# Addendum No. 02

| | |
|---|---|
| **RFB No:** | ***PK-HESCO-RECOND. HTLS -T/L-NCB/11*** |
| **Description** | **DESIGN, SUPPLY & INSTALLATION OF RECONDUCTORING WITH HTLS AT 132KV TRANSMISSION LINE AT JAMSHORO QASIMABAD-HALA ROAD AND JAMSHORO-RAJPUTANA-HALA ROAD** |

This Addendum is being issued on 04-06-2026 to amend the Request for Bids (RFB) for the above-referenced tender. The Addendum shall form an integral part of the Bidding Documents and shall be complied with by all bidders.

| RFB Ref | Previous clause/Item | Revised clause/Item |
|---|---|---|
| Section III - Evaluation and Qualification Criteria 4.1 General Experience | Experience in Power Sector under contracts in the role of contractor, subcontractor, or management contractor for at least **the last (10) years starting 1st January 2016.** | Experience in Power Sector under contracts in the role of contractor, subcontractor, or management contractor for at least **last (07) years starting 1st January 2019.** |
| Section IV-Bidding Form Schedule No.05 Grand Summary | Total Schedule 1, 2, 3 & 4 (**Taxes & Duties Not To be included in Bid evaluation**). | Total Schedule 1, 2, 3 & 4 (**GST & PST Not To be included in Bid evaluation**). |
| Schedule No. 3. Installation and Other Services | Schedule No. 3. Installation and Other Services | Schedule No. 3. Installation and Other Services (Revised) **Copy Attached.** |

**Note:** **All other terms and conditions of the Standard Procurement documents and Specific Procurement notice shall remain the same.**

4/6/26

**Chief Engineer (Development)**
**PMU, HESCO, Hyderabad.**



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## Schedule No. 3. Installation and Other Services
## (Revised)

Reconductoring with HTLS at 132kV Transmission Line from Jamshoro - Qasimabad - Hala Road and Jamshoro Rajputana-Hala Road

| Item No. | Description | Unit | Qty | Unit Price | Total Price without SST | PST 15% | Total Price Inclusive of SST |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=6+7 |
| | **132 kV TRANSMISSION LINE** | | | | | | |
| **A-1** | **Construction of concrete spread foundation (4 Legs for each Tower) of the following types in varied soil , boulder, complete with supply of material including alignment, peg marking, SS preparatory work, excavating, leveling, grading, cutting, stub along with cleats setting, grounding , concreting, application of three coats of bitumen after curing compound, backfilling and compacting etc. for** | | | | | | |
| | Light angle pole type L-60 (Lantative). Foundation of Tower type Lantative L-60 with angle of response repose (20 Degree) Drawing No. PDW/TC-977 | No. | 2 | | | | |
| **A-2** | **Civil Works: Rehabilitation of Tower Foundations** | | | | | | |
| | Detail of Towers, Foundation to be Rehabilitated from among these Towers.<br>Construction/Rehabilitation including Excavation, Backfilling and Compacting of existing detoriated Tower foundations by dismantling of existing foundation/ & Chimney Raising (both types of Foundation (Pile or Conventional type) as per decision of Engineers. Details of Towers is as under: Total Towers of T/Line.<br>(i) Tower Type "ZM1" = 40 x 4= 160 (Footing/Legs)<br>(ii)Tower Type "ZM30" = 14 x 4 = 56(Footing/Legs)<br>(iii)Tower Type "ZM60" = 11x 4 = 44 (Footing/Legs)<br>(iv)Tower Type "EB"(River "X")=3x 4 =12 (Footing/Legs) | | | | | | |
| | **Rehabilitation of Suspension Tower Type ZM1=40Nos** | | | | | | |
| | Reinforcement of Tower foundations including stub repairing and stub jointing works, Tower member repairing & Member | | | | | | |

## Schedule No. 3. Installation and Other Services
## (Revised)

Reconductoring with HTLS at 132kV Transmission Line from Jamshoro - Qasimabad - Hala Road and Jamshoro Rajputana-Hala Road

| Item No. | Description | Unit | Qty | Unit Price | Total Price without SST | PST 15% | Total Price Inclusive of SST |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=6+7 |
| | Jointing works of complete Transmission Line routes. (Concreting Ratio shall be=1:1.5:3). | | | | | | |
| 1 | CLASS-A: Repairing and raising (if required) the existing tower damaged foundations after removing the damaged concrete and cleaning the exposed reinforcement (Excavation, Backfilling and Compacting). Apply protection Coating against water/chemicals with approved chemical as designed and as specified. (to be verified by Engineers of HESCO/Consultant) 31 Towers X 4 =124 Footing (DRAWING NO. HESCO/FOU-01) | Footing/ Legs | 124 | | | | |
| 2 | CLASS-B: Jacketing (concreting and reinforcement) the existing damaged tower foundations after removing the damaged concrete and removing the rusted reinforcement and adding the required reinforcement as per design (Excavation, Backfilling and Compacting). Apply protection coating against water/chemicals with approved chemical as designed and as specified. (to be verified by Engineers of HESCO/Consultant) 5 Towers X 4 =20 Footing/Legs. (DRAWING NO. HESCO/FOU-02) | Footing/ Legs | 20 | | | | |
| 3 | CLASS-C: Jacketing & reaping the stub (concreting, reinforcement and but jointing the damaged stub) the existing damaged tower foundations after removing the damaged concrete and removing the rusted reinforcement and adding the required reinforcement as per design (Excavation, Backfilling and Compacting). Apply protection coating against water/chemicals with approved chemical as designed and as specified. (to be verified by Engineers of HESCO/Consultant) 2Towers X 4 =8 Footing. (DRAWING NO. HESCO/FOU-03) | Footing/ Legs | 8 | | | | |

## Schedule No. 3. Installation and Other Services
## (Revised)

Reconductoring with HTLS at 132kV Transmission Line from Jamshoro - Qasimabad - Hala Road and Jamshoro Rajputana-Hala Road

| Item No. | Description | Unit | Qty | Unit Price | Total Price without SST | PST 15% | Total Price Inclusive of SST |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=6+7 |
| **A-3** | **Medium Angle Tower Type ZM30 =14Nos** | | | | | | |
| | Reinforcement of Tower foundations including stub repairing and stub jointing works, Tower member repairing & Member Jointing works of complete Transmission Line routes. (concreting Ratio shall be=1:1.5:3). | | | | | | |
| 1 | **CLASS-A:** Repairing and raising (if required) the existing tower damaged foundations after removing the damaged concrete and cleaning the exposed reinforcement (Excavation, Backfilling and Compacting). Apply protection Coating against water/chemicals with approved chemical as designed and as specified. (to be verified by Engineers of HESCO/Consultant). 10Towers X 4 = 40 Footings. (DRAWING NO. HESCO/FOU-01) | Footing/ Legs | 40 | | | | |
| 2 | **CLASS-B:** Jacketing (concreting and reinforcement) the existing damaged tower foundations after removing the damaged concrete and removing the rusted reinforcement and adding the required reinforcement as per design (Excavation, Backfilling and Compacting). Apply protection coating against water/chemicals with approved chemical as designed and as specified. (to be verified by Engineers of HESCO/Consultant). One Tower =4 Footing. (DRAWING NO. HESCO/FOU-02) | Footing/ Legs | 4 | | | | |
| 3 | **CLASS-C:** Jacketing & reaping the stub (concreting, reinforcement and but jointing the damaged stub) the existing damaged tower foundations after removing the damaged concrete and removing the rusted reinforcement and adding the required reinforcement as per design (Excavation, Backfilling and Compacting). Apply protection coating against water/chemicals with approved | Footing/ Legs | 4 | | | | |

## Schedule No. 3. Installation and Other Services
## (Revised)

Reconductoring with HTLS at 132kV Transmission Line from Jamshoro - Qasimabad - Hala Road and Jamshoro Rajputana-Hala Road

| Item No. | Description | Unit | Qty | Unit Price | Total Price without SST | PST 15% | Total Price Inclusive of SST |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=6+7 |
| | chemical as designed and as specified. (to be verified by Engineers of HESCO/Consultant). One Tower X 4 =4 Footings. (DRAWING NO. HESCO/FOU-03) | | | | | | |
| **A-4** | **Heavy Angle Tower Type ZM60=11 Nos** | | | | | | |
| | Reinforcement of Tower foundations including stub repairing and stub jointing works, Tower member repairing & Member Jointing works of complete Transmission Line routes. (concreting Ratio shall be=1:1.5:3). | | | | | | |
| 1 | **CLASS-A:** Repairing and raising (if required) the existing tower damaged foundations after removing the damaged concrete and cleaning the exposed reinforcement (Excavation, Backfilling and Compacting). Apply protection Coating against water/chemicals with approved chemical as designed and as specified. (to be verified by Engineers of HESCO/Consultant). 8 Towers X 4 =32 DRAWING NO. HESCO/FOU-01 | Footing/ Legs | 32 | | | | |
| 2 | **CLASS-B:** Jacketing (concreting and reinforcement) the existing damaged tower foundations after removing the damaged concrete and removing the rusted reinforcement and adding the required reinforcement as per design (Excavation, Backfilling and Compacting). Apply protection coating against water/chemicals with approved chemical as designed and as specified. (to be verified by Engineers of HESCO/Consultant). One Tower. (DRAWING NO. HESCO/FOU-02) | Footing/ Legs | 4 | | | | |

## Schedule No. 3. Installation and Other Services
## (Revised)

Reconductoring with HTLS at 132kV Transmission Line from Jamshoro - Qasimabad - Hala Road and Jamshoro Rajputana-Hala Road

| Item No. | Description | Unit | Qty | Unit Price | Total Price without SST | PST 15% | Total Price Inclusive of SST |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=6+7 |
| 3 | **CLASS-C:** Jacketing & reaping the stub (concreting, reinforcement and but jointing the damaged stub) the existing damaged tower foundations after removing the damaged concrete and removing the rusted reinforcement and adding the required reinforcement as per design (Excavation, Backfilling and Compacting). Apply protection coating against water/chemicals with approved chemical as designed and as specified. (to be verified by Engineers of HESCO/Consultant). One Tower. (DRAWING NO. HESCO/FOU-03) | Footing/ Legs | 4 | | | | |
| **A-5** | **"EB" River Crossing Towers= 3Nos** | | | | | | |
| | Reinforcement of Tower foundations including stub repairing and stub jointing works, Tower member repairing & Member Jointing works of complete Transmission Line routes. (concreting Ratio shall be=1:1.5:3). | | | | | | |
| | **CLASS-A:** Repairing and raising (if required) the existing tower damaged foundations after removing the damaged concrete and cleaning the exposed reinforcement (Excavation, Backfilling and Compacting). Apply protection Coating against water/chemicals with approved chemical as designed and as specified (to be verified by Engineers of HESCO/Consultant) (DRAWING NO. HESCO/FOU-01) | Footing/ Legs | 1 | | | | |
| | **CLASS-B:** Jacketing (concreting and reinforcement) the existing damaged tower foundations after removing the damaged concrete and removing the rusted reinforcement and adding the required reinforcement as per design (Excavation, Backfilling and Compacting). Apply protection coating against water/chemicals | Footing/ Legs | 1 | | | | |

## Schedule No. 3. Installation and Other Services
## (Revised)

Reconductoring with HTLS at 132kV Transmission Line from Jamshoro - Qasimabad - Hala Road and Jamshoro Rajputana-Hala Road

| Item No. | Description | Unit | Qty | Unit Price | Total Price without SST | PST 15% | Total Price Inclusive of SST |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=6+7 |
| | with approved chemical as designed and as specified. (to be verified by Engineers of HESCO/Consultant). (DRAWING NO. HESCO/FOU-02) | | | | | | |
| **A-6** | **Grounding Of Towers** | | | | | | |
| 1 | Grounding of Towers, if anywhere found damage during exposing for condition examination by the Engineer. | Sets | 5 | | | | |
| **A-7** | **Transportation & Erection** | | | | | | |
| 1 | Transportation and installation of 132 KV Single circuit medium angle type tower Lantative L-60. | No. | 2 | | | | |
| 2 | Transportation and Erection of Missing, Short & Rusted Braces/Nuts & Bolts, and replacement of V/U-Shackle on all (Suspension/Angle) Tower/Poles, Anti rusted & anti corrosion paint shall be applied on replaced New Nut & Bolts Excluding Poles installed at feed for Rajputana GS & Poles falling in Saima Society. Note: - Welding should be applied on each replaced Nut & Bolts falling up to 6 meters. | KG | 12,000 | | | | |
| 3 | Painting of Tower (3 Coats) including Anti rusted & anti corrosion layer shall be applied on all rusted member & braces on each Tower. | MTR | 60 | | | | |
| 4 | Anti-Theft Metal Cover Plate shall be provided on Tubular Poles including welding of foundation Bolt. (Where applicable on each Tower.) | Nos. | 20 | | | | |

## Schedule No. 3. Installation and Other Services
## (Revised)

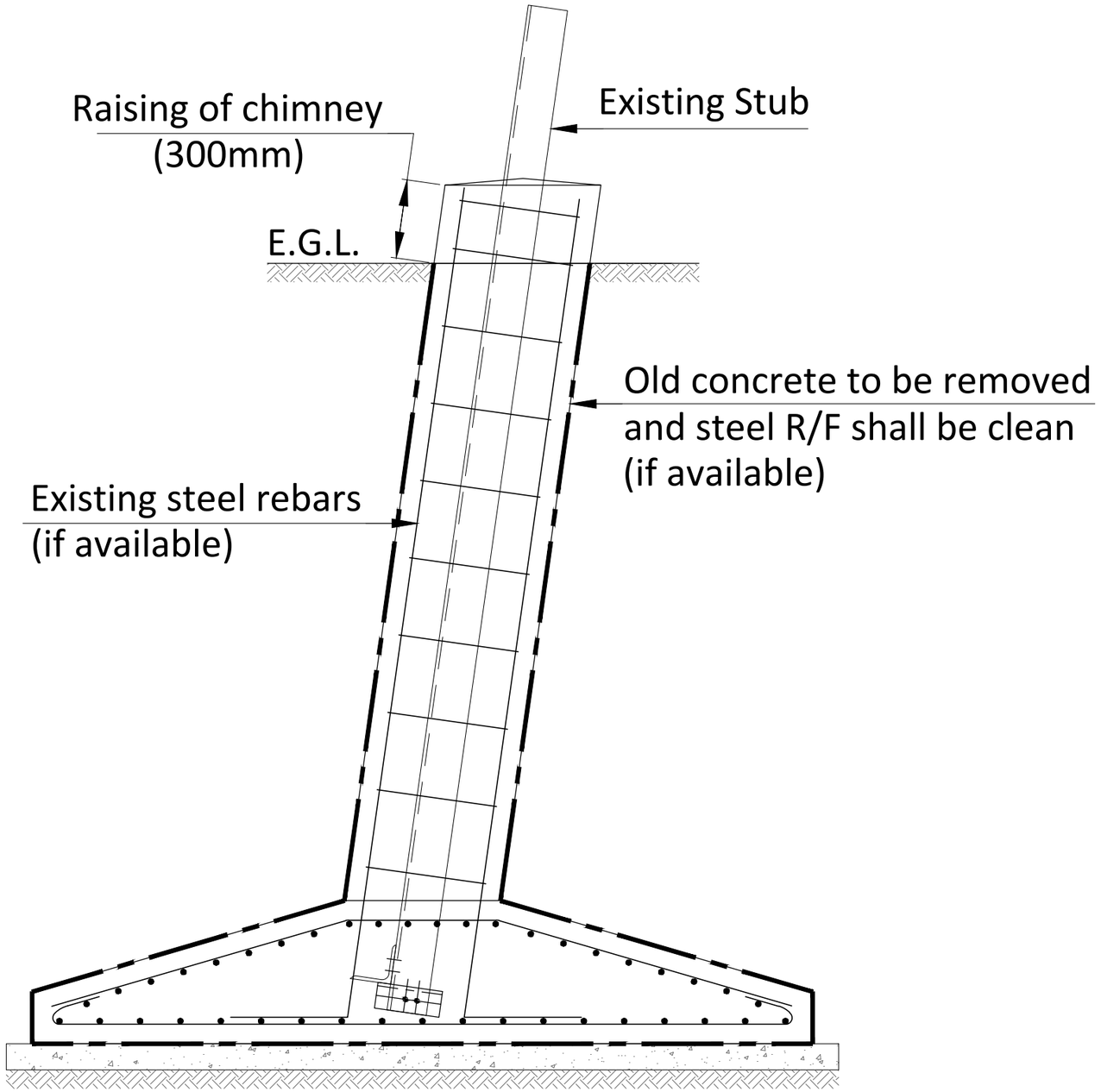
Reconductoring with HTLS at 132kV Transmission Line from Jamshoro - Qasimabad - Hala Road and Jamshoro Rajputana-Hala Road

| Item No. | Description | Unit | Qty | Unit Price | Total Price without SST | PST 15% | Total Price Inclusive of SST |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=6+7 |
| **A-8** | **Stringing / Dismantling work. (Stringing/Dismantling work shall be carried out in a populated area which require a meticulous, Safety focused & controlled tension approach to protect the Public & prevent damage to existing property).** | | | | | | |
| 1 | Dismantling of existing ACSR "LYNX" Conductor, Shield Wire and all allied Hardware & Disc Insulators of existing 132 kV Double Circuit Transmission line and safe transport & return to HESCO designated store. | KM | 25 | | | | |
| 2 | Stringing of new 6 Nos HTLS Conductor and 1 No Shield Wire(Stringing through Mechanical Mean by using Tensioner, Puller & etc.)including Installation of all Allied Hardware, Composite Insulators, conductor accessories, deadening and installation of Stock Bridge Vibration Dampers etc. of 132 kV Double Circuit Transmission Line, including transportation of material from site store to site of work complete in all respects as per specifications & approved drawings Notes. | KM | 25 | | | | |
| **A-9** | **Mitigation Measures for Environmental Management and Monitoring Plan (EMMP)** | | | | | | |
| 1 | Soil Quality Monitoring/testing | Test | 1 | | | | |
| 2 | Water Quality Monitoring/ Testing/ Analysis | Test | 5 | | | | |
| 3 | Air Quality Monitoring/Testing | Test | 4 | | | | |

## Schedule No. 3. Installation and Other Services
## (Revised)

Reconductoring with HTLS at 132kV Transmission Line from Jamshoro - Qasimabad - Hala Road and Jamshoro Rajputana-Hala Road

| Item No. | Description | Unit | Qty | Unit Price | Total Price without SST | PST 15% | Total Price Inclusive of SST |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6=4x5 | 7 | 8=6+7 |
| 4 | Water Consumption Monitoring/Analysis | Test | 1 | | | | |
| 5 | Noise Monitoring/Analysis/Measurement | Test | 1 | | | | |
| 6 | Other Environmental & Social Mitigation | Job | 1 | | | | |
| 7 | Solid Waste & Wastewater Measurement | Job | 4 | | | | |
| | **TOTAL OF ITEMS A-1 TO A-9** | | | | | | |
| **B-1** | Total of Local Transportation, Insurance and other incidental services (if any) | **LS** | | | | | |
| | **Total of Column 6 shall be carried forward to Schedule 5 Grand Summary.** | | | | | | |
| | | | | **Name of Bidder** | | | |
| | | | | **Signature of Bidder** | | | |




# REHABILITATION OF EXISTING TOWER FOUNDATION TYPE-A

**Description of work for Type:A**

1. Repairing and Raising (if required) the existing tower damaged foundations after removing the damaged concrete & cleaning the exposed reinforcement as approved by HESCO / Consultant Engineers.
2. Apply protection coating on concrete & steel rebar's (if steel rebar's exist) against water / Chemicals etc with approved Chemical as specified / approved by the HESCO / Consultant Engineers.
3. Depth of the repaired concrete shall be as per site (Max. 1.5m depth) requirement as approved by HESCO / Consultant Engineers.
4. This Drawing is applicable for all types of Chimney foundations such as Round, Square & for Chimney of Pile.
5. Size of Chimney foundations shall be as per existing foundation type.
6. The sketch shown for tower type ZM1,ZM30 & ZM60, are for reference only,actual dimension shall be as per site.
7. Ratio of concrete shall be 1 : 1.5 : 3 (3000 PSI) by using S.R Cement as approved by the HESCO / Consultant Engineers.
8. E.G.L. stands for existing ground level.

TENDER TENTATIVE DRAWING

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | IFA | 31/10/2025 | ISSUED FOR APPROVAL | KH | MA | FH |
| | | Date | | Prepared | Checked | Approved |

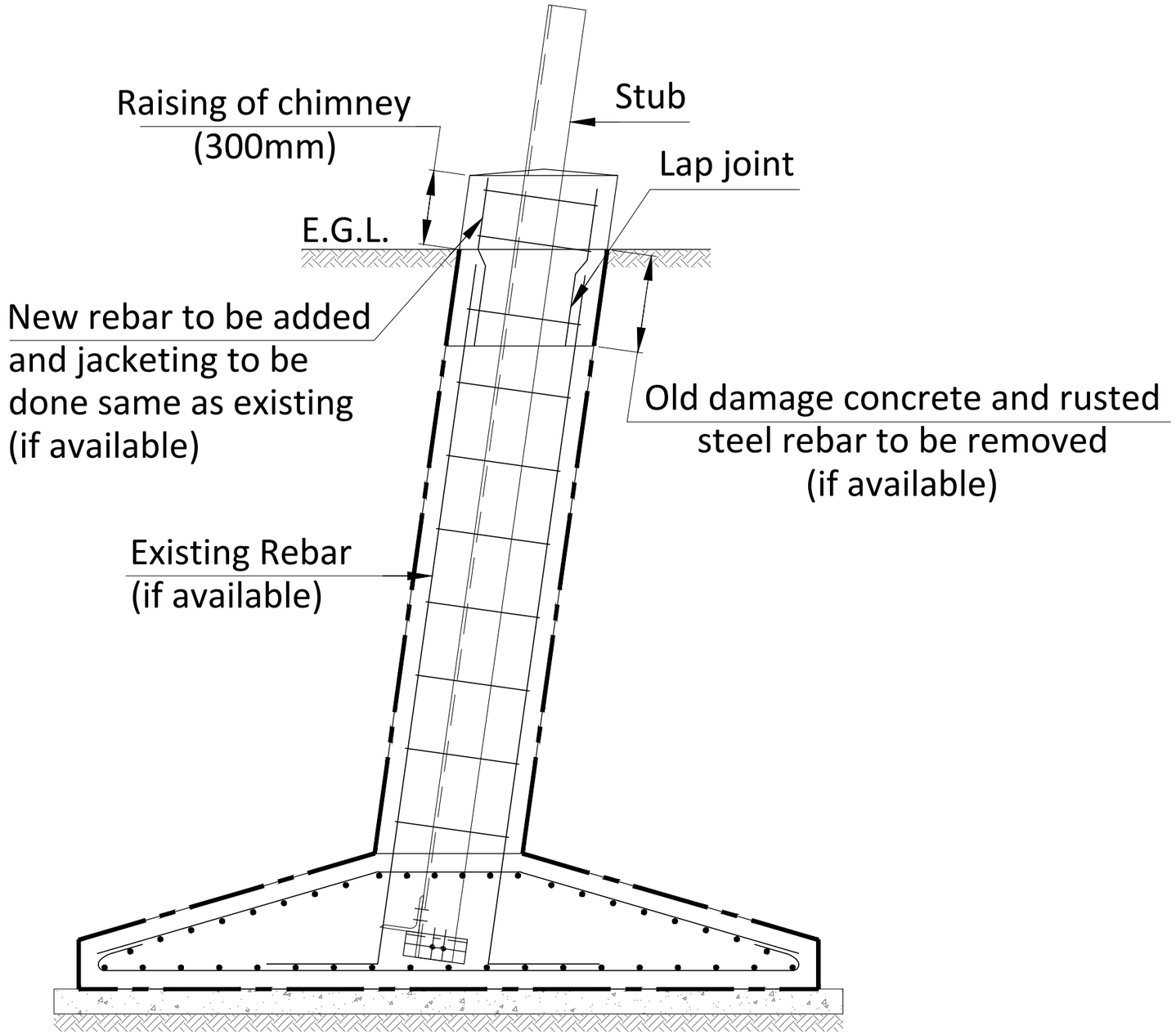
CLIENT:
HYDERABAD ELECTRIC SUPPLY COMPANY (HESCO)

PROJECT:
CONSULTING SERVICES FOR HESCO ELECTRICITY DISTRIBUTION EFFICIENCY IMPROVEMENT PROJECT (EDEIP) UNDER WORLD BANK

ENGINEERING CONSULTANT:
SMEC PTY LTD. AUSTRALIA

DRAWING TITLE:
Rehabilitation of Existing Tower Foundations Type - A
For Re-Conductring of 132kV Double Circuit T/Line,
Jamshoro - Qasimabad - Hala Road & Jamshoro - Rajputana - Hala Road

| SCALE | PROJECT NO. | DRAWING NO. | SHEET |
|---|---|---|---|
| 1:1 | HESCO | HESCO/FOU-01 | 1 OF 3 |




# REHABILITATION OF EXISTING TOWER FOUNDATION TYPE-B

Description of work for Type:B

1. Repairing and Raising (if required) the existing tower damaged foundations after removing the damaged concrete & cleaning the exposed reinforcement as approved by HESCO / Consultant Engineers.
2. Apply protection coating on concrete & steel rebar's (if steel rebar's exist) against water / Chemicals etc with approved Chemical as specified / approved by the HESCO / Consultant Engineers.
3. Depth of the repaired concrete shall be as per site (Max. 1.5m depth) requirement as approved by HESCO / Consultant Engineers.
4. This Drawing is applicable for all types of Chimney foundations such as Round, Square & for Chimney of Pile.
5. Size of Chimney foundations shall be as per existing foundation type.
6. The sketch shown for tower type ZM1,ZM30 & ZM60, are for reference only,actual dimension shall be as per site.
7. Ratio of concrete shall be 1 : 1.5 : 3 (3000 PSI) by using S.R Cement as approved by the HESCO / Consultant Engineers.
8. E.G.L. stands for existing ground level.

TENDER TENTATIVE DRAWING

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | IFA | 31/10/2025 | ISSUED FOR APPROVAL | KH | MA | FH |
| | | Date | | Prepared | Checked | Approved |

CLIENT:
HYDERABAD ELECTRIC SUPPLY COMPANY (HESCO)

PROJECT:
CONSULTING SERVICES FOR HESCO ELECTRICITY DISTRIBUTION EFFICIENCY IMPROVEMENT PROJECT (EDEIP) UNDER WORLD BANK

ENGINEERING CONSULTANT:
SMEC PTY LTD. AUSTRALIA

DRAWING TITLE:
Rehabilitation of Existing Tower Foundations Type - B
For Re-Conductring of 132kV Double Circuit T/Line,
Jamshoro - Qasimabad - Hala Road & Jamshoro - Rajputana - Hala Road

| SCALE | PROJECT NO. | DRAWING NO. | SHEET |
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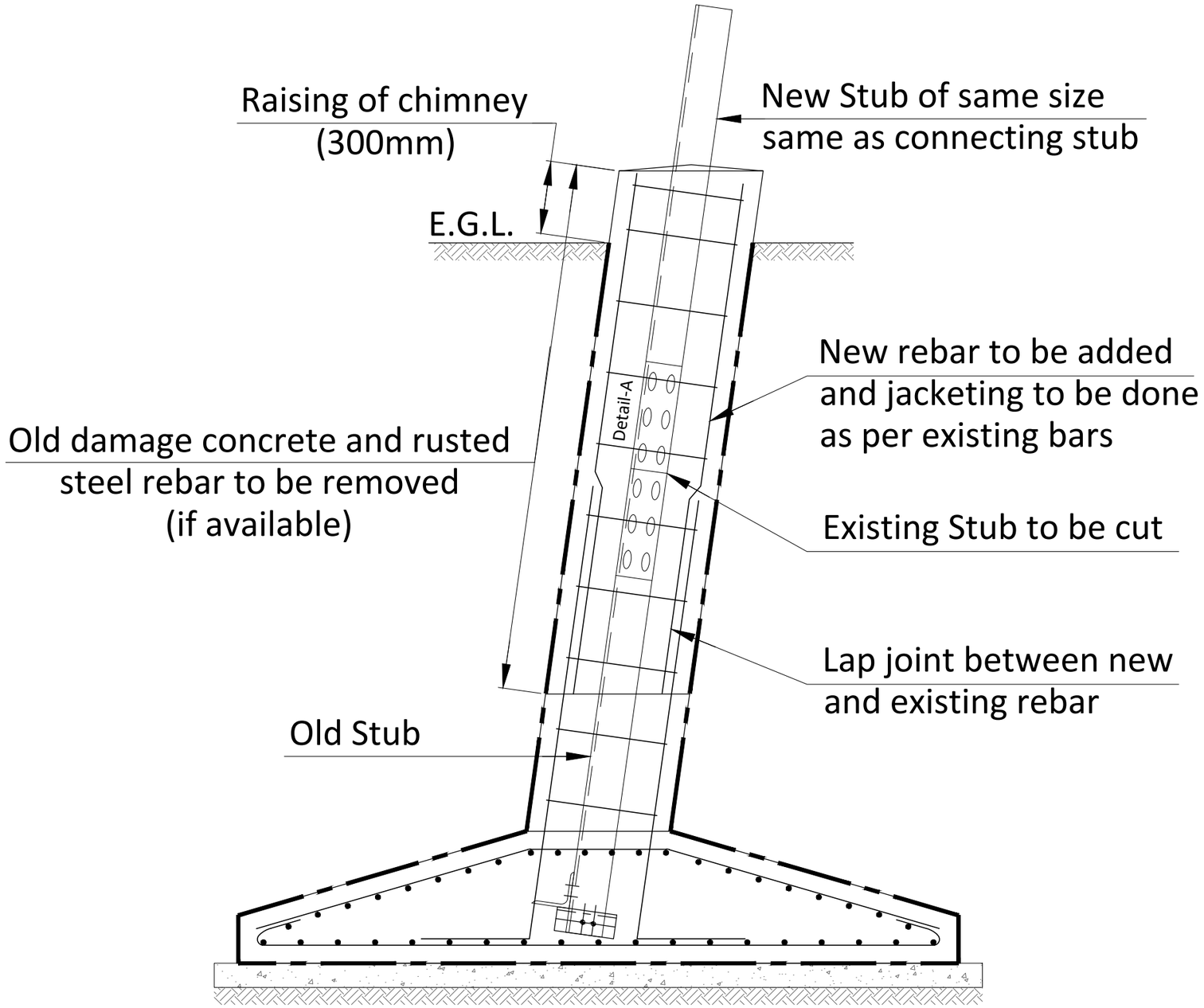
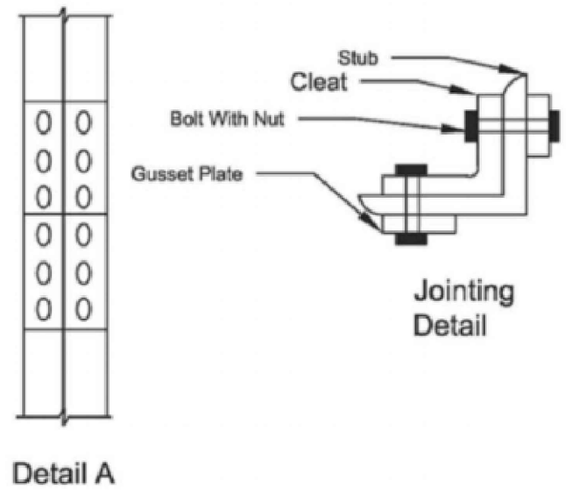



# REHABILITATION OF EXISTING TOWER FOUNDATION TYPE-C

Description of work for Type:C

1. Repairing and Raising (if required) the existing tower damaged foundations after removing the damaged concrete & cleaning the exposed reinforcement as approved by HESCO / Consultant Engineers.
2. Apply protection coating on concrete & steel rebar's (if steel rebar's exist) against water / Chemicals etc with approved Chemical as specified / approved by the HESCO / Consultant Engineers.
3. Depth of the repaired concrete shall be as per site (Max. 1.5m depth) requirement as approved by HESCO / Consultant Engineers.
4. This Drawing is applicable for all types of Chimney foundations such as Round, Square & for Chimney of Pile.
5. Size of Chimney foundations shall be as per existing foundation type.
6. The sketch shown for tower type ZM1,ZM30 & ZM60, are for reference only,actual dimension shall be as per site.
7. Ratio of concrete shall be 1 : 1.5 : 3 (3000 PSI) by using S.R Cement as approved by the HESCO / Consultant Engineers.
8. E.G.L. stands for existing ground level.




TENDER TENTATIVE DRAWING

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| 0 | IFA | 31/10/2025 | ISSUED FOR APPROVAL | KH | MA | FH |
| | | Date | | Prepared | Checked | Approved |

CLIENT:
HYDERABAD ELECTRIC SUPPLY COMPANY (HESCO)

PROJECT:
CONSULTING SERVICES FOR HESCO ELECTRICITY DISTRIBUTION EFFICIENCY IMPROVEMENT PROJECT (EDEIP) UNDER WORLD BANK

ENGINEERING CONSULTANT:
SMEC PTY LTD. AUSTRALIA

DRAWING TITLE:
Rehabilitation of Existing Tower Foundations Type - C
For Re-Conductring of 132kV Double Circuit T/Line,
Jamshoro - Qasimabad - Hala Road & Jamshoro - Rajputana - Hala Road

| SCALE | PROJECT NO. | DRAWING NO. | SHEET |
|---|---|---|---|
| 1:1 | HESCO | HESCO/FOU-01 | 3 OF 3 |