inclusive of type test charges
3. Bidder may quote quantities of line items based on their sizing and proposed solution.
4. All the data provided in the above table represents the bare minimum requirements. Any additional elements necessary to successfully implement the complete solution must be considered in the price bid and provided by the bidder.

Date:

Signature:

Printed Name:

Designation:

Common Seal:



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LC: Local Currency
(ALL Price in Local
Currency)

Schedule No.2: Equipment including Mandatory Spares Parts
to be supplied within Nepal

| Item No. | Item description | Unit | Quantity | Ex-Factory Price (Excluding VAT) in LC | | Inland transportation to site in LC | | Total Amount (Excluding Taxes) | Custom, VAT and other taxes |
|---|------------------|------|----------|--|---------------|---|----------------|--------------------------------------|-----------------------------------|
| | | | | Unit Rate | Amount | Unit Rate | Amount | | |
| 1 | 2 | 3 | 4 | 5 | 6 = (4) x (5) | 7 | 8 = (4)x(7) | 9=6+8 | 10 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Total for Schedule 2 (Total of column 9 to be carried forward to Schedule 5: Grand Summary) | | | | | | | | | |

Note:

1. The bidder is required to quote prices in this schedule for all items listed in Schedule 1 that they intend to supply from within Nepal.
 2. The Prices of equipment's are inclusive of type test charges.
 3. Strike-out whichever is not applicable.
- (a) Column 5 Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the



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manufacture or assembly of the item or the customs duties and sales and other taxes already paid on previously imported items.)

Date:

Signature:

Printed Name:

Designation:

Common Seal:

Schedule - 3: Design Services

| Item No. | Item Description | Estimated | | Unit Prices | | NPR | USD (\$) |
|----------|---|-----------|------|------------------------|--------------------------|-----------|----------|
| | | | | Local Currency Portion | Foreign Currency Portion | | |
| | | Quantity | Unit | NRs | Currency | LC | FC |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 = 3 x 5 | 8=3x6 |
| 1 | Integration of Cloud with Existing Nea Legacy Infrastructure | 1 | LS | | | | |
| 2 | Integration between DC and DR | 1 | LS | | | | |
| 3 | DRC Civil Build including Power, Cooling etc.... Solutions | 1 | LS | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| | Total of Schedule 3 (Total of column 7 and 8 to be carried forward to Schedule No. 5: Grand Summary) | | | | | | |

Note: 1. Bidder may quote additional Design Items in Item No. 4,5,6 & 7 based on their sizing and proposed solution.

Date:

Signature:

Printed Name:

Designation:



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Common Seal:

Schedule No. 4: Installation and Other Services
(1)(a): Installation and Construction Charges at DC

| Item No. | Item description | | | Estimated | | Installation and construction Charges | | | | |
|-----------|--|-------------------|--------------------|-----------|----------|---------------------------------------|-----------|---------------|---------------------------------------|--------------|
| | | Country of origin | Type & Designation | Unit | Quantity | Portion In Foreign Currency | | | Portion In Nepalese Currency (In NPR) | |
| | | | | | | Currency | Unit Rate | Total Charge | Unit Rate | Total Charge |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | 9 = (8) x (6) | (10) | 11=10X6 |
| | IT CLOUD INFRA - DC | | | | | | | | | |
| I | (Hardware+Software) Cost at Data Center | | | | | | | | | |
| 1 | Software License - IT Component | | | | | | | | | |
| a | Private Cloud Orchestrator Solution – Day1 | | | Set | 1 | | | | | |
| b | Virtualization Software | | | Set | 1 | | | | | |
| 2 | Software License - Basic | | | | | | | | | |
| a | Server OS License (For all the proposed virtual Machines- Windows and Linux) | | | Set | 1 | | | | | |
| | Sub-total Software license – Applications (A) | | | | | | | | | |
| II | Hardware/ Equipment | | | | | | | | | |
| 1 | Server Hardware | | | | | | | | | |
| a | Compute Nodes (Total usable cores - 1008 Cores) | | | Set | 1 | | | | | |
| d | Server Load balancer | | | Set | 2 | | | | | |
| 2 | Storage & Backup System | | | | | | | | | |



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| | | | | | | | | | | |
|---|--|--|--|-----|-----|--|--|--|--|--|
| a | Enterprise storage (1024 TB) | | | Set | 1 | | | | | |
| 3 | Switches | | | | | | | | | |
| a | Management Switch | | | No. | 2 | | | | | |
| b | Spine Switches | | | No. | 2 | | | | | |
| c | Leaf Switches Type -1 | | | No. | 6 | | | | | |
| d | Leaf Switches Type -2 | | | No. | 2 | | | | | |
| e | Leaf Switches Type -3 | | | No. | 2 | | | | | |
| 4 | Security Solutions | | | | | | | | | |
| a | Firewall | | | No. | 2 | | | | | |
| b | EDR for Servers (For windows + Linux) | | | No. | 100 | | | | | |
| c | Identity and access management with SSO for users | | | No. | 500 | | | | | |
| d | Privilege access management solution for users | | | No. | 50 | | | | | |
| e | DNS Security Solutions | | | No. | 1 | | | | | |
| f | Vulnerability assessment and detection response (for 300 IP devices) | | | No. | 1 | | | | | |
| 5 | Cabling System | | | | | | | | | |
| a | CAT6 Cable, Patch cord, Jacks etc. | | | Lot | 1 | | | | | |
| b | Fiber Optical Cable, Connectors, Patch Cord etc. | | | Lot | 1 | | | | | |
| | | | | | | | | | | |
| | Sub Total Hardware Installation Charges (B) | | | | | | | | | |
| | | | | | | | | | | |
| | Total Installation and Construction charges for Hardware (A) + Software (B) (Total of column 9 and 11 to be carried forward to Schedule No. 5: Grand Summary) | | | | | | | | | |

Note: 1. Bidder may quote quantities of line items based on their sizing and proposed solution.



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2. The above-mentioned requirements are the minimum requirements. Any components or equipment not listed in the BOQ but required for the complete solution will be provided by the bidder at no additional cost.

Date:

Signature:
Printed Name:
Designation:
Common Seal:

Schedule No. 4: Installation and Other Services (1)(b): Installation and Construction Charges at DRC

| Item No. | Item description | Installation Charge | | | | | | | | |
|-----------|--|---------------------|--------------------|------|----------|-----------------------------|-----------|---------------|---------------------------------------|--------------|
| | | Country of origin | Type & Designation | Unit | Quantity | Portion In Foreign Currency | | | Portion In Nepalese Currency (In NPR) | |
| | | | | | | Currency | Unit Rate | Total Charge | Unit Rate | Total Charge |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | 9 = (8) x (6) | (10) | 11=10X6 |
| | IT CLOUD INFRA - DRC | | | | | | | | | |
| I | Hardware and Software Cost at Disaster Recovery Centre | | | | | | | | | |
| 1 | Software License - IT Component | | | | | | | | | |
| a | Private Cloud Orchestrator Solution | | | Set | 1 | | | | | |
| b | Virtualization Software | | | Set | 1 | | | | | |
| 2 | Software License - Basic | | | | | | | | | |
| a | Server OS License (For all the proposed virtual Machines- Windows and Linux) | | | Set | 1 | | | | | |
| | Sub-total Software license – Applications (A) | | | | | | | | | |
| II | Hardware/ Equipment | | | | | | | | | |
| 1 | Server Hardware | | | | | | | | | |
| a | Compute Nodes (Total usable cores - 504 Cores) | | | Set | 1 | | | | | |
| d | Server Load balancer | | | Set | 2 | | | | | |



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| | | | | | | | | | | |
|---|--|--|--|------|----|--|--|--|--|--|
| 2 | Storage & Backup System | | | | | | | | | |
| a | Enterprise storage (1024 TB) | | | Set | 1 | | | | | |
| 3 | Switches | | | | | | | | | |
| a | Management Switch | | | No. | 2 | | | | | |
| b | Spine Switches | | | No. | 2 | | | | | |
| c | Leaf Switches Type -1 | | | No. | 2 | | | | | |
| d | Leaf Switches Type -2 | | | No. | 2 | | | | | |
| e | Leaf Switches Type -3 | | | No. | 2 | | | | | |
| 4 | Security Solutions | | | | | | | | | |
| a | Firewall | | | No. | 2 | | | | | |
| b | EDR for Servers (For windows + Linux) | | | No. | 50 | | | | | |
| c | Identity and access management with SSO for users | | | No. | 0 | | | | | |
| d | Privilege access management solution for users | | | No. | 0 | | | | | |
| e | DNS Security Solutions | | | No. | 1 | | | | | |
| f | Vulnerability assessment and detection response (for 150 IP devices) | | | No. | 1 | | | | | |
| 5 | Cabling System | | | | | | | | | |
| a | CAT6 Cable, Patch cord, Jacks etc. | | | Lot | 1 | | | | | |
| b | Fiber Optical Cable, Connectors, Patch Cord etc. | | | Lot | 1 | | | | | |
| 6 | DC-DRC Optical Connectivity Solutions | | | | | | | | | |
| a | DWDM with multiplexer and demultiplexer (Complete solution) | | | Set | 4 | | | | | |
| b | Communication cards | | | Set | 4 | | | | | |
| c | Communication ports | | | Set | 4 | | | | | |
| d | Fiber Optical Cable Maintenance Connectors, Patch Cord etc. | | | L.S. | 1 | | | | | |
| | | | | | | | | | | |



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| | | | | | | | | | | |
|------|--|--|--|-----|---|--|--|--|--|--|
| 7 | Display and Workstation | | | | | | | | | |
| a | NOC Room: UHD (3840 x 2160) LED Display of minimum 75" Diagonal with complete with wall mount stand, management software and workstation | | | Set | 1 | | | | | |
| b | BMS Room: UHD (3840 x 2160) LED Display of minimum 75" Diagonal with complete with wall mount stand, management software and workstation | | | Set | 1 | | | | | |
| | Sub-total Hardware (B) | | | | | | | | | |
| 8 | CIVIL INFRA - DRC | | | | | | | | | |
| 8-A | Installation of DRC Building, Supply and Delivery (DRC Area and Other Area) | | | | | | | | | |
| 1.01 | Prefabricated Modular type DRC building, 2 storied complete with all accessories for full functioning of the scope of work with minimum requirement as specified. (Scalable up to 3rd floor) (Including server farm area (1765 Sqft), NOC area (265 Sqft), Equipment area (200 Sqft), BMS area (210 Sqft), Power Room area (850 Sqft), Meeting Room (260 Sqft), Cabin Area (220 qft), Corridor area (190 Sqft), Reception area (650 Sqft), Rest room area (165 Sqft) | | | LS | 1 | | | | | |
| 1.02 | 2-ton capacity lift 2 floors all complete (scalable upto 3rd Floor) | | | Set | 1 | | | | | |
| | | | | | | | | | | |
| 8-B | Civil Work for DRC Building and Infrastructures | | | | | | | | | |
| 1.00 | Earth Works and Site Levelling: - | | | | | | | | | |
| 1.01 | Site Preparation and Clearance works including cutting & uprooting shrubs, thick herbs & vegetables, dismantling, levelling & removal of waste, transporting to the specified place as per instruction by site engineer all complete before and after construction. | | | LS | 1 | | | | | |



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| | | | | | | | | | | |
|------|--|--|--|-----|-------|--|--|--|--|--|
| 1.02 | Earth Work in Excavation in all types of soil for all lift including timbering, pumping out water from the foundations, filling the excavated clean soil in layers, disposing the excess soil for all lead as per TS & approvals all complete. | | | Cum | 1500 | | | | | |
| 1.03 | Earthwork in Filling with earth brought from outside in layers with water sprinkling & compaction in levels as per TS & approvals all complete including royalties, taxes etc. | | | Cum | 1000 | | | | | |
| 2.00 | Soling and brick Works: | | | | | | | | | |
| 2.01 | Stone Soling Works as per TS & approvals all complete work. | | | Cum | 200 | | | | | |
| 2.02 | First Class Brickwork in cement sand mortar (1:4 ratio) in perfect line and level including wetting the bricks, packing the joints and curing the work in all types and thickness of walls, column etc. as per TS & approvals all complete | | | Cum | 150 | | | | | |
| 3.00 | Concrete Works: | | | | | | | | | |
| 3.01 | Providing and Laying of Plain Cement Concrete PCC (1:3:6) | | | Cum | 75 | | | | | |
| 3.02 | Providing and Laying of Reinforced Cement Concrete RCC Mix M25 including precast, shuttering, Grouting of Pockets & underpinning but excluding steel Reinforcement | | | Cum | 600 | | | | | |
| 4.00 | Providing and fixing in position Fe 500 steel Reinforcement of various diameter conforming to standard code in RCC works including straightening, cutting, bending, binding with 20 SWG annealed wire for tying the bars (Binding wire shall not be measured separately) including all | | | Kg | 70000 | | | | | |



NEPAL ELECTRICITY AUTHORITY

PROJECT MANAGEMENT DIRECTORATE

Distribution Line and Substation Department

Disaster Recovery Centre Project

| | | | | | | | | | | |
|-------|--|--|--|-----|------|--|--|--|--|--|
| | waste and cut pieces, provisions of adequate spacers, chairs, providing and placing cement cover blocks all complete as per drawings, specifications and approvals. (Lap Length shall not be measured for the payment) | | | | | | | | | |
| 5.00 | Concrete Road including Base/SubBase/Subgrade as per approved drawings all complete excluding Reinforcement and Concrete. | | | sqm | 500 | | | | | |
| 6.00 | Compound Wall Construction: All Civil works compound wall construction including earthwork excavation, Concrete works, steel reinforcement, plaster, painting, barbed wire and concreting etc all complete as per specification and instruction. (1.5 m high B/M wall and 1.0 m high angle support on top) | | | Rm | 200 | | | | | |
| 7.00 | Main Boundary Gate (Mild Steel) all complete as per TS | | | LS | 1 | | | | | |
| 8.00 | Finishing Works | | | | | | | | | |
| 8.01 | Plaster Works (1:4) | | | Sqm | 475 | | | | | |
| 8.02 | Punning Works (1:1) | | | Sqm | 475 | | | | | |
| 8.03 | 60 mm thick Heavy Duty Interlock Colour Pavers over 50 mm thick Crusher Dust all complete as per Instruction | | | Sqm | 1750 | | | | | |
| 9.00 | Detailed Survey, Contour Mapping, Geotechnical Investigations as per TS & approvals | | | LS | 1 | | | | | |
| 10.00 | Provide and Installation of Elevator Super Structures and Lift Platform (Mild Steel) including toughened glass cladding and substructures all complete excluding Excavation, RCC and Reinforcement Steel only that are separately paid as per BPS. | | | LS | 1 | | | | | |



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| | | | | | | | | | | |
|-------------------|--|--|--|----|---|--|--|--|--|--|
| 11.0 0 | Provide and Installation of Emergency Staircase (Mild Steel) with Sheet Cover all complete excluding Excavation, RCC and Reinforcement Steel only that are separately paid as per BPS. | | | LS | 1 | | | | | |
| 12.0 0 | Pump House adaptation works with conduits, machineries and fittings for firefighting and sanitary, as per specifications and approved design according to International/British Standards excluding RCC and Reinforcement only separately paid as per BPS. | | | LS | 1 | | | | | |
| 13.0 0 | Septic Tank & Soak Pit Construction: - Septic Tank and Soakpit with all fittings as per specification and approved design according to International/British standards as per approved drawing excluding RCC & reinforcement only (For 50 users) | | | LS | 1 | | | | | |
| 14.0 0 | Guard House: - All civil works for the building complete in all respect as per technical specification and approved drawing including masonry, finishing, sanitary, water tank, plumbing, electrical works, UPVC doors windows, brickworks etc and excluding excavation, RCC, reinforcement steel which shall be paid separately under respective items. (50 sqm plinth area) | | | LS | 1 | | | | | |
| 15.0 0 | Miscellaneous Structural steel used for gratings, gratings support etc for cable support stand earthing cleats, edge protection and angles for cable trenches | | | LS | 1 | | | | | |
| 8-C- PART A | Complete Installation of the Project-Level Environmental, Health, and Safety Management Plan as mentioned in Annexure VI of the Project-Specific Requirements. | | | | | | | | | |



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Distribution Line and Substation Department

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| | | | | | | | | | | |
|------------|---|--|--|-----|------|--|--|--|--|--|
| 1.01 | Management of temporary and permanent workers' accommodation (day and/or overnight camps) as mentioned in the Appendix C of the Project Level Environmental Management Plan | | | LS | 1 | | | | | |
| 1.02 | Implementation of Corrective Action Plan (CAP) at existing project site | | | LS | 1 | | | | | |
| 1.03 | Contractor's EMP implementation cost (including PPE provision) | | | LS | 1 | | | | | |
| 1.04 | Environmental Quality Monitoring as mentioned in the Project Level Environmental Management Plan | | | LS | 1 | | | | | |
| 8-C-PART B | Use and Dismantle of the Project-Level Environmental, Health, and Safety Management Plan as mentioned in Annexure VI of the Project-Specific Requirements. | | | | | | | | | |
| 1.01 | Dismantle and site clearance of temporary and permanent workers' accommodation (day and/or overnight camps) as mentioned in the Annexure VI of the Project Level Environmental Management Plan | | | LS | 1 | | | | | |
| 1.00 | Earth Works and Site Levelling: - | | | | | | | | | |
| 1.01 | Site Preparation and Clearance works including cutting & uprooting shrubs, thick herbs & vegetables, dismantling, levelling & removal of waste, transporting to the specified place as per instruction by site engineer all complete before and after construction. | | | LS | 1 | | | | | |
| 1.02 | Earth Work in Excavation in all types of soil for all lift including timbering, pumping out water from the foundations, filling the excavated clean soil in layers, disposing the excess soil for all lead as per TS & approvals all complete. | | | Cum | 1500 | | | | | |



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|------|---|--|--|-----|-------|--|--|--|--|--|
| 1.03 | Earthwork in Filling with earth brought from outside in layers with water sprinkling & compaction in levels as per TS & approvals all complete including royalties, taxes etc. | | | Cum | 1000 | | | | | |
| 2.00 | Soling and brick Works: | | | | | | | | | |
| 2.01 | Stone Soling Works as per TS & approvals all complete work. | | | Cum | 200 | | | | | |
| 2.02 | First Class Brickwork in cement sand mortar (1:4 ratio) in perfect line and level including wetting the bricks, packing the joints and curing the work in all types and thickness of walls, column etc. as per TS & approvals all complete | | | Cum | 150 | | | | | |
| 3.00 | Concrete Works: | | | | | | | | | |
| 3.01 | Providing and Laying of Plain Cement Concrete PCC (1:3:6) | | | Cum | 75 | | | | | |
| 3.02 | Providing and Laying of Reinforced Cement Concrete RCC Mix M25 including precast, shuttering, Grouting of Pockets & underpinning but excluding steel Reinforcement | | | Cum | 600 | | | | | |
| 4.00 | Providing and fixing in position Fe 500 steel Reinforcement of various diameter confirming to standard code in RCC works including straightening, cutting, bending, binding with 20 SWG annealed wire for tying the bars (Binding wire shall not be measured separately) including all waste and cut pieces, provisions of adequate spacers, chairs, providing and placing cement cover blocks all complete as per drawings, specifications and approvals. (Lap Length shall not be measured for the payment) | | | Kg | 70000 | | | | | |



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| | | | | | | | | | | |
|-------|--|--|--|-----|------|--|--|--|--|--|
| 5.00 | Concrete Road including Base/Subbase/Subgrade as per approved drawings all complete excluding Reinforcement and Concrete. | | | sqm | 500 | | | | | |
| 6.00 | Compound Wall Construction: All Civil works compound wall construction including earthwork excavation, Concrete works, steel reinforcement, plaster, painting, barbed wire and concreting etc all complete as per specification and instruction. (1.5 m high B/M wall and 1.0 m high angle support on top) | | | Rm | 200 | | | | | |
| 7.00 | Main Boundary Gate (Mild Steel) all complete as per TS | | | LS | 1 | | | | | |
| 8.00 | Finishing Works | | | | | | | | | |
| 8.01 | Plaster Works (1:4) | | | Sqm | 475 | | | | | |
| 8.02 | Punning Works (1:1) | | | Sqm | 475 | | | | | |
| 8.03 | 60 mm thick Heavy Duty Interlock Colour Pavers over 50 mm thick Crusher Dust all complete as per Instruction | | | Sqm | 1750 | | | | | |
| 9.00 | Detailed Survey, Contour Mapping, Geotechnical Investigations as per TS & approvals | | | LS | 1 | | | | | |
| 10.00 | Provide and Installation of Elevator Super Structures and Lift Platform (Mild Steel) including toughened glass cladding and substructures all complete excluding Excavation, RCC and Reinforcement Steel only that are separately paid as per BPS. | | | LS | 1 | | | | | |
| 11.0 | Provide and Installation of Emergency Staircase (Mild Steel) with Sheet Cover all complete excluding Excavation, RCC and Reinforcement Steel only that are separately paid as per BPS. | | | LS | 1 | | | | | |
| 12.0 | Pump House adaptation works with conduits, machineries and fittings for firefighting and | | | LS | 1 | | | | | |



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| | | | | | | | | | | |
|------------|--|--|--|----|---|--|--|--|--|--|
| | sanitary, as per specifications and approved design according to International/British Standards excluding RCC and Reinforcement only separately paid as per BPS. | | | | | | | | | |
| 13.0 | Septic Tank & Soak Pit Construction: - Septic Tank and Soak pit with all fittings as per specification and approved design according to International/British standards as per approved drawing excluding RCC & reinforcement only (For 50 users) | | | LS | 1 | | | | | |
| 14.0 | Guard House: - All civil works for the building complete in all respect as per technical specification and approved drawing including masonry, finishing, sanitary, water tank, plumbing, electrical works, UPVC doors windows, brickworks etc and excluding excavation, RCC, reinforcement steel which shall be paid separately under respective items. (50 sqm plinth area) | | | LS | 1 | | | | | |
| 15.0 | Miscellaneous Structural steel used for gratings, gratings support etc for cable support stand earthing cleats, edge protection and angles for cable trenches | | | LS | 1 | | | | | |
| 8-C-PART A | Complete Installation of the Project-Level Environmental, Health, and Safety Management Plan as mentioned in Annexure VI of the Project-Specific Requirements. | | | | | | | | | |
| 1.01 | Management of temporary and permanent workers' accommodation (day and/or overnight camps) as mentioned in the Appendix C of the Project Level Environmental Management Plan | | | LS | 1 | | | | | |



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| | | | | | | | | | | |
|------------|---|--|--|----|---|--|--|--|--|--|
| 1.02 | Implementation of Corrective Action Plan (CAP) at existing project site | | | LS | 1 | | | | | |
| 1.03 | Contractor's EMP implementation cost (including PPE provision) | | | LS | 1 | | | | | |
| 1.04 | Environmental Quality Monitoring as mentioned in the Project Level Environmental Management Plan | | | LS | 1 | | | | | |
| 8-C-PART B | Use and Dismantle of the Project-Level Environmental, Health, and Safety Management Plan as mentioned in Annexure VI of the Project-Specific Requirements. | | | | | | | | | |
| 1.01 | Dismantle and site clearance of temporary and permanent workers' accommodation (day and/or overnight camps) as mentioned in the Annexure VI of the Project Level Environmental Management Plan | | | LS | 1 | | | | | |
| 14.00 | Guard House: All civil works for the building complete in all respect as per technical specification and approved drawing including masonry, finishing, sanitary, water tank, plumbing, electrical works, UPVC doors windows, brickworks etc and excluding excavation, RCC, reinforcement steel which shall be paid separately under respective items. (50 sqm plinth area) | | | LS | 1 | | | | | |
| 15.00 | Miscellaneous Structural steel used for gratings, gratings support etc for cable support stand earthing cleats, edge protection and angles for cable trenches | | | LS | 1 | | | | | |
| 8-C-PART A | Complete Installation of the Project-Level Environmental, Health, and Safety Management Plan as mentioned in Annexure VI of the Project-Specific Requirements. | | | | | | | | | |



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Distribution Line and Substation Department

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| | | | | | | | | | | |
|------------|--|--|--|-----|---|--|--|--|--|--|
| 1.01 | Management of temporary and permanent workers' accommodation (day and/or overnight camps) as mentioned in the Appendix C of the Project Level Environmental Management Plan | | | LS | 1 | | | | | |
| 1.02 | Implementation of Corrective Action Plan (CAP) at existing project site | | | LS | 1 | | | | | |
| 1.03 | Contractor's EMP implementation cost (including PPE provision) | | | LS | 1 | | | | | |
| 1.04 | Environmental Quality Monitoring as mentioned in the Project Level Environmental Management Plan | | | LS | 1 | | | | | |
| 8-C-PART B | Use and Dismantle of the Project-Level Environmental, Health, and Safety Management Plan as mentioned in Annexure VI of the Project-Specific Requirements. | | | | | | | | | |
| 1.01 | Dismantle and site clearance of temporary and permanent workers' accommodation (day and/or overnight camps) as mentioned in the Annexure VI of the Project Level Environmental Management Plan | | | LS | 1 | | | | | |
| | | | | | | | | | | |
| 9 | Outdoor Power Equipment | | | | | | | | | |
| a | 11/0.400 kV, 1500 kVA Transformer | | | Nos | 2 | | | | | |
| b | 11 kV RMU (3-Way (CVV), 11KV, Gas (SF6) Insulated RMU with 1 Nos 630A load break switch and 2 Nos. 630 A SF6 Insulated VCB) | | | Nos | 1 | | | | | |
| c | 11/0.400 kV, 1500 kVA Diesel Generators | | | Nos | 2 | | | | | |
| d | 11kV HT XLPE Power Cables (approx. 300 mtr. x 2 Run) | | | LS | 1 | | | | | |
| e | 400 V LT Power Cables | | | LS | 1 | | | | | |
| f | Earthing for Transformer, DG, RMU & LA | | | LS | 1 | | | | | |
| g | Lightning Arrestor | | | Nos | 1 | | | | | |



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|-----------|---|--|--|-----|---|--|--|--|--|--|
| | | | | | | | | | | |
| 10 | Indoor Power and Equipment | | | | | | | | | |
| a | Power Panels (ATS+UPS) | | | Set | 1 | | | | | |
| b | Fire Fighting and Fire Separation System | | | Set | 1 | | | | | |
| c | UPS Set (N+N) [600 kVA (scalable to 600 kVA) + 125 kVA] | | | Set | 1 | | | | | |
| d | Equipment and Building Earthing | | | LS | 1 | | | | | |
| e | Cooling Solution for building | | | Set | 1 | | | | | |
| f | Cooling Solution for Server Room | | | Set | 1 | | | | | |
| g | Ventilation Solution for building | | | Set | 1 | | | | | |
| h | Other Systems mentioned in the Tender Documents | | | LS | 1 | | | | | |
| i | Other Systems not mentioned in the Tender Documents but necessary to run the Complete Solution | | | LS | 1 | | | | | |
| | | | | | | | | | | |
| | Sub Total Civil Infra (C) | | | | | | | | | |
| | Total ([(A)+ hardware (B)+ Civil Infra(c)]) | | | | | | | | | |
| | | | | | | | | | | |
| | Total installation cost for Hardware (A) + Software (B) +Civil Infra (C) (Total of column 9 and 11 (A+B+C) to be carried forward to Schedule No. 5: Grand Summary) | | | | | | | | | |

Note:

1. Bidder may quote quantities of line items based on their sizing and proposed solution.
2. The above-mentioned requirements are the minimum requirements. Any components or equipment not listed in the BOQ but required for the complete solution will be provided by the bidder at no additional cost.

Date:

Signature:



NEPAL ELECTRICITY AUTHORITY

PROJECT MANAGEMENT DIRECTORATE

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Disaster Recovery Centre Project

Printed Name:

Designation:

Common Seal:



A handwritten signature in blue ink, appearing to be a stylized representation of the letters "S" and "A".

A handwritten signature in blue ink, appearing to be a stylized representation of the letters "S" and "A".

NEPAL ELECTRICITY AUTHORITY

PROJECT MANAGEMENT DIRECTORATE

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Schedule No. 4: Installation and Other Services (Common for all)

(b): Training Charges for training to be imparted abroad

| Sl. No. | Description | Item for which training is to be imparted. | Country where training is to be imparted | Nos. of Trainee | Training duration in days | Total Training Charges | | |
|---------|---|---|--|-----------------|---------------------------|------------------------|-----------|------------------------|
| | | | | | | Currency | Unit rate | Total Training Charges |
| 1 | 2 | | 3 | 4 | 5 | 6 | | 8 = 4x5 x 7 |
| A | Training to owner's personnel on Design, Testing and Maintenance aspect as per Project requirements and Technical Specification at manufacturer's premises. | Design and Testing of DC/DR Facilities | Abroad | 10 | 6 | | | |
| | | Operation and maintenance of DC/DR Facilities | | 10 | 10 | | | |
| | | Optical Fibre Network and DWDM Technology | | 5 | 5 | | | |
| | | Cloud Services (Hardware and Software) | | 10 | 10 | | | |
| | Total for Training Charges (total of column 8 to be carried forward to Schedule 5: Grand summary) | | | | | | | |

Note:

1. Training at Manufacturer's works: The Contractor shall include in the training charges payment including per Diem allowance to NEA trainees as per PSR.
2. To and fro charges and Training material for the Trainees shall be included in the prices quoted by the bidder including arrangements for trainees for conducting the training.

Date:

Signature:
Printed Name:
Designation:
Common Seal:



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Schedule No. 4: Installation and Other Services (Common for all)

(c): Training Charges for training to be imparted to Employer's Personnel by Bidder's Instructor in Nepal

| Sl. No. | Description of the Test | Item for which training is to be imparted. | Country where training is to be imparted | Nos. of Trainee | Training duration in days | Training Charges for Contractors Trainers | | |
|---|--|--|--|-----------------|---------------------------|---|-----------|------------------------|
| | | | | | | Currency | Unit rate | Total Training Charges |
| 1 | 2 | | 3 | 4 | 5 | 6 | 7 | 8 = 5x 7 |
| a) | On the Job (OJT) on operation, maintenance, testing and commissioning aspect as per Project requirements and Technical Specification at manufacturer's premises. | Operation and maintenance of DRC facilities | Nepal | 10 | 10 | | | |
| | | Operation and maintenance of Optical fibre Network and DWDM Technology | | 10 | 5 | | | |
| | | Operation and maintenance of Cloud Services (Hardware and Software) | | 10 | 15 | | | |
| Total for Training Charges (Total of column 8 to be carried forward to Schedule 5: Grand Summary) | | | | | | | | |

Note:

1. On Job Training in Nepal: The traveling and living expenses of Bidder's personnel for the training programme conducted in Nepal shall be borne by the Bidder/Contractor.
2. To and fro charges and accommodation for the instructor (Trainer) and Training material for the Trainees shall be included in the prices quoted by the bidder including arrangements for trainees for conducting the training.

Date:

Signature:
 Printed Name:
 Designation:
 Common Seal:



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Schedule No. 4: Installation and Other Services (Common for all)

(d): AMC and FMS charges with Necessary Spares and Consumables

| Sl. No | Description | Unit | Qty. | Currency | AMC/FMS Charges | | | |
|---|---|------|------|----------|-----------------|----------------|----------------|-------------|
| | | | | | Year -1 charges | Year-2 charges | Year-3 charges | Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 = (6+7+8) |
| Annual Maintenance Services (AMC) | | | | | | | | |
| 1 | AMC for Cloud Services for DC and DR including both S/w & H/w (3 years after Go-Live) | Lot | 1 | | | | | |
| 2 | AMC for DR Infrastructure, Optical fibre network for DC-DR DWDM Solution and DWDM Equipment (3 years after Go-Live) | Lot | 1 | | | | | |
| Total AMC Charge for 3 years | | | | | | | | |
| Facility Management Services (FMS) | | | | | | | | |
| 1 | FMS Cost for Cloud Orchestrator Solution, Security, Application Software, Firewall etc. (3 Years after go live) | LS | 1 | | | | | |
| 2 | FMS for all DC/DRC related facilities (3 Years after go live) | LS | 1 | | | | | |
| 3 | FMS for DWDM/ Optical fibre (3 Years after go live) | LS | 1 | | | | | |
| Total FMS Charge for 3 years | | | | | | | | |
| Total AMC and FMS Charges (Total of column 9 to be carried forward to Schedule 5: Grand Summary)) | | | | | | | | |

Note:

- Maintenance of fibre between (DC-DR) must be considered for 3 years after Go-Live.

Date:

Signature:

Printed Name:

Designation:

Common Seal:



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Schedule No. 5: Grand Summary

| Sl. No. | Description | Total Price Foreign (USD) | Total Price Local (NPR) |
|---------|---|------------------------------|----------------------------|
| | | 1 | 2 |
| 1 | TOTAL SCHEDULE NO. 1 | | |
| | Plant and Equipment including Mandatory Spares to be supplied from abroad. | | |
| 2 | TOTAL SCHEDULE NO. 2 | | |
| | Plant and Equipment including Mandatory Spares Parts to be supplied from within Nepal | | |
| 3 | TOTAL SCHEDULE NO. 3 | | |
| | Design Services | | |
| 4 | TOTAL SCHEDULE NO. 4 | | |
| | (a) Installation and construction charges | | |
| | (b) Training charges for training to be imparted Abroad | | |
| | (c) Training charges for training to be imparted in Nepal | | |
| | (d) AMC and FMS charges with Necessary Spares and Consumables | | |
| | SUB TOTAL [1+2+3+4] | | |
| | GRAND TOTAL [1+2+3+4] | | |

Date:

Signature:
Printed Name:
Designation:
Common Seal:



PROJECT MANAGEMENT DIRECTORATE
Distribution Line and Substation Department
Disaster Recovery Centre Project

| Item No. | Item description | Installation Charge | | | | | | | | |
|----------|------------------|---------------------|--------------------|------|----------|-----------------------------|-----------|---------------|-------------------------------------|--------------|
| | | Country of origin | Type & Designation | Unit | Quantity | Portion In Foreign Currency | | | Portion In Nepalese Currency In NPR | |
| | | | | | | Currency | Unit Rate | Total Charge | Unit Rate | Total Charge |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | 9 = (8) x (6) | (10) | 11=10X6 |
| | | | | | | | | | | |
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Signature:
Printed Name:
Designation:
Common Seal:

