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|  | **Bhadla-II** |  |  |  |
|  | C/ENGG-SS/NR/SEZ/Bhadla-II P.S/ GA/ 01, Rev0. & 0753 BDLA SUBS SWYD E DRG 42 001 | General Arrangement Drawing of 765/400/220kV Bhadla-II PS (Extn.) & Existing Drawings "Electrical Layout Plan" | Discrepancy in the bay sequence.  *There is discrepancy in the ICT bay sequence as shown in both the layouts. Kindly confirm the correct bay sequence that the bidder is required to follow.* | ICT’s bay Sequence shown for present scope of work is correct, Bidder may also refer SLD for the same. |
|  | Cl.no3.1 | Section Project | DSLP Protection for Existing 400/220kV Bhadla-II.  *We understand for proposed extension scope, bay lightning protection will be achieved through shield wires. No separate lightning mast is to be considered. Please confirm.* | Lightening protection of 400kV & 220kV system extension is under present scope.    DSLP protection for 400kV yard shall be achieved through Shield wires, however for 220kV Yard same shall be achieved through LM based on DSLP calculations. |
|  | Cl.no 3.1 | Section Project | Lighting, illumination, Fire alarm System and Air Conditioning System.  We understand earthing, illumination, lightining protection , fire fighting & cabling under present scope will be limited to extension bay area only. We have not envisaged any extension of same to future bays (if any). Please confirm. | Bidder to quote as per provision of bidding documents. |
|  | Cl.no 3.1 | Section Project | Extension Of ACDB, MLDB & ELDB.  We understand adequate wired feeder ratings and quanity to cater to extension scope requirement are available in existing MLDB and ELDB at the Existing 400/220kV Bhadla-II substation. Please confirm. | Please refer Amendment no.-I dated 17.02.2021 |
|  | Cl.no 3.1 | Section Project | Battery for 220V & 48V DC System.  we have assumed adequate spare capacity in existing 220 and 48V DC system to meet the two new bays requirement. Please confirm | Please refer sl. no. 11 in Amendment no. -I dated 17.02.2021 |
|  | General | General | Trench work at Existing 400/220kV Bhadla-II.  We understand main cable trench between existing bay and existing control room has adequate space to accommodate the extension scope cabling requirement. Please confirm. | Please refer Sr.no. 112 in Clarification no.-I dated 17.02.2021. |
|  | Section Project, Clause No. Civil Work - II(g) | Bhadla Substation | Dismantling and re erection of existing fencing.  *The line item for Dismantling and re erection of existing fencing is not appearing in the Sch\_3 of price schedule. Kindly include the same.* | Dismantling of existing fencing is not envisaged during tender stage. However if any encountered during detailed engineering, same shall be dealt as per provision of bidding documents, |
|  |  | Section project | Clause 3.1c) | Busbar -400kV Bhadla-II.  Since the position of Sectionaliser as per SLD (under present scope) contains existing Bays at either side (shown green), we understand for the new 400kV Busbar, only the bays clouded are to be considered. Please confirm.  Also, for 220kV, new Busbar is to be considered under the clouded portion (red-cloud) covering future bays till sectionaliser. Beyond Sectionaliser, we understand Busbar protection is not required to be considered, kindly confirm. | Please refer Sr.no. 176 in Clarification no.-I dated 17.02.2021.  Confirmed. |
|  | **Bikaner-II** |  |  |  |
|  | Cl.no 4.1 | Section Project | Conductor Type & Details required.  *Please provide the conductor configuration & details of the existing 400kV BIKANER- II (EXTN.) substation.* | As Bikaner -II PS is being developed under separate package, the requisite details shall be provided during detailed engineering. Bidder shall quote as per BPS. |
|  | Cl.no 4.1 | Section Project | Bay allocation at Existing 400kV BIKANER- II (EXTN.)  *We understand the proposed bay extension is adjacent to the existing bays. Please confirm.* | CONFIRMED |
|  | Cl.no 4.1 | Section Project | DSLP Protection for Existing 400kV BIKANER- II (EXTN.)  *We understand for proposed extension scope, bay lightning protection will be achieved through shield wires. No separate lightning mast to be considered. Please confirm.* | CONFIRMED |
|  | Cl.no 4.1 | Section Project | Exsiting S/s Earthing Details of Existing 400kV BIKANER- II (EXTN.).  *Please furnish the exisiting 400kV BIKANER- II (EXTN.) earthmat layout , conductor details, depth and spacing.* | As Bikaner -II PS is being developed under separate package, the requisite details shall be provided during detailed engineering. Bidder shall quote as per BPS. |
|  | Cl.no 4.1 | Section Project | Lighting and illumination and and Fire alaram System and Air Conditioning System for Switchyard Panel Rooms.  *We understand earthing, illumination, lightining protection , fire fighting & cabling under present scope will be limited to extension bay area only. We have not envisaged any extension of same to future bays (if any). Please confirm.* | CONFIRMED |
|  | Cl.no 4.1 | Section Project | Extension Of ACDB, MLDB & ELDB,  We understand adequate wired feeder ratings and quanity to cater to extension scope requirement are available in existing ACDB, MLDB and ELDB at Existing 400kV BIKANER- II (EXTN.). Please confirm. | CONFIRMED |
|  | Cl.no 4.1 | Section Project | Battery for 220V & 48V DC System  we have assumed adequate spare capacity in existing 220 and 48V DC system to meet the two new bays requirement. Please confirm. | CONFIRMED |
|  |  | Section project | Clause 4.1b) | Busbar -400kV Bikaner-II.  Since the Busbar protection is part of separate contract, we understand that the required hardware for Busbar (Peripheral unit, in case of Distributed Busbar) and capacity in Centralised Busbar – main relays are already available at site for the present bays under this scope and it is not required to be considered the supply of same. Kindly confirm. | CONFIRMED |
|  | **General** |  |  |  |
|  | General | General | Trench work at Existing 400kV BIKANER- II (EXTN.).  We understand main cable trench between existing bay and existing control room has adequate space to accommodate the extension scope cabling requirement. Please confirm. | CONFIRMED |
|  | Clause no. 6.2, Meteorological data | General | Creepage requirement for insulators shall be 31 mm/ kV (min.).  We understand that the creepage requirement for insulators of all equipments., i.e Bus Post Insulators(for switchyard & Isolator), Circuit Breakers & CVT shall be 31mm/KV. Please confirm. | Confirmed. |
|  | Point No. 50 | Annexure-IV Specific Requirement Rev03\_With Annexures | CVT/PT Supervision in BCU.  As per the clause “Bay control unit shall have inbuilt metering CVT supervision function. It shall have a feature to give alarm in case of CVT/PT metering core fuse fail. We understand that these metering CVT/PT supervision function can be accepted as a part of external/internal feature in the metering circuit. Please confirm. | Bidder to comply the requirement mentioned in the bidding documents. |
|  | Point No. 51 | Annexure-IV Specific Requirement Rev03\_With Annexures | DR/Engg WS  As per the clause “Two nos. Disturbance Recorder/Engineering Workstation where at least one workstation shall have Linux Operating System”. We understand this requirement is for the new Substation and not required for the extension station(s) in this package. Kindly confirm.  While on this, we would inform that our Substation Automation System is an application software running on Windows Operating system with Disturbance recording as a part of the said Application. Since the entire software is designed on Windows platform, request to accept two (02) nos. of DRPC on Windows OS. Additionally, we will propose 01 no. PC with Linux OS installed for Customer use. | Not applicable for extension of substation. |
|  |  | SAS Spec-Rev04 | System Architecture.  The document states tat the data exchange is to be realised using the protocols defined and standardised in the latest edition of IEC61850 with a redundant managed switched Ethernet communication infrastructure.  We understand all the IEDs and Substation Automation System offered in this package shall be on IEC61850, Ed-2 standard only, Please confirm. | Bidder understanding is generally in order. |
|  | Clause no. 3.1 & 4.1 | Section project | SAS – Bhadla-II and Bikaner-II  Kindly indicate the make of SAS, into which the present scope bays are required to be integrated. | Please refer Sl. no 67 in clarification no.-I dated 17.02.2021. |
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|  |  |  | As per layout ONE DIA space (24 mtr) will be provided for BUS SECTIONLIER BAY between ICT-3 & Reactor Dia  ( “Iso+CT+CB+CT+Iso”) whereas minimum requirement of space will be required is 40 meter considering clearance. Please check and confirm (Drg is attached) | Bus Sections bay equipment may be installed in the direction of main bay equipment’s to the bus section in 24mtr space. |
|  |  |  | We understand that there is no dismantling activity involved to making this B/S bay after this B/S bay such as conductor/Tower/Beam/Erection hardware etc, please confirm | Confirmed. However, necessary re-jumpering for connection of the Two sections through the sectionaliser is included in present scope. |