

**CHHATTISGARH STATE POWER TRANSMISSION CO. LTD.**

(A Govt. of Chhattisgarh undertaking) (A successor Company of CSEB)

**OFFICE OF CHIEF ENGINEER (PLANNING & PROJECT)  
CHHATTISGARH STATE POWER TRANSMISSION CO. LTD.  
DAGANIYA, RAIPUR (C.G.) 492 013**

Phone No: 0771- 2574245/ 4214/ 4209

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**TENDER SPECIFICATIONS****TR-20/10**

for

**Construction of 220 KV sub-station Patan****(Up gradation of existing 132/33 KV S/S Patan) on turnkey basis.****(VOLUME –I OF III)****COMMERCIAL PART****DATE & TIME OF PRE-BID CONFERENCE: (TIME 11:30 HRS)****LAST DATE & TIME OF SUBMISSION OF TENDER****DATE 29.12.2020 (TIME 15:00 HRS)****DUE DATE & TIME OF OPENING OF TENDER****DATE 29.12.2020 (TIME 15:30 HRS)****Tender price:****Rs.11,200.00** (if purchased from office of CE (P&P)**Rs.11,800.00** (if downloaded from website)**Website:- [www.cspc.co.in/csptcl](http://www.cspc.co.in/csptcl)**

**OFFICE OF CHIEF ENGINEER (PLANNING & PROJECTS)  
CHHATTISGARH STATE POWER TRANSMISSION CO. LTD.  
DAGANIYA, RAIPUR (C.G.)**

**CONSTRUCTION OF 220/132 KV S/S PATAN  
AT EXISTING 132/33 KV S/S PATAN  
ON TURNKEY BASIS**

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**CHHATTISGARH STATE POWER TRANSMISSION COMPANY  
DANGANIYA: RAIPUR 492 013 (C.G.)**

**TENDER FORM**

**Tender No. TR-20/10 for Construction of 220 KV sub-station Patan  
(Up gradation of existing 132/33 KV S/S Patan) on turnkey basis.**

Tender document SL.No.....

Issued to M/s.....

Cost of Tender documents Rs.....

D.D.No.....Dtd.....

Name of Bank .....

*\* Not required in case tender document is downloaded*

**Signature & Seal of Issuing Authority  
CSPTCL; Raipur**

The undersigned hereby tender and offer (subject to CSPTCL's conditions of tendering), the Chhattisgarh State Power Transmission Company to test and supply, plant, machinery, materials, deliver and execute and do the several works and things which are described or referred to in the enclosures & Annexures to the specification **TR-20/10** copies of which are annexed hereto and which under the terms thereof are to be supplied, executed and done by the contractor in a thoroughly good and workman like manner, and to perform and observe the provisions and agreements or the part of the contract contained in or reasonably to be inferred from the said tender documents for the sum and at the rates set out in schedules annexed hereto.

It is confirmed that:

- (I) Questionnaire for Commercial terms and conditions.
- (II) Questionnaire for Technical specifications of the Equipments, and
- (III) All other conditions wherever described in the tender documents have been replied in full giving clear details. It has been noted that in case any reply is not given or any reply is incomplete/ambiguous the Company will have right to take the same to be advantageous for the Company. Company's decision in this regard will be final. The bidder will have no right to furnish any technical or commercial clarification after opening of the bid which may in any way alter the offered prices.

Dated, this ..... day of .....

**Bidder's Signature**

**Bidder's Add**

**CIN- U40.108CT2003SGC015820**

**GSTIN- 22AADCC5773E1ZX**

**CHHATTISGARH STATE POWER TRANSMISSION CO. LTD.**

(A Govt. of Chhattisgarh undertaking) (A successor Company of CSEB)

**O/o Chief Engineer (Planning & Projects)**

Third floor, SLDC Building, Danganiya, Raipur-492013

Website : [www.cspc.co.in](http://www.cspc.co.in)

Phone 0771-2574245/ 14/ 09

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No. 02-04/NIT/TR-20/10/1308

Raipur/dtd. **02 Dec 2020****NOTICE INVITING TENDER (through E-bidding module of SAP-SRM)**

Sealed tenders are invited from experienced eligible Bidders for the following works on total turnkey basis:-

Sl. No.	Tender No.	Particulars	Cost of Tender Documents (Non-refundable) incl. GST		Earnest money Deposit (EMD)	Due date of opening of tender
			Printed Tender form	E-Tender form online		
1.	TR-20/10 RFx No. 81000 19500	Construction of 220/132KV S/S Patan (up gradation of existing 132/33KV S/S Patan) comprising 2 No. 160MVA, 220/132KV transformers, 5 No. 220KV bays, 4 No. 132KV bays & other works on turnkey basis as per tender specifications.	Rs.11,200/- (if purchased from office of CE (P&P)	Rs. 11,800/- (if downloaded from website)	Rs. 5.00 lacs	<b>29.12.2020</b>

**SCOPE OF WORK:**

- (i) All civil works associated with construction of EHV substation including construction of foundation, cable trench, control room building, water supply arrangement & road etc along with supply of cement, steel and other construction material.
- (ii) All designing & drawing of sub-station including supply of galvanized steel structures as per CSPTCL's design, all equipments/ material including 160 MVA, 220/132/33 KV transformer (except 132KV, 220KV CT& PT) and all other material conforming to relevant I.S.S./ International Standards as per tender specification & as approved by CSPTCL, required for construction of substation.
- (iii) All associated control room activities viz. cable termination, wiring, testing and commissioning and also commissioning of various outdoor equipments including power transformers etc.
- (iv) Supply of testing equipments, T&P, furniture etc.
- (v) Erection, testing, commissioning of individual equipments, energization of complete substation and handing over of the same to CSPTCL complete in all respect and satisfactory conclusion of the contract within the stipulated time limit.
- (vi) The tender will be considered as in-divisible composite works contract in totality.

**NOTE:**

- i) In case any of the above date is declared as holiday, then the particular date will automatically get shifted to next working day.

- ii) Any notice for extension of due date of tender opening shall not be published in newspapers. It will be displayed only on official website of the company.
- iii) The tender will be processed through e-bidding module of SAP-SRM. Bidders are advised to visit our web site [www.cspc.co.in/csptcl](http://www.cspc.co.in/csptcl) for viewing detailed instructions regarding submission of offer through SAP-SRM.

**TERMS AND CONDITIONS:**

- (i) The tender documents can be obtained from the office of the ED/CE (Planning & Projects) in person on payment of cost of tender document in the form of D.D. only made out in the name of 'Manager (RAO : HQ), CSPTCL, Raipur' accompanied with firm's application on its letter head. If tender document is required by post, Rs.280/- (i.e. 250/- + 12% GST) shall be paid by D.D. additionally along with the cost of documents. If more than one tender document is required, separate DDs should be furnished for each tender. CSPTCL shall not be responsible for any postal delay in receipt/ non-receipt of tender documents. No receipt of tender shall be issued in any case.
- (ii) The tender document can also be downloaded from official website of CSPTCL "[www.cspc.co.in](http://www.cspc.co.in)" (go through Chhattisgarh State Power Transmission Co. Ltd. - Tender Notice) and Rs.11,800/- (i.e. Rs.10,000/- + 18% GST) in form of DD in favour of 'Manager (RAO: HQ), CSPTCL, Raipur' payable at Raipur should be submitted along with cost of Earnest Money Deposit (EMD) in separate envelope. The envelope containing DDs towards cost of tender document & EMD should be suitably super scribed "DDs containing cost of tender document and EMD". The details of DDs should be mentioned on the outer side of the envelope also. Please note carefully that in absence of aforesaid requisite tender fee, further bid shall not be considered for opening.
- (iii) Tender documents and the detailed specification can be obtained on any working day one day prior to the due date. The tenders duly filled in shall be dropped/get dropped in the specified tender box up to 15:00 Hrs. on the due date. Any other means of delivery shall not be accepted. No receipt of tender shall be issued in any case. The tender box shall be locked/sealed at 15:00 Hrs. on the due date and shall be opened at 15:30 Hrs. on the same date.
- (iv) After publication of NIT & before the date of opening of TC Bid, corrigendum/ other information (if any) shall be displayed on our official website and in SAP SRM (E-bidding Portal) only. The bidders are requested to remain in contact with this office or visit our web-site for any development/ clarification/ amendment issued subsequently.
- (v) CSPTCL reserves the right to accept or reject any or all the offers, in part or full without assigning any reason whatsoever.

**Website: - [www.cspc.co.in/csptcl](http://www.cspc.co.in/csptcl)**

**Chief Engineer (Planning & Projects)  
C.S. Power Transmission Co. Ltd., Raipur**

## **GENERAL DESCRIPTION OF PROJECT**

The scope of work under this turnkey project covers the following works:-

1. All civil works including design, drawing & construction of foundation, cable trench, control room building extension & renovation ,external water supply arrangements & road etc. along with supply of cement, steel and required material.
2. Supply of galvanised steel structure for equipments, gantry, bus-bar as per design & drawing of CSPTCL & tubular pole/ high mast lighting arrangements.
3. Design and supply of 220/132/33 KV, 160 MVA Transformer, all equipments for 220 KV and 132 KV switchyard (except 132KV, 220KV CT& PT) and control room equipments, control cables etc.
4. Supply of testing equipments, T & P & furniture etc.
5. Erection, Testing, Commissioning and Energization of substation.
6. ***System fault level is 40 KA for 220 KV, 31.5 KA for 132 KV switchyard equipments & 25 KA for 33 KV switchyard equipment. However, the short time current ratings of various equipments have been mentioned in their technical specification and the equipments are to be supplied with the desired STC rating.***

The detailed scope of work associated with this project is brought out in subsequent clause:-

### **A) SUPPLY OF EQUIPMENTS:-**

Supply of all equipments and accessories for 220 KV Substation at existing 132/33 KV sub-station, which includes supply of

- (i) 02 Nos. 160 MVA, 220/132/33 KV auto Transformer,
- (ii) 220 KV equipment viz SF6 Circuit Breakers, CVT, L.A. and Isolators,
- (iii) 132 KV equipment viz SF6 Circuit Breaker, Isolator, L.A. and 33 KV Isolator, station Transformer 33/0.415 KV , 500 KVA
- (iv) 33 KV PT insulation level 72.5 KV, 33 KV Isolator insulation level 72.5 KV and 39 KV LA for tertiary side of 160 MVA, 220/132/33 KV Power Transformer.
- (v) Luminaries,
- (vi) High Mast lights,
- (vii) GI Steel structures,
- (viii) Control & Relay Panels,
- (ix) 110V, 600 AH & 48V,600AH Battery sets,
- (x) 110V, 600 AH & 48V,600AH Battery Chargers,
- (xi) ACDB/DCDB Boards,
- (xii) Marshalling/ Junction box,
- (xiii) Control Cables,
- (xiv) GI Cable trays,
- (xv) ACSR conductor, earth wire.
- (xvi) Hardware, clamps & connectors.
- (xvii) Disc & post insulators,
- (xviii) Earth-mat & earthing material,
- (xix) Testing equipment and T&P,
- (xx) Sub-station automatic data logger system,& SAS
- (xxi) Furniture etc.

Any other equipment/material required for construction of 220 KV Substation at existing 132/33 KV sub-station.



**B) 220 KV SIDE SWITCHYARD: -**

Total of **05 Nos. 220 KV bays** will be constructed as per tentative switchyard plan layout attached with the tender as detailed here under:-

- i) 02 Nos. 220 KV feeder bay with gantry structure, Isolators, CB, CVT and C&R panel etc. (Fully equipped).
- ii) 02 No. 220 KV transformer bay for 160 MVA, 220/132/33 KV Power Transformer (fully equipped).
- iii) 1 No. 220 KV Bus Transfer Bay. (Fully equipped).
- iv) The bus arrangement is for one main bus and one transfer bus scheme. The bus conductor shall be twin zebra ACSR for main bus and single zebra ACSR for transfer bus.
- v) The 220 KV main bus shall be constructed so as to accommodate future transformer bay and feeder bays each.
- vii) 220KV GI structures for gantry and equipments are to be provided as per the design of CSPTCL. The weights in MT of each type of structure have been indicated in **Schedule III-E**. Rates should be accordingly quoted.

**C) 132 KV SIDE SWITCHYARD: -**

Total of **04 Nos.132 KV bays** will be constructed as per tentative switchyard plan layout attached with the tender as detailed here under:-

- i) 02 Nos. 132 KV Feeder Bays with gantry structure, isolators, CB and C&R panel etc. (Fully equipped).
- ii) 02 No. 132 KV transformer incoming bay for 160 MVA Transformer.(Fully equipped)

The 132 KV main bus shall be twin zebra and transfer bus shall be single zebra. Additional 220 & 132KV bays for following shall also be constructed with civil foundations (including foundation bolts), cable trenches, site levelling/ metal spreading, laying earth mat etc and associated structures **but without equipments**

- (a) 1 No. for future 220 KV Feeder Bay
- (b) 1 No. for future 132 KV Feeder Bay
- (c) 1 No. civil foundation only for 160MVA 220/132/33KV X-mer for future

A Tentative switchyard layout plan of substation is enclosed with this tender document showing 132 & 33 KV feeders & transformer bays (incl. future bays) to be constructed.

**All Steel structure shall be as per CSPTCL's design & drawings of structure**

A Tentative switchyard plan layout is enclosed herewith showing all the 220 & 132 KV feeders & transformer bays to be constructed. **All Steel structure should be as per CSPTCL design & drawing of structures.**

Weight of steel structure shall be as per Schedule III-E attached with this tender.

**D) CIVIL WORKS: - The scope of civil works shall be as follows:—**

- i) Control Room Building Extension and renovation, External water supply arrangement including tube well, OH tank,pump & pipe line etc. &complete in all respects as per specifications and direction of Engineer-in-charge of CSPTCL.

- ii) 5.0 metre wide concrete road within the premises of the substation as per the requirement viz. from main gate of the sub-station switch yard to control room and main transformer foundation/ unloading Gantry with roadside (brick type drain) and RCC NP-3 Hume pipe culverts with wing wall & apron of adequate size for draining out storm water of the substation area etc. The approach road shall be laid over W.B.M. coat with proper base course and sub base as per IRC standards. Min. thickness of concrete apron shall be 100 mm thick M-20 grade concrete (1:1.5:3) laid over 100 mm thick P.C.C. (1:3:6) with proper expansion joints and dowel bars etc. as per approved drawing and IRC specifications. In case of B.C. soil/Expansive soil strata well compacted layer of hard muroom of at least 300 mm (compacted thickness) shall be provided below soiling.
- iii) Switchyard levelling up to desired finished yard level with selected top layers comprising 100 mm thick layer of 40 mm hard crusher broken hard metal over underlying layer of sand 100 mm thick (compacted thickness). In case of B.C. soil/expansive soil strata one additional layer of hard muroom 100 mm thick shall be provided below the 100 mm thick layer of sand. Application of approved herbicides in entire yard area as per manufactures' specifications. Disposing/ stacking unwanted/ rejected spoils in the manner and at the location as decided by Engineer-in-charge of CSPTCL.
- iv) RCC Cable trenches suitably designed to take the super imposed loads & adequate inside dimension, concrete coping, concrete base, plastering, weep hole arrangements at suitable intervals angle nosing, chases support MS angle for GI cable tray, RCC covers etc. complete with proper bed slope for efficient drainage in such a manner that all the water falling in the trenches shall be finally collected in a RCC pit of size 3.5m x 3.5m x 4 meter with adequate rain water harvesting and over flow spill channel of adequate size, slope and length up to natural drainage. The main Cable trench shall be covered with **RCC cast in situ slab**.
- v) Foundation of all structure with suitable design as per soil strata at site and as per applicable IS codes.
- vi) Two number 150 mm dia tube wells, each with minimum 5000 litre per hour yield, separate pump houses, two nos. interconnected overhead water tanks of 1000 litre capacity each, above control room building, complete water supply arrangements from both the bores to water tanks, from water tank to Control Room Building and from both the bores as well as from tank to all the earth pits, with submersible pumps, panels, cables, water tanks, GI pipe lines, all fittings, fixtures etc. of approved make as per specifications, in standard manner, as per direction of engineer-in-charge of CSPTCL.
- vii) MS Main gate with RCC pillar with mesh covered decorative lamps on control room entrance side of size 2.4m x 7.5m with wicket gate min. 1500 mm wide and rollers.
- viii) 2.4 mtr high GI chain link mesh yard fencing (size of mesh 75 x 75 x 8 guage) on GI angle posts, GI horizontal angle bracings, six rows of barbed wire (weight 9.38 kg/per 100 RM) on 'V' shape (minimum height 450 mm) GI angle at top of mesh two nos. 4 mm dia. G.I. straining wires equidistant from top and bottom to be tightened by turn buckles at every 25 metres, strainer posts at every corner and at every 10<sup>th</sup> post on both sides of main post as well as one strainer post on inner side also etc. of adequate size, as per approved drawing, as per specifications, in standard manner and as per direction of engineer-in-charge of CSPTCL

- ix) Arrangement of slope protection such as pitching, retaining wall, turfing on slope, drains diversion works etc. due to topography of the site and surrounding area or change in yard level at different points or any other reason, as per direction of Engineer-in-charge.
- x) Construction of earth pits & water supply arrangement for it & pit for rain harvesting.
- xi) Construction of RCC sump tank for collecting transformer burnt oil
- xii) Level survey of sub-station site and adjoining area up to nearest available natural outlet from storm water drain shall be done as directed by Engineer-in-charge.

Complete design and detailed engineering shall be done by the Contractor based on specifications and conceptual drawing of the sub-station attached with the tender document.

Design of sub-station and its associated electrical & civil auxiliary system includes preparation of foundation & cable trench layout, finalizing various levels of S/S on the basis of contour drawing to ensure effective drainage, electrical and physical clearance diagrams. Control and protection schematics, wiring and termination schedules, outdoor lighting/illumination and other relevant drawings & documents required for engineering of all facilities within the fencing to be provided under this contract are covered under the scope of the Contractor.

The Bidders are advised to visit the sub-station site and acquaint & satisfy themselves with its surrounding, topography, condition of soil-strata, infrastructure and means to access the site, prior to submission of offer. The bidders shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges towards visit or otherwise shall be allowed. **Submission of the offer by the bidder implies that he has read the tender document and made himself aware of the scope of the work to done, local conditions and all other factors bearing on execution of the work.**

Any other item which are not specifically mentioned in the bill of quantities/price schedule, but which are required for construction and satisfactory operation of the sub-station are deemed to be included in the scope of the work unless specifically excluded. Such work shall have to be done by the contractor as per clause 4 of GCC and as per approved drawing, specifications and as per direction of engineer-in-charge of CSPTCL.

#### **VARIATION IN QUANTITIES: -**

The quantities of equipments indicated in the schedules/Annexure B-1 to B-10, C-1, D-1 & D-2 are tentative and there may be variations at the time of execution of the work. The contractor shall have to complete the works as per prevailing site and field conditions/requirements/approved drawing/scope of work/specifications and will have to ensure complete supply of equipments, steel structures including civil work etc. and also erection & commissioning of equipment in the sub-station as per the direction of concerned engineer- in-charge of CSPTCL

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## SECTION – I

### **Special instructions to bidders for submission of bid through SAP- SRM module (E-bidding)**

The price bid against tender specification No. **TR- 20/10** is to be processed through e-bidding. For participation in E-bidding, it is mandatory for prospective bidders to get registered online through our website & portal **<http://www.cspc.co.in> & <https://ebidding.cspcl.co.in:50724/irj/portal>**., on registration the bidders will get User ID and Password for participating in the tender.

The techno commercial bid is to be submitted in hard copy whereas the price bid is to be submitted online (E-Bidding portal). Details of NIT & Tender Documents are available on our website and portal as indicated above.

The bidder may download the same from the above site. In e-bidding portal, tender documents will be displayed in online tender display at Technical RFX section (**RFX No. 8100019500**).

**For bidders, it is recommended to open the e-bidding portal by the following the path [www.cspc.co.in](http://www.cspc.co.in)->e-Bidding->"click here for e-Bidding Web portal".**

Last date & time of submission of bid in hard copy and also in softcopy is **29/12/2020 upto 03:00 pm** and due date & time of opening of part -I and part-II of the tender is **29/12/2020 upto 03:30 pm**.

#### **Important Instructions:-**

1. Please note that this tender shall be processed online as well as offline. The bidder has to submit all the documents in hard copy as per tender specifications in four envelopes.
2. **The abstract (total) amount of Annexure from B-1 to B-10, C-1 and D-1 & D-2 are to be filled in the item tab in e-bid in SAP SRM System (online e-tender). Amount should be quoted online & in specified fields only. It is required to upload scanned copy of ONLY price bid SCHEDULES DULY FILLED IN AND SIGNED WITH SEAL OF FIRM IN THE specified FOLDER along with the duly filled excel sheets of price schedules. It may be noted that the bid will not be considered for evaluation in case the bidder has not uploaded the scanned copies of duly filled price Bid annexure with seal & signature of bidder even he submit the summary in E-bidding portal.**

**Discount (if any) offered by the bidder should be filled in the respective field in the SAP SRM system (E-bidding Portal) only. Discount for each of the schedules i.e. B-1 to B-10, C-1, D-1 & D-2 is to be indicated separately in the respective fields. No discount offer shall be considered which is indicated elsewhere for the purpose of evaluation and comparative statement.** Once the rates are filled, the bidders may change their rates upto the due date and time of submission of tender. After due date and time, no change on any ground whatsoever will be accepted.

3. After scrutiny of techno-commercial bid, the price bid will be opened in e-bidding system only of eligible bidders for which suitable intimation will be given to the bidders offline & through email.
4. Please note that e-mail is always system generated, hence bidders are advised to regularly check their inbox/junk mail box.

5. CSPTCL shall not assume any responsibility for non-supporting of system, internet, line & associated hardware & software for bidding their tender. No extension in time shall be granted on such grounds. The bidder should submit their bid well before submission dead line to avoid any system related problem. It is strongly recommended not to wait for submission of bid in last minutes as internet/technical problem may disrupt their works.
6. Reference time for submission dead line shall be the time displayed in the portal and shall be treated as final.
7. After end of submission dead line, no alteration in the tender will be allowed by the system. However, in case of extension of due date of opening of tender, the bidders will be allowed to submit revised bid in the system.
8. CSPTCL will not accept incomplete bid.
9. The bidder must have a valid Digital Signature (class –III digital certificate) to establish the identity of the bidder & SAP SRM User ID. User ID & Password from CSPTCL and Digital Signing Certificate and Digital Encryption Certificate from any recognized digital signature issuing authority are required for participation in any Tender. The bidder shall intimate in advance regarding details of digital signature issuing authority for ensuring the reliability of the same. ***It may please be noted that the tender be submitted with valid digital signature of Lead partner only in case of joint venture/ consortium else the same will not be considered for evaluation.***
10. The e-bidding vendor user manual displayed on website-<https://ebidding.cspcl.co.in:50724/irj/portal> for the help of the bidders. For any further queries the bidder may contact at Helpline No. 0771-2576672/ 73 (EITC, CSPDCL, Raipur).
11. Tender shall be opened in the scheduled time as notified. If the due date of opening/submission of tender documents is declared a holiday by the Govt. or local administration, it will be automatically shifted to next working day for which no prior intimation shall be given. Tender opening shall be continued on subsequent days, in case the opening of all tenders is not completed on due date because of the technical constraints of system on the day of opening. It may be noted that the due date of opening/ time may be altered/ extended if desired by CSPTCL without assigning any reason. However, intimation shall be available on company's tender portal/bidders email (if participation shown). The bidders are requested to keep track of the same.
12. Amendment in tender specification will be published on our website as well as in SRM system and the intimation regarding amendment in date extension will be conveyed through system generated e-mail to registered bidders only.
13. Before participating the bidder shall carefully read all the instructions and processes.
14. Tender duly completed in all respects will be accepted online up to due date & time and will be opened on the due date at specified time in the presence of tenderers or their authorized representatives. In case of authorized representative(s) they shall bring the original authorization letter with their signature attested by the bidder.

**Chief Engineer (P&P)  
CSPTCL: Raipur**

## **INSTRUCTION TO BIDDERS**

- 1.1 Sealed Tenders in duplicate in FOUR envelopes (each complete with all details in the manner specified together with drawings, test reports, descriptive literature if any) and declarations form duly signed by the bidder are to be submitted in the office of the CE (Planning & Projects), CSPTCL, Dangania, Raipur-492 013 (CG) in double sealed cover & super scribed on each of the covers the relevant tender specification number and due date of opening as indicated in “Notice Inviting Tenders”.
- 1.2 This tender consists turnkey project of construction of 220/132/33 KV S/S Patan Raipur.
- 1.3 CSPTCL reserves the right to alter the quantities with respect to materials/equipments/ volume at the time of placing of order.
- 1.4 Tenders will be opened in the office of CE (Planning & Projects), CSPTCL, Raipur in the presence of the bidders or their authorised representatives (limited to maximum two persons with a valid authorisation from their employer). At the time of opening, the techno-commercial bid and other relevant details will be read out. Price bid of successful Techno commercial bidder would be opened at a later date with due information to the successful bidders.
- 1.5 The bidder may deviate from the specification while quoting if in his opinion such deviation is in line with the manufacturer’s standard practice and conducive to a better and more economical offer. All such deviations should however be clearly indicated giving full justifications for such deviations in separate sheet(s) under “Deviations/ Departures” title in Annexure-A-9 & A-10. **It may please be noted that any deviation mentioned elsewhere (other than the prescribed formats of Technical deviation (Format A-9) & Commercial deviation (Format A-10) shall not be considered and shall have no effect.**
- 1.6 Only those who have purchased/downloaded the copy of relevant Specification No. **TR-20/10** can submit their tender. Tenders submitted by others will be rejected. The Tender form duly signed by the bidder with the seal of the company must be furnished with the bid, failing which the tender may be rejected.
- 1.7 CSPTCL reserves the right to reject the lowest or any other tenders or all tenders without assigning any reason what so ever if it is considered expedient in the overall interest of CSPTCL.
- 1.8 The Tenders shall be submitted in **DUPLICATE** in FOUR envelopes and should be enclosed in sealed cover both addressed to the CE (Planning & Projects), CSPTCL, Dangania, Raipur. Both inner and outer cover should be sealed and super scribed with tender specification No. **TR- 20/10** and date of opening.
  - 1) Envelope No.1 should contain a covering letter with EMD & cost of tender document (if tender document is downloaded from the website).
  - 2) Envelope No. 2 shall contain the original and duplicate copy of documents in support of PQR, along with Pre-contract Integrity pact (for entire project).
  - 3) Envelope No.3 shall contain the technical & commercial parts of the specification with Annexure A-1 to A-22, A-25 & **Un-priced Annexures B-1 to B-10, C-1, D-1 & D-2** complete in all respect in duplicate copy.
  - 4) Envelope No.4 should contain all the above three envelopes.

No other envelope apart from above mentioned envelope shall be entertained.

The tender should be dropped in specified tender box, kept at the office of the Chief Engineer (Planning & Projects), CSPTCL, Raipur before due date and time of submission of tender or by post / courier. No receipt will be issued for tender received through post / courier. It is responsibility of bidder to drop / get dropped the tender in respective tender box. Any other means of delivery shall not be accepted. The tender box shall be locked / sealed at 15.00 hrs of due date and offers received after will not be accepted.

- 1.9 Tenders received after due date and time shall be returned without being opened.
- 1.10 FAX or E-mail tenders shall not be accepted under any circumstances.
- 1.11 The submitted offer by the bidders should contain page numbers along with Index.
- 1.12 **Discount (if any) offered by the bidder should be indicated in E- bidding portal only. No discount offer shall be considered which is given elsewhere for evaluation and comparative statement.**
- 1.13 **EXTREMELY IMPORTANT : “Bidders to note this to avoid bid rejection”**

**It will be the sole responsibility of the sole bidder/ partners of joint venture (JV)/ consortium bidder to make sure that all the documents required as per tender are submitted along with bid on or before due date of tender. The bid submission date is cut-off date of submission of all the documents required as per tender and every bidder must adhere to this dead line. No additional documents will be allowed after bid submission. However, CSPTCL may seek clarifications/ confirmations or compliances of tender requirement in documents already submitted with the bid.**

**If a bidder has quoted ‘NIL’ deviations in annexure A-9 (Deviation from technical specification/ condition) and Annexure A-10 (Deviation from commercial conditions), this will have an overriding effect on any other conditions noted as deviations elsewhere in the bid.**

**Please note that in case of any of the required document is not submitted along with the bid, the bid will be rejected without any further correspondence in the matter.**

- 1.14 **CHECK LIST:** The check list (Annexure A-27) in respect of various documents/ schedules in respect of PQR is required to be submitted by the bidder without which the tender will be considered incomplete and liable for rejection. The bidder should submit all schedules duly filled in along with this offer.

**(2) EARNEST MONEY DEPOSIT:**

- 2.1 The tender shall be accompanied by Earnest Money Deposit of **Rs.5.00 lakh** (Rs. Five Lakh) only. The Earnest Money Deposit shall be offered in the form of demand draft, subject to conditions mentioned below:-
  - i. Bank Draft to be drawn in favour of ‘Manager (RAO: HQ), CSPTCL, Raipur (CG)’.
  - ii. No interest shall be paid on Earnest Money Deposit.
  - iii. No adjustment towards Earnest Money Deposit shall be permitted against any outstanding amount with CSPTCL.
  - iv. In the case of unsuccessful bidder, the Earnest Money will be refunded after finalization of tender. In case of successful bidder Earnest Money will be refunded only after furnishing Bank Guarantee against security deposit & its acceptance.

- v. Earnest Money will be forfeited if the bidder fails to accept the letter of intent and / or work order(s) issued in his favour.
- vi. Tenders not accompanied by Earnest Money shall be disqualified.
- vii. Cost of tender document is non refundable.

## 2.2 **FORFEITURE OF EARNEST MONEY:-**

The Bid security is required to protect the CSPTCL against the risk of Bidder's conduct, which would warrant the Earnest Money's forfeiture, due to following reasons:

- a) If a Bidder withdraws his Bid during the period of Bid validity specified.
- b) In the event of refusal to accept the Letter of Intent issued by the CSPTCL within the validity period.
- c) In the case of a successful bidder, if he fails to sign the various agreements and fails to furnish Security Deposit as specified in the Tender Specification. The successful bidder's Earnest Money will be released only after the execution of various Agreements and Security deposit by the bidder (as specified in this tender Specification).

2.3 Cost of tender document is not refundable.

2.4 Fully owned Under Taking of the State Govt. / Central Govt. e.g. BHEL etc. are exempted from furnishing the EMD as per rules on furnishing documentary proof.

2.5 **VALIDITY:** The tenders should be kept valid for a period of **180 days** from the date of opening of the tenders as notified in the tender notice and subsequent amendment thereof, failing which the tenders will be rejected.

2.6 Bidders are expected to be fully conversant with the meaning of all the clauses of the specifications before submitting their tenders. In case of doubt regarding the meaning of any clause, the bidder may ask for clarification in writing from the office of Chief Engineer (Planning & Projects), CSPTCL, Raipur that must reach at least 15 days before the scheduled date of opening of tender or at least three days before the scheduled date of pre bid conference. This however, does not entitle the bidder to ask for time extension beyond due date of opening of the tender.

## 3. **PRE-QUALIFYING REQUIREMENTS:-**

The bidder should comply the following requirements along with the offer:-

### 3.1 **Financial criteria:-**

- i) **Net Worth:** Net Worth of the sole bidder/each partner of joint venture (JV)/ consortium for the last three Financial Years (2017-18, 2018-19 & 2019-20) should be positive.

**In case audited annual accounts for FY 2019-20 are not available; net worth as per audited annual accounts of previous three years i.e. 2016-17, 2017-18 & 2018-19 shall be considered for above criteria and for this, the bidder shall submit the self declaration countersigned by CA regarding non-availability of audited annual accounts for FY 2019-20.**

Net worth means the sum total of the paid up capital and free reserves (excluding reserves created out of revaluation) reduced by aggregate value of accumulated losses (including debit balance in profit and loss account for current year) and intangible assets.



- ii) **MAAT:** The sole bidder / partners of joint venture (JV)/consortium collectively must have minimum average annual turnover (MAAT) for best 3 years out of last 5 years (2015-16, 2016-17, 2017-18, 2018-19 & 2019-20) equal to **Rs.31.90 Cr. Self-attested copies (i.e. copies attested by authorised signatory of the tender) of the audited annual account** for last 5 years of sole bidder/each of the partners of the joint venture should be furnished in support, duly certified by chartered accountants of the firm. For calculation of turnover, other income indicated in balance sheet shall not be taken into account.

*In case audited annual accounts for FY 2019-20 are not available; net worth as per audited annual accounts of previous three years i.e.2016-17, 2017-18 & 2018-19 shall be considered for above criteria and for this, the bidder shall submit the self declaration countersigned by CA regarding non-availability of audited annual accounts for FY 2019-20.*

In case of joint venture/consortium, the lead partner should meet not less than **Rs.19.14 Cr.** of minimum financial criteria regarding turn over requirement. The other partner should meet not less than **Rs.7.98 Cr.** of minimum financial criteria regarding turn over requirement. Both the partners of joint venture/consortium shall collectively meet the minimum financial criteria.

- (iii) **LIQUID ASSETTS:-**

The bidders (sole bidder/members of joint venture collectively) shall currently have liquid assets (LA) or / and evidence of access to or availability of credit facilities of not less than **Rs.5.32 Cr.**

A certificate from Chartered Accountant in original indicating details (break up) of available liquid assets should be furnished in support of this.

*Liquid assets would include cash (and equivalents), bank deposits, securities that can be freely traded and receivables which has general certainty of getting received.*

As regards certificate pertaining to evidence of access to or availability of credit facilities, a certificate from their banker(s) {as per Annexure-A-7} indicating various fund based / non fund based limits sanctioned to the bidder/ JV partners and the extent of utilization as on date should be furnished. Wherever necessary, CSPTCL may make queries with the bidder's banker. **Such certificates should have been issued not earlier than 3 months prior to the date of bid opening.**

In case bidder is a holding company, the Financial Position criteria referred above (i.e., Networth, MAAT & LA), shall be that of holding company only (i.e. excluding its subsidiary/ group companies)

In case bidder is a subsidiary of a holding company, the Financial Position criteria referred above, shall be that of subsidiary company only (i.e. excluding its holding company).

**Note: For the instant tender, the turnover of last 5 financial years i.e. 2015-16, 2016-17, 2017-18, 2018-19 and 2019-20 shall be considered for calculation.**

*In case audited annual accounts for FY 2019-20 are not available; net worth as per audited annual accounts of previous three years i.e.2016-17, 2017-18 & 2018-19 shall be considered for above criteria and for this, the bidder shall submit the self declaration countersigned by CA regarding non-availability of audited annual accounts for FY 2019-20.*

- (iv) The sole bidder/ Lead partner (**not more than 2 firms**) as well as other partner of the joint venture (JV) shall submit certificates (in original as per prescribed annexure A-28) issued by CA confirming fulfilment of following criteria:
- a) The sole bidder/ Lead partner as well as other partner of joint venture (JV) should have discharged all its payment obligations (principal/interest) on outstanding debentures (i.e. debentures which have not yet been redeemed), if any and no such payments as on **30.09.2020** should be outstanding/ overdue.
  - b) The sole bidder/ Lead partner as well as other partner of joint venture (JV) should not be presently in default in payment of any bank loan or interest thereon for more than three months or any loan account of the bidder should not have been classified as NPA (Non performing assets) by the creditor/ lending bank, as on date of issue of NIT.
  - c) ***The sole bidder/ each partner of JV should not be under process of insolvency or liquidation as on the date of issue of NIT. Even if at a later date up to date of opening of price bid against the instant tender if it comes to the notice of CSPTCL that the sole bidder/ any partner of JV has been going through the process of insolvency or liquidation, their bid will be rejected.***
- v) The sole bidder/each partner of JV should not be debarred/ blacklisted by Bank/State Govt/Central Govt/State PSU/CPSU/SEB/public utility as on date of issue of NIT. A declaration in this regard (as per prescribed annexure A-29) shall be furnished by the sole bidder/ each partner of JV (separately).

However, the bid may not be considered for further processing in following cases also:

- i) If sole bidder/ any partner of joint venture (JV) is debarred/ blacklisted by Bank/State Govt/Central Govt./State PSU/CPSU/SEB/public utility up to date of opening of price bid of the instant tender.
  - ii) If a case comes to notice regarding submission of forged / fake document in any other tender under process in CSPTCL, up to date of opening of price bid against the instant tender.
- vi) All the documents / statements / attachments / information submitted by the sole bidder/each partners of joint venture (JV) in proof of the qualifying requirements must be authentic / genuine /correct and in case, any of the said documents / statements / attachments / information is found to be false / fake / misleading, the bidder will be disqualified and action will be taken against the bidder as per relevant provision of the tender. A declaration in this regard (as per prescribed annexure A-29) shall be furnished by the sole bidder/each partner of JV (*separately*).

### 3.2 TECHNICAL EXPERIENCE CRITERIA OF PQR:-

***Bidders are requested to carefully note the Pre-qualificaion requiremet mentioned hereunder in respect of technical experience capability. They are required to furnish self-attested documentary proof in support of having the following Pre-qualifying Requirement (PQR).***

**Project Capability: - Technical experience criteria:-**

S.No.	Voltage Class	Sole bidder/lead partner in case of JV	Other partner (in case of JV)
1	220 KV	<p><b>Project capability:</b></p> <p><b>(A) Sole bidder/lead partner in case of JV</b>  The sole bidder/ lead partner of JV should have constructed and commissioned at least following EHV Substation on turnkey basis during last five financial years i.e. FY 2015-16 to 2019-20 (between 1<sup>st</sup>April 2015 &amp; 31<sup>st</sup> March 2020) against orders issued by following Indian entities:</p> <p>(i) Power utilities owned and controlled by Central or State Govt. <b>or</b>  (ii) PSUs <b>or</b>  (iii) Govt. Organizations</p> <ul style="list-style-type: none"> <li>• 1 (One) No. 220KV (or above voltage class) substation on turnkey basis (with or without supply of power transformer). The date of order should not be older than 7 years from the date of issue of NIT of the instant tender.</li> </ul> <p style="text-align: center;">and</p> <p>The above substation should be in successful operation for minimum 1(one) year from the date of commissioning as on date of issues of NIT of the instant tender.</p> <p>In case of JV of instant tender, the experience of lead partner should be either as a sole bidder/ lead partner.</p> <p>The bidder shall submit</p>	<p><b>(B) Other partner (in case of JV):</b></p> <p>In case of JV/ consortium, the other partner of JV/ consortium should have constructed &amp; commissioned minimum 1 No. Bay (either transformer or feeder bay) of 132KV voltage level or higher class on turnkey basis in any following Indian entities:</p> <p>(i) Power utilities owned and controlled by Central or State Govt. <b>or</b>  (ii) PSUs <b>or</b>  (iii) Govt. organizations</p> <p>(with or without supply of power transformer in case of transformer bay) during last five financial years i.e. FY 2015-16 to 2019-20 (between 1<sup>st</sup>April 2015 &amp; 31<sup>st</sup> March 2020). The date of order should not be older than 7 years from the date of issue of NIT.</p> <p style="text-align: center;">and</p> <p>The bay constructed and commissioned against the submitted order should be in successful operation for minimum 1 (one) year from the date of commissioning as on date of issues of NIT of the instant tender.</p> <p>The experience of other partner should be either as a sole bidder or any partner of JV.</p> <p>The bidder shall submit</p>

		<p>complete detailed order copies &amp; Performance certificate of corresponding work order (for which work order has been furnished) for satisfactory operation of sub-station issued from the entities mentioned in (i), (ii) &amp; (iii) above in the name of participating bidder, indicating date of commencement of work and it's commissioning.</p> <p>The word "Commissioning" shall mean energization of Sub-station duly certified by above entities.</p>	<p>complete detailed order copies &amp; Performance certificate of corresponding work order (for which work order has been furnished) for satisfactory operation of 01 No. bay issued from the entities mentioned in (i), (ii) &amp; (iii) above in the name of participating bidder, indicating date of commencement of work and it's commissioning.</p> <p>The word "Commissioning" shall mean energization of bay duly certified by above entities.</p> <p><u>Note :-</u> Bidders may note that evaluation of various pre-qualifying experience criteria shall be done on the basis of documents / certificates submitted by the bidder, for which responsibility to furnish essential authentic, genuine &amp; correct documentary proof/ statement attachments/ information etc., entirely rests on the participating bidder(s). CSPTCL will not be responsible if the bid is considered non-responsive and rejected in the absence of such documentary proof.</p>
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***The bidder shall submit complete detailed order copies along with annexures and corresponding Performance certificate for satisfactory operation of sub-station issued from the Power Utilities or User Agencies in the name of participating bidder, indicating date of commencement of work and it's commissioning.***

***The word "Commissioning" shall mean complete energization of Sub-station as per its tender supply order which must be duly certified by concerned power utility.***

- 3.3 PRE-CONTRACT INTEGRITY PACT:** The bidder shall have to submit pre contract integrity pact in the format enclosed as Annexure A-22 on non-judicial stamp paper worth Rs.300/- duly signed by the bidder for the project along with techno commercial bid. The validity of this integrity pact shall be from the date of its signing and extended up to 2 years or the complete execution of the contract to the satisfaction of both the

Buyer and the Bidder/Seller, whichever is later. In case Bidder is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

Although details presented in this tender specification have been compiled with all reasonable care, it is the responsibility of the bidder to satisfy himself that the information given in each section are adequate and there are no conflicts between various clauses/sections/specifications. The clarification/decision of the Executive Director/ Chief Engineer (Planning & Projects), CSPTCL, Raipur shall be final and conclusive. Although details presented in this tender specification have been compiled with all reasonable care, it is the responsibility of the bidder to satisfy himself that the information given in each section are adequate and there are no conflicts between various clauses/sections/specifications. The clarification/decision of the Executive Director/ Chief Engineer (Planning & Projects) shall be final and conclusive

#### **4. OTHER ELIGIBILITY CRITERIA:-**

- i) **Sole bidder or joint venture / consortium (not more than 2 firms)** shall be eligible to participate in the tender.
- ii) The sole bidder / lead partner of the joint venture / consortium should submit a certified copy of 'A' class electrical contractor license issued by C.G. Anugyapan Mandal /CG State licensing Board along with his offer and the license should be valid as on the date of opening of tender OR the bidder shall furnish an Undertaking to submit 'A' class electrical contractor license issued by C.G. Anugyapan Mandal / CG State licensing Board within 30 days after issue of Letter of Award (LOA).
- iii) The sole bidder/lead partner of the joint venture/consortium should have EPF code number allotted by EPF Commissioner and a copy of registration certificate should be submitted along with the T/C Bid.
- iv) The sole bidder/joint venture or consortium partners should collectively have adequate tools & plants, financial and technical resources and infrastructure backed with qualified agencies to execute the work properly and expeditiously within the specified time frame.
- v) Power of attorney issued to legally authorized signatory should be submitted in the TC bid.
- vi) Those bidders which are not registered under GST shall not be allowed to participate in the tender
- vii) Detailed information on any litigation or arbitration arising out of contracts completed or under execution by it over the last five years (***counted from the date of bid submission***) shall be provided in Annexure A-12. A consistent history of awards involving litigation against the bidder or any partner of JV may result in rejection of bid.

**In case of Joint Venture (JV)/Consortium, the following conditions shall also apply:-**

- (i) No bidder/ member of a JV/ consortium can participate in more than one bid.
- (ii) One of the partners shall be nominated as lead partner and the joint venture/ consortium shall be represented by Lead Partner. An agreement for authorizing one partner to act as "Lead partner" in Annexure A-21 (Form of Power of attorney for Joint Venture) signed by legally authorized signatories of both the partners on nonjudicial stamp paper duly attested by Public Notary with seal and

revenue stamp affixed thereon should be submitted with the technical bid. The “Lead Partner” shall be authorized to incur liabilities and receive instructions for and on behalf of any and all partners of the Joint Venture/Consortium. The “lead partner” shall be responsible for timely execution & completion of all the activities. Entire execution of the contract shall be done by the “Lead Partner” and payment under the contract shall be received by the “Lead Partner” on behalf of the Joint Venture/Consortium as per power conferred to him in the Power of Attorney. All the correspondences etc, shall be done exclusively with the “lead partner”. The bid document should have been purchased and submitted by the “Lead Partner” only.

- (iii) The partners of the Joint Venture/ Consortium shall be liable jointly and severally for the execution of the contract in accordance with the contract terms and a statement to this effect shall be included in the authorization mentioned under (ii) above as well as in the Bid Form and in the Contract Form (in case of a successful bid). The lead partner shall be authorized to incur liabilities and receive instructions for and on behalf of all the members.
- (iv) The agreement entered into, signed by the Joint Venture/ Consortium partners shall be submitted with the bid. Original copy of JV Undertaking in proforma A-20 (form of undertaking by the Joint Venture Partners) on non-judicial stamp paper duly attested by Public Notary with seal and revenue stamp affixed thereon indicating joint and several liabilities among the parties to the Joint Venture should be provided with the bid. No joint venture will be accepted after submission of the tender bid. The joint venture/ consortium shall remain valid for entire contractual period and the same shall be mentioned in the agreement. In case of any breach of contract by any of the joint venture/ consortium partners during execution of the contract, the same shall be deemed to be default by both the partners. It will be the sole discretion of CSPTCL to allow the other partner to complete the work or to terminate the total contract.
- (v) The bid shall be signed so as to be legally binding upon both the partners of the joint venture/ consortium. The non-judicial stamp paper shall be purchased in the name of joint venture and the date of purchase should not be later than six months of date of execution of the undertaking/ agreement. The undertaking/ agreement shall be signed on all the pages by authorized representatives of each of the partners and should invariably be witnessed.

The bidders are required to submit tenders in the manner described in following clauses. All documents / information as per Annexure, schedules and formats enclosed in Volume –I of this tender document and as described below shall be placed in a sealed envelope containing four separate sealed envelopes as mentioned below.

In certain cases confusion takes place regarding furnishing of Earnest Money Deposit since the Envelopes are not properly super-scribed and sealed by the bidder. It is therefore, intimated that envelopes shall be submitted by bidders as under:-

- a) **Envelope-I:** This envelope should contain a covering letter (in company’s letterhead) with earnest money deposit (EMD) in the form of Demand Draft and cost of tender document. The cover of envelope should be suitably super-scribed with details of EMD and cost of tender document. The envelope should be sealed properly.

- b) **Envelope-II:** This envelope should contain the documents meeting the Pre-Qualifying Requirements (PQR). The Main documents to be furnished should be:-

(A). **Documents for PQR:-**

- (i) Self attested copies (i.e. copies attested by authorised signatory of the tender) of audited annual accounts for last 5 financial years (i.e. FY 2015-16 to FY 2019-20).

***In case where audited annual accounts for FY 2019-20 are not available; a self declaration to this effect countersigned by a practicing Chartered Accountant needs to be attached and in such cases audited annual accounts for FY 2014-15 to 2018-19 shall be considered.***

A statement showing 'Annual Turnover' for the last five financial years (i.e. FY 2015-16, 2016-17, 2017-18, 2018-19 & 2019-20) & 'Net worth' including assets and liability of the sole bidder/lead partner of JV as well as for the other partner of JV, duly certified by chartered accountant for the last 3 financial years (i.e. FY 2017-18, 2018-19 & 2019-20) shall be furnished.

- (ii) A certificate of Chartered Accountant in original indicating details (break-up) of available liquid assets (LA) in respect of sole bidder/lead partner of JV and also other partner of JV should be furnished in support of this. Such certificates should have been issued not earlier than three months prior to the date of bid opening.

The bidder shall also furnish certificate (in original) from their banker(s) (as per prescribed annexure A-7) indicating various fund based /non fund based limits sanctioned to the bidder/ JV partners and the extent of utilization, issued not earlier than three months prior to date of bid opening.

- (iii) The bidder/JV partner shall submit certificates (in original) as per prescribed (Annexure A-28 ) issued by Chartered Accountant, confirming fulfilment of following criteria:

- a) The sole bidder/Lead partner as well as other partner of the joint venture should have discharged all its payment obligations (principal / Interest) on outstanding debentures (i.e. debentures which have not yet been redeemed) if any and no such payment as on dtd. **30.09.2020** should be outstanding / overdue.
- b) The sole bidder/Lead partner as well as other partner of the joint venture should not be presently in default in payment of any bank loan or interest thereon for more than three months or any loan account of the bidder should not have been classified as NPA (Non performing assets) by the creditor/ lending bank as on date of issue of NIT.
- c) ***The sole bidder/ each partner of JV should not be under process of insolvency or liquidation as on the date of issue of NIT. Even if at a later date up to the date of opening of price bid against the instant tender if it comes to the notice of CSPTCL that the sole bidder/ any partner of JV has been going through the process of insolvency or liquidation, their bid will be rejected and action will be taken against the bidder as per relevant provisions of the tender.***

This certificate shall be submitted by sole bidder / Lead partner as well as other partner of the joint venture.

- (iv) A declaration by the sole bidder/lead partner of JV as well as other partner of JV (separately as prescribed in annexure A-29) that their firm is not debarred / black-

listed by Bank / State Govt. / Central Govt. / State PSU / CPSU / SEB / Public utility as on date of issue of NIT and in case any of the documents / statements / attachments / information are found to be false / fake / misleading, the bidder will be disqualified and action will be taken against the bidder as per relevant provisions of the tender.

(v) A declaration by the sole bidder/lead partner of JV as well as other partner of JV (separately as per prescribed annexure A-29) that all the documents / statements / attachments / information submitted by the bidder in proof of the qualifying requirements are authentic / genuine / correct and in case any of the said documents / statements / attachments / information are found to be false / fake / misleading, the bidder will be disqualified and action will be taken against the bidder as per relevant provisions of the tender.

(vi) Following documents fulfilling the “Technical experience criteria of PQR”:-

(a) **For sole bidder/lead partner in case of JV:** Complete detailed order copy (self attested by authorised signatory of the tender), in support of technical experience criteria of PQR for having constructed & commissioned minimum 1 (one) No. 220 KV (or above voltage class) Sub-station on turnkey basis (with or without supply of power transformer) during last 5 years i.e. FY 2015-16 to FY 2019-20 (between 1<sup>st</sup> Apl’2015 & 31<sup>st</sup> March’2020) *against order issued by Power Utilities owned and controlled by central or State Govt. or PSU’s or Govt. organization* - Complete order copy along with annexure containing bill of quantity/ scope of work etc shall be invariably submitted in support of technical experience criteria of PQR. The date of order should not be older than 7 years from the date of issue of NIT of the instant tender.

(b) **For other partner in case of JV :** Complete detailed order copy (self attested by authorised signatory of the tender), in support of technical experience criteria of PQR for having **constructed & commissioned minimum 1 No. Bay (either transformer or feeder bay)** of 132KV voltage level or higher class on turnkey basis during last 5 years i.e. FY 2015-16 to FY 2019-20 (between 1<sup>st</sup> Apl’2015 & 31<sup>st</sup> March’2020) *against order issued by Power Utilities owned and controlled by central or State Govt. or PSU’s or Govt. organization* - Complete order copy along with annexure containing bill of quantity/ scope of work etc shall be invariably submitted in support of technical experience criteria of PQR. The date of order should not be older than 7 years from the date of issue of NIT of the instant tender.

(c) **The sole bidder/ both partners of JV shall submit:** Self attested copy (by authorised signatory of the tender) of performance certificate of corresponding work order (for which orders have been furnished) for successful commissioning & satisfactory operation of the above 1 (one) No. sub-station/ bay (as applicable) for a period of at least one year (from the date of commissioning) as on the date of issue of NIT of instant tender, indicating date of commencement of work and date of commissioning of the sub-station/ bay, duly issued by the concerned Power Utilities owned and controlled by Central or state Govt. or PSUs or Govt. organizations in the name of participating bidder.

**(B) Requirement for other eligibility criteria:-**

(i) Copy of Valid ‘A’ class Electrical Contractor License issued by CG anugyapan Mandal/ CG state licensing board in the name of sole bidder / **lead partner** of the



joint venture/ consortium **or** an undertaking to submit 'A' class electrical contractor license issued by C.G. AnugyapanMandal / CG State licensing Board within 30 days after issue of LOA, by the sole bidder or lead partner of the joint venture/ consortium.

- (ii) Copy of EPF code number/ EPF registration No. allotted by EPF Commissioner in the name of the sole bidder / **lead partner** of the joint venture / consortium.
- (iii) **Pre-contract Integrity pact** in prescribed format in Annexure A-22 on non judicial stamp paper worth Rs.300/- duly signed by legally authorized signatory of sole bidder or lead partner of the joint venture/consortium.
- (iv) Bidder shall enter deviations /departures (if any) from the technical specification/ commercial conditions of contract clearly indicated giving full justifications for such deviations in separate sheet(s) under "Deviations/Departures" title in annexure A-9 & A-10 respectively.
- (v) In case of JV, anUndertaking entered into, signed by the Joint Venture/Consortium partners, in proforma A-20 (form of undertaking by the Joint Venture Partners) on Non-judicial stamp paper worth Rs.100/- duly attested by Public Notary with seal and Rs.1/- revenue stamp affixed thereon indicating joint and several liabilities among both the parties in case of Joint Venture/Consortium.

The non-judicial stamp paper shall be purchased in the name of Joint Venture and the date of purchase should not be later than six months of date of execution of the Undertaking. The Undertaking shall be signed on all the pages by the authorized representatives of each of the partners and should invariably be witnessed.

- (vi) In case of JV, an agreement for authorizing one partner to act as "Lead partner" in proforma A-21 (form of power of attorney for Joint Venture) signed by legally authorized signatories of both the partners on non-judicial stamp paper worth Rs.100/- duly attested by Public Notary with seal and Rs.1/- revenue stamp affixed thereon in case of Joint Venture/Consortium.

The non-judicial stamp paper shall be purchased in the name of Joint Venture and the date of purchase should not be later than six months of date of execution of the Agreement. The Agreement shall be signed on all the pages by the authorized representatives of each of the partners and should invariably be witnessed.

- (vii) Power of attorney issued to legally authorized signatory should be submitted with the TC bid.
- (viii) Bidder shall also furnish undertakings (as prescribed in Annexure A-4 & Annexure A-5) in support that the bidder has adequate sub-station design infrastructure, erection facilities, capacity & procedures including quality control.
- (ix) Detailed information on any litigation or arbitration arising out of contracts completed or under execution by it over the last five financial years (counted from the date of bid submission) shall be furnished in prescribed Annexure A-12 by sole bidder/ Lead Partner as well as other partner of the JV.
- (x) **Vital document to be submitted with the T/C bid:** - Duly filled in "Check List" in Annexure A-27 and "Questionnaire" in Annexure A-3 attached with this tender document, indicating Name of organisation with address, turn over details, guaranteed losses of offered transformer and capacitor bank etc. The losses should

not exceed the permissible limit specified at clause 5.2.1 of section-I (B) of Volume-II of this tender document under technical specification of transformer. In case any of the offered losses (i.e. no load loss, load loss or auxiliary loss) quoted by the bidder is more than the maximum permissible limits or not quoted in Annex. A-3, the bid shall be considered as non-responsive and shall be out rightly rejected without any correspondence in the matter.

- c) **Envelope-III:** This envelope should contain the Technical Bid and Commercial Bid complete in all respects in duplicate. The bidders are requested to invariably furnish all the **Un-priced price bid schedules** B-1 to B-10, C-1, D-1 & D-2 to assess the quantities being offered.

For evaluation of techno-commercial bid, duly filled in **Annex. A-1 to Annex.A-13** shall be furnished by the bidder.

- d) **Envelope-IV:** This large envelope should contain all the above THREE envelopes. In case above instructions are not followed properly and any of the envelope of the bidder is not available for inspection on opening, no representation at the time of tender opening shall be accepted and such offers shall not be opened. The large envelope should be properly superscribed with Tender No., Due Date & Name of Project in Bold & should bear complete address of the Bidder.

**It may be noted that in no case the request for return of offer/ bid, dropped in the tender box shall be considered.**

- e) For submission of online price bis, may please refer the “Special Insstuctions to bidders for submission of bid through SAP-SRM Module (E-bidding)” annexed with this tender document.

**The bidders are required to submit the Summaries of the prices bid annexures {B-1 to B-10 (supply), C-1 (civil works), D-1 (Erection charges) & D-2 (Testing & Commissioning charges)} in E-bidding portal and to upload these schedules in form of excel sheets as well as the scanned copies of all these annexure duly filled in & signed by the bidder. It may be noted that the bid will not be considered for evaluation in case the bidder has not uploaded the scanned copies of duly filled price Bid annexures with seal & signature of bidder even he submit the summary in E-bidding portal.**

## **5. PRICE-BID & ITS EVALUATION :-**

Bidders must quote their price in accordance with the specifications and conditions. Any deviation from the above shall be considered as an alternate bid. The bids will be evaluated based on the main offer only.

Price Part of only those Bidders shall be opened on-line who are determined as having submitted substantially responsive bids and are ascertained to be qualified to satisfactorily perform the Contract. Such Bidders shall be intimated about the date and time for opening of Price Part by the Employer.

The Employer will on-line open Price Bid at the specified time and date in the presence of bidders’ designated representatives who choose to attend, at the time, date, and location stipulated in the intimation for opening of price bid. The bidders’ representatives who are present shall sign a register evidencing their attendance.

The bidders’ names, the Bid Prices or any discounts, and any such other details as the Employer may consider appropriate, will be announced by the Employer at the

opening. The prices and details as may be read out during the bid opening and recorded in the Bid Opening Statement would not be construed to determine the relative ranking amongst the Bidders, or the successful Bidder, and would not confer any right or claim whatsoever on any Bidder. The successful Bidder (also referred to as the L1 Bidder) shall be determined as per the provisions of this evaluation criterion.

The Employer shall prepare minutes of the bid opening, including the information disclosed to those present who present at the time of opening.

Bids not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances.

- i. In the event of noticing arithmetical errors viz. multiplication of price & quantity, grand total of total amount etc. these shall be corrected and computation shall be done accordingly.
- ii. **The quoted price should be kept valid for the contractual period/ completion of the project. However the provision of price variation shall be applicable as per the relevant clause of the tender.**
- iii. All columns shall be completely filled up properly.
- iv. No conditional prices should be quoted.
- v. The evaluation of price bids shall be done by comparing the Grand total (i.e. Total of all the price bid annexures) quoted by the bidder in price schedule Annex-B, B-1 to B-10, C-1, D-1 & D-2 of all the items including GST & levies. Based on the comparative evaluation, LOA shall be placed on the L-1 bidder (lowest quoted price for entire project) on the final accepted price.
- vi. **The loading of the items for which the prices are not being quoted by bidder: - In such cases, loading will be done at highest prices quoted amongst the participating bidder. But, while ordering, lowest price amongst the bidders will be considered.**
- vii. If the quantity quoted is less than B.O.Q. /or required for turnkey completion of the job, loading will be done on the pro-rata basis.
- viii. In case the bidder makes contradictory statement in the Technical & Commercial Bid or for items for which the prices are not being quoted by bidders, loading will be done at highest prices quoted among the participated tenderers. But, while ordering, lowest price among the bidders will be offered.
- ix. All the equipments/material, accessories, including charges for erection & commissioning etc required for construction & commissioning of Sub-station have been included in the price schedule i.e. B-1 to B-10, C-1, D-1 & D-2. If there is discrepancy between the Unit Price and the total price that is obtained by multiplying the unit price & Quantity, the Unit Price shall prevail and total price shall be corrected accordingly. Further incase there is discrepancy observed in the abstract of rate submitted in E-bidding portal, Excel sheets of price bid annexure uploaded in portal and Scanned copies of price bid annexure duly signed by bidders, the unit rates offered in the scanned copies of price bid annexures shall be prevailing.

For price bid evaluation, the losses of Power Transformers shall be quoted by the bidder in Annexure A-3 (Questionnaire) shall be taken in to account. The losses of 160 MVA Power Transformer shall be within range.

**x. Permissible range and Capitalisation of Losses of Power Transformers:-**

The capitalisation of losses in case of power transformers will be worked out on differential loss basis as mentioned below, this shall be loaded on the total cost of the substation for price bid evaluation purpose

**(i) Permissible losses of 160 MVA, 220/132/33 KV Power transformer :**

The losses of transformers should be within the range of prescribed below for respective losses (without and positive tolerance):

S.N.	Particular	160MVA, 220/132/33 KV Power transformer	
		Max.	Min.
1.	No load loss in KW	35	31.5
2.	Load loss in KW at rated voltage, rated frequency and rated current at 75°C	205	184.5
3.	Auxiliary loss in KW	5	4.5

The bidders shall have to offer no load loss, load loss and auxiliary loss separately. In case any of the offered losses (i.e. no load loss, load loss or auxiliary loss) quoted by the bidder is more than the maximum permissible limits, the bid shall be considered as non responsive and shall be out rightly rejected without any correspondence in the matter.

In case any of the losses are below the minimum range prescribed above, the bid shall be treated as responsive. However, for price bid evaluation purpose, the minimum range of the respective loss prescribed above shall be considered.

**(ii) Capitalisation of losses of power transformers:**

The capitalisation of no load loss, load & auxiliary loss for the bidder who has quoted above the minimum of the respective range of losses specified in abovementioned clause-x(i) shall be done on the following rates (differential of quoted loss & minimum value of the range for respective loss).

- (a) For differential no load loss above Min value: Rs. 4,01,840.00 per KW
- (b) For differential load loss above Min value :Rs. 2,13,780.00 per KW
- (c) For differential auxiliary loss above Min value:Rs. 1,60,700.00 Per KW

In case a bidder quotes any of the losses below the minimum value of the range prescribed above, the value of loss shall be considered equal to minimum of the range specified above for respective loss for price bid evaluation purpose. An illustrative example for capitalization of losses is indicated in Annexure- A-26.

However, it should be clearly noted that during final testing of each of transformer, the measured losses individually (i.e. No load, load & auxiliary losses as applicable) should not exceed the values quoted by the bidders in the bid (in Annex. A-3). In case, any of the losses exceed the quoted losses, respective transformer shall not be accepted.

The capitalised value of the losses worked out on differential loss basis as mentioned above shall be loaded on the total cost of the project for price bid evaluation purpose.

- (xi) **NEGOTIATION OF PRICES:** CSPTCL reserves the right to hold negotiation with L-1 bidder as deemed necessary. Procedure adopted by CSPTCL for holding negotiation shall be final and binding on all bidders.

**Although details presented in this tender specification have been compiled with all reasonable care, it is the responsibility of the bidder to satisfy himself that the information given in each section are adequate and there are no conflicts between various clauses/ sections/ specifications. The clarification/ decision of the Executive Director/ Chief Engineer (Planning & Projects) shall be final and conclusive.**

## 6. TAXES

Those bidders which are unregistered under GST shall not be allowed to participate in the tender. The bidder shall quote GST Registration number in Annexure A-1.

- (i) GST and other levies in respect of supplies and services under the Contract should be indicated separately in respective columns in the Price Bid Proposal Sheets. The ITC (Input tax credit) available to bidder should be duly considered while quoting the rate. Any variation in tax rate during scheduled completion period will be on CSPTCL's account.
- (ii) **Cess under Building and other Construction Workers Welfare cess Act, 1996:-** The contractor for carrying out any construction work in Chhattisgarh State must get themselves registered under section-7 (1) of the "Building and Other Construction Workers Welfare Cess Act, 1996" and rules made thereunder by the Chhattisgarh Govt. and submit Certificate of Registration issued by the Registering Officer of the Chhattisgarh Government (Labour Department) for enforcement of the Act. The cess @1% on cost of supply of materials and construction charges shall be borne by the contractor and same shall be deducted from each bill. Any variation in this respect within scheduled completion period shall be to the account of CSPTCL.

If the rate of applicable cess beyond contractual completion period undergoes upward revision, the payment will continue to be made only on the basis of rates prevailing during completion period. In case the rate of cess undergoes downward revision then the delayed works beyond contractual completion period will attract reduced rate of cess.

- (iii) **Payment of other taxes/charges which are not described above:-**The bidder should be aware of the various taxes, duties, levies imposed by the Central Government, State Government or Local Bodies applicable in this contract as on the date of TC bid opening. Further, in the price bid, it should be specifically stated regarding each tax whether it is inclusive or exclusive. However, if there is no specific mention of any duties/levies as exclusive in the price bid, it will be presumed to be inclusive if it is applicable as on the date of TC bid opening and will not be paid extra.
- (iv) Any variation in statutory taxes within stipulated completion period shall be in the account of CSPTCL.
- (v) **Tax Beyond contractual completion period:** If the rate of applicable taxes / duties beyond contractual completion period undergoes upward revision, the payment will continue to be made only on the basis of rates prevailing during scheduled completion period. In case the rate of statutory levies undergoes

downward revision then the supplies/ work performed beyond contractual completion period will attract reduced rate of taxes.

- (vi) **Any other new tax:** If any other tax or duty becomes payable during the completion period of contract (after TC bid opening) the same shall be paid extra by CSPTCL to the contractor as per actual on submission of documentary evidence, having paid the same as per the rules. However, tax due to increase of Turnover or withdrawal of tax exemption earlier available to the vendor etc. will not be reimbursed.
- (vii) The contractor shall be solely responsible for payment of all taxes, duties, license fee etc. if any, for all the equipments and materials covered under this contract to the concerned authority as may be applicable from time to time.

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**SECTION - II**  
**GENERAL CONDITIONS OF CONTRACT FOR SUB-STATION WORKS**

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## SECTION - II

### GENERAL CONDITIONS OF CONTRACT FOR SUB-STATION WORKS

#### 1. DEFINITION OF TERMS:

In writing this General Condition of Contract, the specification and bill of quantity, the following words shall have the meaning hereby indicated, unless there is something in the subject matter content inconsistent with the subject.

- “CSPTCL” shall mean the Chhattisgarh State Power Transmission Company represented through the Executive Director/ Chief Engineer (Procurement & Projects).
- “The Engineer- in- Charge” shall mean the Engineer or Engineers authorised by the Chief Engineer (P&P) for the purpose of this contract.
- “CSPTCL Engineer” shall mean an Engineering person or personnel authorised by the CSPTCL to supervise and inspect the erection of the sub-station.
- “The Contractor” shall mean the successful bidder awarded with the contract or their successors and permitted assigns.
- “Contract Price” shall mean the sum named in or calculated in accordance with the provisions of the contract as the contract price.
- “General Conditions” shall mean these General Conditions of Contract.
- “Owner” shall mean CSPTCL.
- “Specification” shall mean the specification annexed to these General Conditions of Contract and shall include the Schedules and drawings attached thereto or issued to the contract as well as all samples and patterns, if any.
- “Month” shall mean calendar month.
- “Writing”: shall include any manuscript, typewritten, printed or other statement reproduced in any visible form whether under seal or under hand.
- “Package” shall mean combination of all the projects included in the Tender.
- “Project” shall mean the EHV Substation.
- “Date of Tendering” shall mean the original due date of opening of TC bid.

#### 2. CONTRACT DOCUMENT:

The term “Contract” shall mean and include the General Conditions, specifications, Annexures, drawings, work orders issued against the contract Annexures of price or the final general conditions, any special conditions applying to the particular contract specification and drawings and agreement to be entered into. Terms and conditions not here in defined shall have the same meaning as assigned to them in the Indian Contract Act.

#### 3. MANNER OF EXECUTION:

- 3.1 The manner of execution shall be such that the supply of materials/ equipments reaches the site only when the foundation/Control Room etc are ready to take up erection work of the respective equipment. Construction of the sub-station shall be carried out in an approved manner as outlined in the technical specification or where not outlined, in accordance with latest relevant Indian Standard Specification, to the reasonable satisfaction of the Engineer-in-charge.

3.2 The contractor shall within 15 days after the date of acceptance of letter of award (LOA) submit to the ED/CE (Planning & Projects), a detailed program for the execution of work for his consent. This detailed programme should be in the form of a detailed P.E.R.T. Network/Bar Chart within the time frame agreed considering adequate number of activities covering various key phases of the works such as Design, procurement, manufacturing, shipment & Erection activities. The P.E.R.T. chart shall be approved by ED/CE (Planning & Projects) & shall form a part of contract document. Based on this P.E.R.T. network fortnightly progress shall be submitted by the contractor to o/o ED/CE (Planning & Projects). The contractor shall whenever required by the CSPTCL also provide in writing for his information if general description of the arrangements and methods which the contractor proposes to adopt for the execution of the work.

3.3 If at any time it should appear to CSPTCL that the actual progress of works does not confirm to the program to which consent has been given under sub-clauses 3.2, the contractor shall produce at the request of CSPTCL a revised program showing the modifications to such program necessary to ensure completion the works within the time of completion.

#### **4. VARIATION, ADDITIONS & OMISSIONS:**

CSPTCL shall have the right to alter, amend, omit, or otherwise vary the quantum of work by notice in writing to the contractor. The contractor shall carry out such variation in accordance with the rates specified in the contract so far as they may apply. In case of requirement of material(s) which is not included in the price schedule and rates are not available, an offer for the rates from the contractor shall be obtained. A committee shall be formulated after obtaining competent approval, to examine the reasonability of the rates offered by the contractor. The recommendation of the committee shall then be put up for competent approval and bills shall be processed/admitted on the basis of rates so decided.

#### **5. INSPECTION DURING ERECTION:**

The Engineer-in-Charge or his authorised representative(s) shall be entitled at all reasonable times to inspect and supervise and test during erection of sub-stations. Such inspection will not relieve the contractor from their obligations under this contract.

In addition to the routine inspection to be carried out by the Engineer-in-charge, the field officers from Civil, EHT & Testing of the level of Superintending Engineer shall carry out inspection at least once in two months at different stages of construction i.e. marking of civil foundations, excavation, structure erection, transformer erection, breaker & CT PT erection, testing & commissioning. The Senior Engineer from the contractor's side shall be present during such inspection and the guide lines issued by the SEs shall be noted and complied by the contractor. A copy of the inspection note and its compliance shall also be submitted to the ED/CE (Planning & Projects).

If after testing & commissioning, the material is found to be defective, the same shall be replaced free of cost immediately and commissioning charges for equipment will not be paid.

#### **6. COMPLETION OF WORK:**

6.1 Time being deemed to be the essence of contract on the part of the contractor, the construction of the Sub-stations (if any) shall be completed within the period specified i.e. **18 (Eighteen) months** from the date of handing over of substation site. The letter of handing over of site shall be issued separately by Engineer in-charge for civil works authorized by CSPTCL.

The completion period includes the period of rainy season and accordingly, no additional period due to rainy seasons will be allowed.

- 6.2 **Handing over of Sub-station site:** - The construction site free from hindrances shall be handed over to the contractor. The date of letter conveying handing over of site issued by concerning civil division shall be the date of handing over of site. This letter shall be issued after joint inspection by SE (EHT: C&M), SE (Civil), SE (S/S:O&M) and contractor's representative.
- 6.3 **Taking over of sub-station:-** Upon receipt of intimation about completion of the substation and after inspection, CSPTCL Engineer-in-charge of EHT works of that project shall issue a taking over certificate in which he shall certify the date on which the project has been so taken over.

It may be noted that particular project shall be taken over only after completion of all the works involved in it. In case the substation is completed on different dates, the date of taking over shall be the date of completion of substation whichever is later.

The necessary certificate of taken over of completed work shall be issued within 30 days of the notice/ intimation received from the contractor.

- 6.4 The issuance of taking over certificate shall in no way relieve the contractor of his responsibility for the satisfactory operation of the all Sub-Stations in terms of the specifications.

## 7. **CONTRACTOR'S DEFAULT LIABILITIES:**

The CSPTCL may upon written notice of default to the contractor terminate the contract in circumstances detailed here under:-

- (I) If, in the judgement of CSPTCL, the contractor fails to
- (i) complete the contractual formalities within the time specified in the contract agreement or within the period for which extension has been granted by CSPTCL to the contractor
  - and / or
  - (ii) comply with any of the provisions of this contract.

In such case(s) CSPTCL under the provisions of this contract shall take one or more of the following penal actions:-

- (a) Terminate the contract
  - (b) Forfeiture of EMD and/or security deposit, if available.
  - (c) Debar the firm for future business with CSPTCL for a period of two years from the date of issue of letter to this effect.
  - (d) This debarring may be applicable in respect of other Chhattisgarh State Power Companies also as may be decided by their management.
- (II) In case the contractor fails to commence the work within the reasonable period as decided by CSPTCL or fails to complete the works within the contractual completion period or the progress is not commensurate with the time period provided for completion of entire substation or within a period for which extension has been granted by CSPTCL, one or more of following penal actions may be taken by CSPTCL against the contractor.
- (a) Terminate the contract.
  - (b) Forfeiture of security deposit, if available.

- (c) Debar the firm for future business with CSPTCL for a period of two years from the date of issue of letter to this effect.
- (d) This debarring may be applicable in respect of other Chhattisgarh State Power Companies also as may be decided by their management.
- (e) The payment of pending RA bills of the instant contract shall be withheld.
- (f) The payment of pending RA bills of the other running contracts shall also be withheld.

(III) In case the work included in the tender is not completed in accordance to relevant clause of the tender "completion of work" and CSPTCL does not terminate the contract, the contractor shall continue to execute the work, in which case he shall liable to CSPTCL for deduction of liquidated damages for delay as per relevant clause of this contract until the Project is completed.

#### **8. FORCE MAJEURE:**

The contractor shall not be liable for any liquidated damages penalty for delay or for failure to perform the contract for reasons of FORCE MAJEURE such as acts of God, acts of public enemy, act of Government, ROW, cyclones, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes etc provided that the contractor shall within 10 (ten) days from the beginning of such delay notify CSPTCL in writing, the cause of delay. CSPTCL shall verify the facts and grant such extension as facts justify.

#### **9. REJECTION OF WORKS:**

In the event of any of the material supplied/work done by the contractor is found defective in material or workmanship or otherwise not in conformity with the requirement of this contract specification, the CSPTCL shall either reject the material and/or work and request the contractor to rectify the same. The contractor on receipt of such notices rectify or replace the defective material and rectifies the work, free of cost. If the contractor fails to do so the CSPTCL may:

- a) At its option replace or rectify such defective materials and/or works and recover the extra cost so involved from the contractor plus fifteen percent from the contractor and/or terminate the contract for balance work/supplies with enforcement of penalty as per contract.
- b) Defective materials/workmanship will not be accepted under any conditions and shall be out-rightly rejected without compensation. The contractor shall be liable for any loss/damage sustained by CSPTCL.

#### **10. EXTENSION OF TIME:**

If the completion of the sub-station is delayed due to reason beyond the control of the contractor, the contractor shall without delay give notice/intimation to CSPTCL in writing of his claim for an extension of time. The CSPTCL on receipt of such notice/intimation may agree to extend the contract delivery date of the sub-station with or without levy of liquidated damages as may be reasonable but without prejudice to other terms and conditions of the contract.

#### **11. GUARANTEE PERIOD:-**

11.1(a) The work done, material/ equipment except power transformer supplied by the contractor as per the contract specification should be guaranteed for satisfactory operation and against any defect in material and workmanship **for a period of 24 (Twenty Four) months from the date on which the sub-station is taken over.** Any

defect noticed during this period should be rectified by the contractor on free of cost basis upon written notice. The date of delivery of sub-station as described in this clause shall mean the date of taking over the sub-station by the Engineer. CSPTCL will arrange 220/132 KV supply to sub-station within one month from the date of completion of sub-station. If the sub-station is taken over in un-energised condition due to non- completion of feeding line then **guarantee will be for 30 (Thirty) months from the date of taking over or 24 (Twenty Four) months from the date of energization of substation whichever is earlier.**

- (b) **Guarantee for power transformers (Both 160 MVA):-** The Power transformer shall be guaranteed for a period of 42 months from the date of satisfactory commissioning of transformer along with all accessories. Please note that the date of commissioning of last accessory will be treated as date of commissioning of transformer. The transformer found defective/failed within the above guarantee period shall be got replaced/ repaired by the contractor free of cost, within four months from date of issue of intimation letter to the contractor by CSPTCL regarding its defect/failure.

If the contractor fails to arrange repair/replace the failed/defective transformer within four months, the contractor shall be liable to pay penalty charges for delayed repairs at the rate of 0.5% of the cost of transformer per week of delay or part thereof, subject to a maximum ceiling of 10% of the cost of the transformer. This penalty shall be in addition to the liquidated damages as per clause-14.1 of GCC for delay in completion of the contract.

If the defective/failed transformer is not lifted for replacement/repairing within 2 months from the date of intimation by CSPTCL regarding defect/ failure OR one month from date of acceptance of additional Indemnity Bond submitted by the contractor, (in case the transformer is required to be taken back to the works for repairing) whichever is later.

**OR**

not repaired within seven months from date of lifting of failed/ defective transformer, penal action may be taken which will include forfeiture of performance guarantee of transformer and debarring of turnkey contractor in addition to the other applicable penalty.

The above provisions shall be applicable for second time failure also, if any.

**11.2 EXTENDED GUARANTEE PERIOD POST REPAIRS OF TRANSFORMER:-**

The following extended guarantee shall be applicable, in case the transformer fails within guarantee period.

**a) First time failure within guarantee period:**

- i) If the transformer fails within 12 months from the initial commissioning, the guarantee period shall get extended to 42 months from the date of satisfactory re-commissioning of transformer after repairs along with all accessories.
- ii) If the transformer fails after 12 months within the original guarantee period, the original guarantee period shall get extended for a period equal to the time period lapsed between date of failure to date of re-commissioning after repairs i.e. the residual guarantee period or 12 months from date of re-commissioning after repairs, whichever is later.

**b) Second time failure of transformer within guarantee period:**

If the transformer fails again (second time) within the original/extended guarantee period, the guarantee shall automatically get extended for further period of two years from the date of re-commissioning (post repair) or from the end of the original/ previously extended period, whichever is later. Further the contractor shall be required to submit an additional performance bank Guarantee equivalent to 10 % of the FOR destination price of Power Transformer upto expiry of extended guaranteed period plus six months claim period. This performance bank Guarantee shall be in addition to 10 % performance guarantee submitted as per clause no. 12.1 (i).

**c) Third time failure of transformer within guarantee period:**

If the transformer fails within guarantee /extended guarantee period for third time, this will be treated as adverse performance of contractor as well as manufacturer and in such case penal action shall be taken which will includes

- i) Forfeiture of 10% BG submitted against performance of transformer.
- ii) Forfeiture of additional 10% performance BG furnished subsequent to second time failure.
- iii) The contractor shall be debarred from future business with CSPTCL and other chhatisgarh state power companies for a period as decided by management.
- iv) The name of the transformer manufacture shall be deleted from the vendor list of CSPTCL for power transformer of the capacity supplied against the instant case and higher capacities for forthcoming turnkey projects and shall not be considered for procurement cases of CSPTCL as well as other Chhattisgarh State Power Companies for a period as decided by management.

If, for the purpose of replacement/repairs, the equipment/material is required to be dispatched to manufacturer's works, all charges towards transportation / insurance/ packing / forwarding will have to be borne by contractor for to and fro dispatches.

In this connection, please note that the following additional conditions will also be applicable in case any damages/defects are noticed in the transformer or its accessories-

If the material develops defect within guarantee/extended guarantee period after installation at site or subsequent to installation after repairs (1<sup>st</sup> or 2<sup>nd</sup> time), for the purpose of replacement / repairs, the same will have to be dismantled and taken out by CSPTCL, in such cases actual cost of dismantling and replacement of the transformer will also be recoverable from contractor.

In case, transformer fails during guarantee / extended guarantee period, the following terms shall also be applicable (in first or second time failure both)-

- (i) An additional Indemnity Bond on stamp paper of Rs.250.00 shall be required to be submitted by the contractor, in case the transformer is required to be taken back to the works for repairing. The value of this Indemnity Bond shall be equal to the cost of transformer along with all taxes, duties, freight and testing charges. The transformer shall be handed over for repairing only after submission and acceptance of additional indemnity bond.
- (ii) The transformer should be offered for inspection after completion of repairing work. The repaired Transformer shall be tested for all routine, additional routine, type and special test as per IS-2026 & as narrated in section-III-B, clause-6 under head "Tests" of technical specification of transformer.

- (iii) The Transformer should be offered for inspection after repairing within four months from date of intimation of failure by CSPTCL.
- (iv) The dispatch instructions shall be issued for repair transformer after its satisfactory inspection. The transformer should reach the destination (anywhere in C.G. state) within 45 days from date of issue of dispatch instruction failing which actual date of receipt of repaired transformer at site shall be treated as date of delivery of the repaired transformer for all contractual purposes.
- (v) In case of failure / defect in transformer (first or second time) within guarantee / extended guarantee period, the validity of performance guarantee for transformer submitted by the contractor against the contract as per clause 12.1(i) of GCC should be extended up to expiry of extended guarantee period with additional claim period of six months. In case, contractor fails to extend the guarantee period of transformer, claim shall be lodged with the issuing bank for encashment of the all performance bank guarantee for transformer.

**11.3 Guarantee period of equipments commissioned subsequent to charging of sub-station:-** If any equipment is not charged/ commissioned at the time of substation charging, the guarantee period of that particular equipment shall be counted from its date of commissioning. In case of failure of any equipment within guarantee period, the contractor shall be liable for the replacement/repairing of that particular equipment. However, the guarantee period of the replaced/ repaired equipment shall be for a further period of 24 months from the date of commissioning of replaced/ repaired equipment for its faithful performance.

**12. PERFORMANCE GUARANTEE: (Separately for all orders)**

12.1 Before issue of final taking over certificate by the engineer-in-charge of CSPTCL, contractor shall furnish CSPTCL, following performance bank guarantee from a nationalised/Scheduled Bank in the approved proforma of the CSPTCL for value equivalent to-

- i) 10% of the total FOR destination price of the power transformer and
- ii) 5% of the contract price (i.e., Supply+Civil+ETC & excluding cost of power transformer).

12.2 These bank guarantee shall be executed in a stamp paper worth Rs.250/- or any other amount as per the CG state stamp duty act and shall be kept valid for a period exceeding 90 days from completion of original/extended guarantee period of particular equipment/power transformer as specified in foregoing clause-11 (Guarantee Period) plus six months claim period.

12.3 The bank guarantee mentioned at 12.1 (i) & 12.1 (ii) shall be released after successful completion of original/extended guarantee period of particular equipment/power transformer as specified in foregoing clause-11 (Guarantee Period) and issue of no liability certificate from the Engineer-in-charge of work.

12.4 No interest shall be paid by CSPTCL for the aforesaid Bank Guarantee. In case of non-performance of the equipment/power transformer as per the contract specification, the performance Bank Guarantee shall be forfeited.

**13. TERMS OF PAYMENT:**

13.1 The payment on running bills will be allowed in the following manner to relieve the contractor from financial hardship, if any, so as to facilitate him for timely completion of the work.

(A) **SUPPLY:** The payment against supply of equipments /materials shall be released in the following manner.

- i) 70% of the value of equipments / materials supplied every month duly verified by Engineer incharge at accepted rates shall be paid normally within a period of One month from presentation of bill. The contractor shall present at the end of each calendar month a bill for the equipments/ materials supplied for verification & processing to the engineer in charge.
- ii) 20% of value of equipments / materials shall be released after erection of the corresponding equipment/material normally within a period of one month from erection of equipment/material & its due verification by engineer-in-charge.
- iii) Balance 10% retention amount of the value of equipments / materials shall be released after successful completion of work and taking over of sub-station by CSPTCL.

**Note :-90% payment for Substation Automation System and Data Logging System of energy meter shall be released only after it's successful commissioning. Part payment against supply of these two items will not be done.**

(B) **CIVIL:** The contractor shall present at the end of each calendar month a bill for the completed civil works during the month. On the basis of accepted rates, 90% of cost of completed civil works duly verified by the engineer in charge shall be released within one month from presentation of bill balance 10% retention amount shall be released after successful completion of work and taking over of substation by CSPTCL.

The 90% payment for control room building shall be released in accordance with the progressive work as detailed below –

Progressive payments (in % of the cost of control room)		
i	Plinth level	13%
ii	Internal cable trenches	20%
iii	Lintel level	24%
iv	Roof slab level	33%
v	Outer plaster	38%
vi	Inner plaster	44%
vii	Fixing of doors & window	53%
viii	Concealed wiring, internal water supply, fixing of tube light fans etc.	58%
ix	Complete painting work	64%
x	External water supply, I/C fixing of tank with inlet, outlet & over flow arrangement	68%
xi	Balance finishing work, plinth protection, steps, porch tiling, false ceiling etc.	90%

Note – The aforesaid percentages have been worked out taking into consideration the deduction of 10% towards retention amount.

(C) **ERECTION, TESTING & COMMISSIONING: -**

The contractor shall present at the end of each calendar month a bill for the completed Erection, Testing & Commissioning works etc. during the month. On the basis of accepted rates, 90% of cost of completed works duly verified by the Engineer-in-



charge shall be released normally within one month from presentation of bill, balance 10% retention amount shall be released after successful completion of work and taking over of sub-station by CSPTCL.

- (D) The contractor shall furnish following documents for claiming the payments:-
- (i) Original invoice.
  - (ii) Material inspection report.
  - (iii) DI issued by ED/CE (Procurement & Projects) CSPTCL.
  - (iv) Original packing list/Delivery challan.

The invoices raised by the vendor should be in the name of contractor and A/c (Name of EHV S/s) CSPTCL.

- (E) The payments shall be made through RTGS/NEFT. Please furnish following details :-
- (i) Name of Bank and its address.
  - (ii) Bank A/c Number.
  - (iii) Bank IFSC Number.
  - (iv) e-mail ID & mobile number of Principal officer.
- (F) The contractor shall also furnish following documents with the first RA bill (Supply or Civil) for claiming the payment:-
- (i) Copy of the letter issued by order placing authority, conveying acceptance of indemnity bond as per Annexure A-15.
  - (ii) Copy of the letter issued by order placing authority, conveying acceptance of PERT chart.

**13.2 ADVANCE PAYMENT** If requested by the contractor, CSPTCL may at its option grant an advance payment of maximum 10% of contract value after obtaining approval of competent authority. "The advance shall attract interest at the rate notified by PFC for capital projects of STU's in category under which CSPTCL falls plus a margin of 2%. The interest shall be charged monthly outstanding advance. Presently, CSPTCL is rated as 'A' and rate notified by PFC for capital works of 'A' category STU's is 11.25% p.a. which implies that applicable interest rate at present would be 13.25% to be charged on monthly basis". Separate order shall be issued to this effect. The contractor will furnish an unconditional and irrevocable Bank Guarantee from a Nationalized / Scheduled Bank in favour of CSPTCL for an amount equal to the advance granted plus interest up to the completion period calculated on it. The bank guarantee shall be initially valid till six months (180 days) after expiry of completion period and shall be extended from time to time 180 days as required. The advance, if granted, shall be recovered from the running bills along with accrued interest as per CSPTCL's terms and conditions which shall be brought in the order for advance payment. The bank guarantee shall be released on recovery of entire amount of advance granted plus interest.

**Procedure for reduction in the Advance Payment Security Guarantee:**

The BG furnished towards advance payment may be considered to be reduced in every three months in case the validity of bank guarantee is more than one year. It should be clearly understood that reduction in value of advance Bank Guarantee shall not in any way dilute the contractor's responsibilities under the contract including in respect of the facilities for which reduction in the value of securities is allowed.

**13.3 DEDUCTION OF ADVANCE PAYMENT:** - The advance payment with interest accrued on the advance made to the contractor will be adjusted against their running

bills. The adjustment of advance will be done from the running bills of the contract proportionately to the extent of 20% in supply of materials, 20% of civil works and 20% on ETC charges only till the total advance plus interest gets adjusted.

**14. LIQUIDATED DAMAGE FOR DELAY IN COMPLETION OF CONTRACT:**

14.1 If the contractor fails to perform the works within the completion period specified or any extension granted thereto, in respect of commissioning of EHV substation, CSPTCL shall recover from the contractor as liquidated damages, a sum of (0.5%) of the total price of substations (supply, civil works & ETC) for each calendar week (or part thereof) of delay of the work covered under individual Project of this tender. For this purpose, the date of taking over by the concerned EHT division shall be reckoned as the date of completion.

The liquidated damages shall not exceed 5% (FIVE percent) of the total contract price for completed and uncompleted portion of the substation (supply, civil works & ETC).

The payment or deduction of such damages shall not relieve the contractor from obligations to complete the work or from any of other obligations and liability under the contract.

14.2 In case transformer is found defective/failed within the guarantee period and the contractor fails to arrange repair/replace the failed/defective transformer within four months from date of issue of intimation letter to the contractor by CSPTCL regarding its defect/failure, the contractor shall be liable to pay penalty charges for delayed repairs at the rate of 0.5% of the cost of transformer per week of delay or part thereof, subject to a maximum ceiling of 10% of the cost of the transformer. This penalty shall be in addition to the liquidated damages recoverable as per clause-14.1 for delay in completion of the contract.

**15. SECURITY DEPOSIT: (Separately for all orders)**

a. The contractor shall furnish a bank guarantee from a nationalized/scheduled bank for an amount of 10% (ten percent) of the cost of the orders as a contract security. This bank guarantee shall be submitted within 30 days of receipt of individual orders and shall be kept valid for a period exceeding the scheduled completion date by two months with claim period of six months.

b. In case the project is delayed (running beyond schedule) on any account, the contractor will be required to extend the validity of BG well in advance for atleast for six months or period of expected delay plus six months claim period, whichever is more. This extension in validity will be at contractor's cost only. The validity of the bank guarantee shall be extended on stamp paper worth Rs. 250/- or as per the prevailing legal requirements. Any other amount as per the C.G. State Stamp Duty Act shall be from a Nationalised/ Scheduled Bank in the prescribed form of CSPTCL. No interest shall be paid by CSPTCL on the security deposit. In case of non-fulfilment of contractual obligations by the contractor, the security deposit shall be forfeited.

c. The security deposit will be released only after completion of entire works, issue of No dues certificate from the Executive Engineer in charge of work and after submission of performance B.G.

**16. INSURANCE:**

- 16.1 The contractor shall arrange insurance coverage for the materials at his custody and substation under execution as per the conditions laid down in the relevant clause of the technical specification.
- 16.2 The contractor shall take up insurance or such other measures of his work force which covers the claim for damage arising under workmen's compensation Act and other applicable State/Central laws. CSPTCL shall not bear any responsibility on this account. The contractor shall insure the entire sub-station during construction and shall kept it insured against loss by theft, destruction or damage by fire, flood, riot, civil commotion, sabotage or rebellion for the full value of the sub-station from the time of delivery until the S/S is taken over.

The contractor shall ensure following insurances also :-

Workmen compensation insurance :- This shall protect against claims applicable against workmen's Compensation Act, 1948 (Govt. of India).

Workmen's compensation : As per statutory provisions  
Employees liability : As per statutory provisions

**17. INSPECTION OF EQUIPMENTS:-**

The pre despatch inspection of the equipments / materials shall be carried out at the works of the manufacturer in accordance with the inspection schedule placed at Annexure A-23. The equipment / material in the scope of supply to CSPTCL shall be inspected by Company's authorised engineer / agency. For this purpose the contractor shall submit inspection call at least 15 days in advance, in the O/o ED/CE (Procurement & Projects) CSPTCL. The expenses of CSPTCL Engineers for inspection shall be borne by CSPTCL.

In case on scheduled date of inspection, the material is not ready for inspection the call shall be treated as fake call and the contractor shall be required to remit a sum of Rs.5,000/- per such call or actual expenditure incurred in the visit of the inspector whichever is more.

**18. DISPATCH INSTRUCTIONS:-**

After inspection, the equipment / material shall be despatched to the site only on issue of Despatch Clearance from o/oED/ CE (Planning & Projects).

The despatch clearance of equipments, power transformers, structures, C&R panels shall be given on the basis of readiness at site.

- i) **Structure:**D.I. will be issued after completion of respective foundations.
- ii) **Equipments:**D.I. will be issued after the readiness of foundations and structural erection is under progress.  
The DIs in respect of equipments which are supplied alongwith the structures and foundation bolts viz. circuit breaker, etc. shall be issued during process of laying of foundation.
- iii) **C&R panels, Carrier panel, Exchange:** D.I. will be issued after the readiness of Bay Marshalling Room for the placement of C&R panels directly in the Bay Marshalling Room.
- (iv) **SAS:** D.I. will be issued after the readiness of Control room and Bay Marshalling Room.

- (v) **Power Transformers:** D.I. will be issued after the readiness of all the foundations of the Sub-station and completion of structural erection of equipments and the erection of gantries.
- (vi) **Cables:** D.I. will be issued after readiness of main cable trenches and the Bay Marshalling Rooms.
- (vii) **ACDBs, DCDBs, Battery and Battery charger:** D.I. will be issued after the readiness of Control room.

However, ED/CE (Procurement & Projects) may issue dispatch clearance of various equipments/materials based on the assessment of the works, looking to its pace and review of progress of work, various site conditions, urgency of work and other factors like time required for transportation, loading and unloading etc.

**19. PAYMENT DUE FROM THE CONTRACTOR:**

All costs of damages for which the contractor is liable to the CSPTCL will be deducted by the CSPTCL from any amount due to the contractor under the contract.

**20. JURISDICTION OF THE HIGH COURT OF BILASPUR:**

Suit, if any, arising out of this contract shall be filed by either party in a Court of Law at Raipur within the jurisdiction of the High Court of Bilaspur.

**21. CONTRACTOR'S RESPONSIBILITY:**

Notwithstanding anything mentioned in the specification or subsequent approval or acceptance of the substation by CSPTCL, the ultimate responsibility for satisfactory performance of the substation shall rest with the contractor.

**22. RESPONSIBILITY TO RECTIFY THE LOSS AND DAMAGE:**

If any loss or damage happens to the work or any part thereof or materials/plant/equipments during storage, construction, erection & commissioning, the contractor shall be responsible for the damage / loss and he shall at his own cost shall rectify / repair or replace the same for which the contract may arrange necessary insurance cover at his cost.

**23. NON-ASSIGNMENTS:**

The contractor shall not assign or transfer the work orders issued as per this contract or any part thereof.

The contractor for ease and expeditious completion of the assigned works, may appoint various agencies/sub-vendors. The intimation for appointment of such agencies/ sub-vendors should be furnished to order placing authorities.

CSPTCL shall not be responsible for payment of any dues to these agencies / sub-vendors appointed by the contractor and also default of any statutory requirement.

**24. CERTIFICATES NOT TO AFFECT RIGHTS OF CSPTCL:**

The issuance of any certificate by CSPTCL or any extension of time granted by CSPTCL shall not prejudice the rights of CSPTCL in terms of the contract nor shall this relieve the contractor of his obligations for due performance of the contract.

**25. SETTLEMENT OF DISPUTES:**

- 25.1 Except as otherwise specifically provided in the contract, all disputes concerning question of fact arising under the contract shall be decided by CSPTCL provided a written appeal by the contractor is made to CSPTCL. The decision of CSPTCL shall be final to the parties hereto.

25.2 Any disputes or difference including those considered as such by only one of the parties arising out of or in connection with this contract shall be to the extent possible be settled amicably between parties. If amicable settlement cannot be reached then all disputes/issues shall be settled by Arbitration as provided in this contract.

**26. ARBITRATION:**

- i. No dispute or difference arising between the contractor and CSPTCL under or relating to or in connection with the Contract shall be referred to Arbitration unless an attempt has first been made to settle the same amicably.
- ii. Where any dispute is not resolved amicably then such dispute shall be referred to & settled by Arbitration under and in accordance with the provisions of Arbitration and Conciliation Act 1996 and any statutory modification thereof, by three Arbitrators. One to be appointed by each party and the third to be appointed by the two Arbitrators appointed by the parties at the commencement of Arbitration proceedings and failing agreement between them, in accordance with said Act, the third Arbitrator so appointed shall act as the presiding arbitrator. The award shall be final and binding upon the parties. The venue of Arbitration shall be Raipur.
- iii. The language of the arbitration proceedings and of all documents and communications between the parties shall be English. Arbitration award shall be speaking, final and binding.
- iv. Notwithstanding anything to the contrary contained herein the work under the Contract shall continue during the pendency of any disputes or differences in Arbitration proceedings and no payment due from CSPTCL shall be withheld on account of such proceedings except to the extent which may be in dispute and CSPTCL shall be entitled to make recoveries of amounts, if any, due from the Contactor, as per the provisions of the Contract.

**27. LAWS GOVERNING CONTRACT:**

The contract shall be governed according to and subject to the Laws of India and jurisdiction of the High Court of Bilaspur & Civil Court at Raipur.

**28. LANGUAGE AND MEASURES:**

All documents pertaining to the Contract including specifications, Annexures / schedules, notice correspondence, operating and maintenance instructions, drawings or any other writings shall be written in English language. The metric system of measurement shall be used exclusively in this contract.

**29 CORRESPONDENCE:**

29.1 Any notice to the contractor under the terms of the contract shall be served by registered mail or by hand to the authorised local representative of the contractor and copy by post to the contractor's place of business.

29.2 Any notice to CSPTCL shall be served to the Chief Engineer (P&P), CSPTCL, Dangania, Raipur in same manner.

**30. SECRECY:**

The contractor shall treat the details of the specification and other documents as private and confidential and they shall not be reproduced without written authorisation from CSPTCL.

**31. AGREEMENT:**

The successful bidder shall have to enter into an agreement with the ED/C.E. (Planning & Projects) in the approved contract agreement form latest within 30 days of the receipt of the work order for construction of 220/132 KV S/s Patan .

**32. TIME SCHEDULE & CLARIFICATIONS: -**

- a) It is necessary that the tender documents are read by Bidders carefully and clarifications, if any, required before furnishing of tenders is promptly obtained. For any delay in this regard, Company will not be responsible and any request for extension of due date will not be entertained.
- b) In case, the specification for the same item/material/work are noticed to be different in two schedules, the contractor should ask clarification before submitting the tender, otherwise whatever is beneficial to CSPTCL shall be considered and decision of CSPTCL shall be final in this regard.

**33. CLAIMS FOR ITEMS NOT ENTERED IN THE SCHEDULE OF ITEMS:-**

Items shown in the schedule of items are purely for the purpose of indicating the type of work to be carried out and no claim shall be entertained for any item or work executed being not mentioned in the aforesaid schedule.

**34. SAFETY PRECAUTIONS:**

The contractor shall strictly follow, at all stages of erection of steel structures, the stipulations contained in the latest editions of IS-7205 "Indian Standard Safety code for erection of structural steel work".

**35. ENGAGEMENT OF WORKERS BY CONTRACTOR:-**

- a) The contractor shall at his own expense provide or arrange for the provision of footwear for labour doing cement mixing work which the contractor has undertaken to execute under this contract to the satisfaction of Engineer-in-charge.
- b) The contractor shall submit a statement to the Engineer-in-charge showing:-
  1. Number of Labours employed by him on the work
  2. Their working hours
  3. The wages paid to them, and
  4. The accidents that occurred during the working period of which information required stating the circumstances under which they occurred and the extent of damage and injury caused by them. The contractor should intimate all concerned about any accident & take immediate actions as governed by Rules.

Failure to supply such information or supplying materially incorrect statements may amount to breach of contract. The decision of the Engineer-in-charge shall be determining whether a breach has taken place.

- c) In respect of all labourers employed in the works, the contractor shall comply-with all the rules framed by the Government from time to time for the protection of Health and Sanitary arrangement of the workers.

**36. NATURE OF CONTRACT:-**

Notwithstanding anything stated elsewhere in the bid document, the contract to be entered will be treated as divisible in Supply, Civil works and Erection, Testing & Commissioning for construction of EHV sub-stations. The contract award shall be placed on successful bidder as follows:-

1. Supply of Transformers, 220 KV, 132 KV & 33 KV substation equipments, C&R Panels, conductors, hardware etc., Supply of GI steel structures, Supply of T&P, test equipments and furniture, substation automation system & other accessories.
2. Civil Works.
3. Erection of equipments & structure, Testing & commissioning charges.

All the three contracts will contain interlinking cross fall breach clause specifying that breach of one contract will constitute breach of other contracts also.

### 37. PRICES:-

37.1 The quoted price should be kept valid till the completion of the project. Bidders are requested to quote price only in prescribed formats. The prices for the following equipments shall be variable on the basis of Price Variation formula prescribed by IEEMA as per latest IEEMA circular, with base indices as issued by IEEMA in its circular one month prior to the due date of opening of TC bid. In case of extension of due date, the base date for working out the price variation shall be calculated as per the original due date of opening of TC bid.

- (i) 160MVA, 220/132/33 KV Power Transformers.
- (ii) 220 KV CVT (as applicable).
- (iii) 220KV, 132 KV & 33 KV Isolators.
- (iv) 220 KV, 132 KV & 33 KV/ 39 KV LA
- (v) 220 KV, 132 KV Circuit breakers.
- (vi) All GI structures.

For all other equipments / materials prices should be offered on FIRM basis.

The prevailing price variation formulas prescribed by IEEMA for Power Transformer, instrument transformer & isolators, Lighting arrester, GI structures are enclosed in the Annexure PV-1 to PV-8.

In case of revision of formula during the completion period, latest Price Variation formula issued by IEEMA shall be applicable.

The payment shall initially be done on the basis of base rate offered by bidder subject to price adjustment to reflect changes in the cost. **Price variation shall be applicable for ex-works component.**

The price adjustment shall be invoked by either party subject to the following further conditions:-

- a. For calculation of Price adjustment, date of notification regarding readiness of equipment/material for inspection at the works of the manufacturer, shall be reckoned as the "date of delivery". However in case of delay of project beyond the scheduled date of completion, no price increase shall be allowed beyond scheduled date of inspection. CSPTCL shall however be entitled to any decrease in the price which may be caused due to lower price adjustment amount in case of delivery beyond scheduled completion period, therefore, in case of delivery of equipments beyond the scheduled completion period the liability of CSPTCL shall be limited to the lower of the price adjustment amount which may work out either on scheduled completion date or actual date of delivery (inspection).
- b. If price adjustment works out to be positive the same is payable to the contractor by CSPTCL and if it works out to be negative, the same is to be recovered by CSPTCL from the contractor.

- c. The contractor shall submit price adjustment invoices for supplies positively within 3 months from date of supply of equipment whether positive or negative. However, in case of delay in submission of PV bills by the contractor, the order placing authority shall examine the reasons for delay and issue instructions whether to accept such bills or not.

The invoices should be supported with calculation of price variation along with documentary evidence of different indices applicable for price adjustment. Payment of price adjustment invoices shall be made after due verification, as follows:-

- (i) 90% of the price adjustment for respective equipment shall be paid after verification of invoices & receipt of material.
- (ii) Balance 10% amount shall be paid after successful commissioning and handing over of substation.

37.2 All the equipments and accessories required for completion of S/S have been included in the price schedules. However, if in the opinion of bidder some of the items essential for completion of sub-station have been left in the price schedule but are required to be offered, the same may be offered in schedule for left out items. Please note that the total price offered in this schedule shall be included in the cost of S/S offered by the bidder for price evaluation purpose and position of bidder shall be arrived at after adding of prices for left out items.

37.3 The quoted prices should be clearly mentioning Ex-Works Price, Excise Duty, Sales Tax, Composite Tax, Service tax, any levies or other taxes etc. making total unit price chargeable for the items quoted service tax and works contract tax whichever is applicable should also be mentioned clearly.

37.4 The prices of standard and reputed manufacturer items in accordance with vendor list shall be quoted so that quality assurance and performance of equipments are guaranteed in future.

37.5 For the items where the B.O.Q. has not been specified by CSPTCL if the quantities quoted by the bidder varies at the time of final engineering/ execution the approval of the same has to be taken from CSPTCL keeping in view that the total price of the schedule will remain un-altered.

### **38. DESIGN OF 220 K.V. SUB STATION SWITCH YARD:-**

The contractor is required to submit the design & switchyard plan layout for 220/132/33 KV switchyards for sub-station and SLD as per tender specification. These should be developed in line with the tentative switchyard plan layout provided with the tender. All steel structure of 220/132/33 KV Switchyard shall be as per design & drawing of CSPTCL. The weight of steel structure shall be as per tender document. The successful bidder shall be provided two sets of CSPTCL approved drawing of structures for above purpose. Equipment & structures should be offered according to the tentative layout. The layout should take into consideration the Indian Electricity Rules, incorporating latest amendments, regarding ground clearances, sectional clearances and inter-phase clearances. The bidder has to take into consideration of the land in possession of CSPTCL, while designing the layout, Civil foundation, Equipment & structure should be offered accordingly to approved layout requirements.

**39. ISSUE OF STRUCTURAL DRAWINGS:** The structural drawings shall be issued to L1 bidder by ED/CE (Planning & Projects). Since designing is in the scope of contractor, it is the sole responsibility of the contractor for –



- i) Observing all the required clearances (phase to phase, phase to earth, sectional clearances & ground clearances) as per tender specifications.
  - ii) Calculation of force at all the joints/sections and their load carrying capacity as per the tender specification.
  - iii) In case the structures do not comply with points (i & ii) given above, the contractor shall have to modify/ replace the structure as the case may be and acceptable to CSPTCL without any cost implication.  
If any modification required the same should be submitted for prior approval from this office.
- 40. (a) VARIATION IN QUANTITY OF STRUCTURES/ WEIGHT OF EARTH FLATS ETC:-** Since the quantity of the structure & weight of flats for earthing have been worked out by CSPTCL and unit rates have been quoted by the bidder; if during actual execution the quantity of structure or weight of earth flats varies, the bidder will be paid the extra charges/ less charges due to increase/decrease in quantity/weight.
- (b) VARIATION IN QUANTITY OF EQUIPMENTS:** -In the event of revision of *quantity* on completion of project, total ordered value of supply of material, civil works and erection charges of sub-station for complete project under this tender shall be worked out with the unit rates of L-2 bidder. In case the total value when calculated with unit rate of L-2 bidder is found lower than the revised value of order value, the total payment shall be limited to the lower of the two. This condition may be kept in view while quoting the rates.
- (c) EXECUTION OF EXTRA ITEMS OF CIVIL WORKS :-** In the event of *execution of extra item* defined in price bid Annexure C-1 (Civil Works), on completion of sub-station, total ordered value of supply of material, civil works and erection charges of substation in the tender shall be worked out with the unit rate of L-2 bidder. In case the total value when calculated with the unit rates of L-2 bidder is found lower, then the total payment shall be limited to the lower of the two. This condition may be kept in view while quoting the rates.
- 41. ENGAGEMENT OF SUB-VENDORS – CLEARANCE OF THEIR DUES AND OBSERVANCE OF INDUSTRIAL/LABOUR LAW.**
- 1) The contractor shall furnish list of various agencies/ sub-vendors proposed to be engaged for execution of different type of works under scope of this work order to the ED/ CE (C&LM) and CE (Civil) CSPTCL, Raipur.
  - 2) Wages and fringe benefits according to the Labour Law / Industrial Law and fixed by concerned District Collectorate as in force during the execution of the work shall have to be paid by contractor or his appointed sub-vendor. It shall be the sole responsibility of the main contractor for observing the prevailing laws and contractor shall be abided for such statutory requirements absolving CSPTCL fully in case of any dispute, if so arises.
  - 3) The termination/ completion of the sub-vendor's job shall be informed to CSPTCL promptly. The contractor shall furnish a statement to the effect that all the dues of all sub-vendors/ other agencies engaged by him for the execution of the contract have been fully cleared.  
The B.G. shall be released only after submission of the aforesaid statement to CSPTCL.

- 4) The contractor shall observe Labour Law/Industrial Law and Wages Law strictly with regard to payment and fringe benefits to be delivered to the labourers/workers engaged by the Contractor or his sub-vendor. It shall be the sole responsibility of main contractor for arranging due insurance of personnel / materials to meet out any exigencies. It shall be the sole responsibility of main contractor for observing all the prevailing Laws and CSPTCL shall not be held responsible for any liability / disputes or claim in any way if arises due to non-observance of such Laws. However, the decision of Honourable District Court / appropriate court of law shall be final and binding on CSPTCL, Contractor and sub-vendor in case of any dispute.

**42. POWER & WATER SUPPLY FOR CONSTRUCTION WORK:**

For providing power supply required for construction, erection, testing & commissioning work, CSPTCL shall extend supply up to the site of the Sub-station. Any line extension work etc required for this purpose shall be done by CSPTCL at their own cost.

However, the connection required for availing supply shall be arranged by the contractor. The expenditure on this account and the energy charges shall be borne by the contractor. Water supply shall be arranged by the contractor at his own cost.

**43. AWARD OF CONTRACT:-**

The contract will be awarded to the lowest bidder, if such bidder comes out to L-1 on the basis of above evaluation. However, CSPTCL reserves its right to accept or reject any or all the offers, in part or full, without assigning any reason whatsoever.

**44.(A) STORAGE, SHIPMENT OF EQUIPMENT/MATERIAL:-**

The indoor equipments received at site for the work under execution has to be stored under a temporary shed in proper manner so as to avoid entry of rain water, flood water and safe from theft & fire hazards etc. The outdoor equipments can be stored in open space free from water logging and fire hazard The Executing Division of the work to ensure that the bill raised by the contractor is passed only after storage of the equipments in proper manner. The site of the store shall be selected in consultation with engineer in charge of the work, in no way the store area shall create obstacles for construction of main switch yard. DI of materials shall be issued by this office only after getting confirmation of construction of storage shed from engineer-in-charge.

Materials /equipment has to be transported in proper manner with suitable package /cartoon to protect the equipment from damages due to injury during transportation.

Impact recorder shall be provided with power transformer during the transportation to site from the manufacturer's works to record shock/jerk/vibration. The report of the impact recorder is to be analysed at the time of receipt of transformer in the presence of CSPTCL engineer. The officer in charge of the work will ensure that the MRC is issued only after ensuring the shocks/vibration/jerk during the transportation is within limit. The contractor shall arrange the technical expertise required for the analysis of impact recorder. If the data of the impact recorder is not within the tolerable limit the transformer may not be received.

All the oil connecting conduit pipes, radiators oil conservators & turrets are to be blocked with the dummy MS flanges & gaskets in order to avoid ingress of moisture.

**(B) SUBMISSION OF INDEMNITY BOND TOWARDS SAFE CUSTODY OF EQUIPMENT/MATERIAL:-**

The contractor shall submit indemnity bond (as per Annexure A-19) towards safe custody of various material/equipments equivalent to cost of material provided in price schedule of supply order, indemnifying CSPTCL towards loss and damages if any. This bond shall be valid till contractual completion period or actual completion period whichever is later.

**45. UNSATISFACTORY PERFORMANCE:**

The bidders who have been debarred/ blacklisted for future business with CSPTCL/ or any other successive power companies of erstwhile CSEB as on date of issue of NIT, their T.C. bid/ price bid shall not be considered for evaluation.

**46. DRAWING & LITERATURES:-**

The contractor is required to submit 06 sets of drawings for approval before execution of the work. The contractor is also required to submit 06 sets of **as built** drawings before handing over the Sub-station to CSPTCL.

**47. DISCREPANCY WITH APPROVED DRAWING:-**

The suppliers are required to submit the drawings of the equipments/structures/T&P and all other materials strictly as per tender specifications. However, after approval of drawing, at a later stage, if it is detected that due to incorrect/incomplete/partially matching drawing with the tender specifications or due to any other reason the items actually supplied do not fulfil the requirements as per tender specifications the whole lot shall be liable for rejection unless the deviation is specifically approved by ED/CE (Planning & Projects).

**48. ELECTRICAL INSPECTOR FEE:-**

All pre-commissioning tests on equipment shall be carried out by the contractor. Commissioning of the equipments shall be carried out after receipt of clearance from the engineer-in-charge and Chief Electrical Inspector. Payment of statutory Electrical Inspector Fees and filing of papers of such inspection shall be done by the contractor.

All other materials required for erection, testing, and commissioning shall be supplied by the contractor at his own cost. Services of commissioning engineer wherever required would be on the contractor's account.

**49. COMPLIANCE WITH REGULATIONS:-**

Unless other wise specified all works shall be carried out in accordance with the Indian Electricity Rules 2003 OR revision thereof which may be issued during the period of contract.

**50. FULL TIME SITE ENGINEER:-**

Immediately on award of contract and handing over of the site, the contractor shall nominate one experienced site engineer having at least 3 years experience of similar work, who will be stationed near the substation site. The site engineer will execute all the works related to this substation on a full time basis. Immediately after handing over of the land, various activities are required to be carried out including preparation of lay out plan, soil investigation, fixing of levels etc. It is noted that some of the bidders have undertaken 2-3 projects but are carrying on with one site engineer only with the result that for achieving progress at one site, the works are delayed at other sites. Therefore, full time site engineer for each substation is a must. After award of the contract, the firm shall immediately inform CSPTCL about nomination of a full time site engineer

and his contact numbers who will be approachable to CSPTCL for all works related to the substation.

**51. E.P.F. CODE:**

The contractor shall submit EPF code allotted by EPF Commissioner to the Engineer-in-charge of the work.

**52. ISSUANCE OF PERMISSION:** The contractor shall obtain permission from The Chief Electrical Inspector, Govt. of CG for energisation of the switch yard well in advance and same shall be submitted to the Engineer-in-Charge of the work, cost if any for the above work shall be born by the contractor.

**53. LIMITATION OF LIABILITY**

Except in cases of gross negligence or wilful misconduct,

- (a) the Contractor and CSPTCL shall not be liable to the other party for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the CSPTCL and
- (b) the aggregate liability of the Contractor to CSPTCL, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify CSPTCL with respect to patent infringement.

**54. LIST OF VENDORS:**

All the equipments/materials shall be supplied strictly as per the “list of vendors” indicated in Section-V of Vol.-1 of this tender document TR-20/10. This vendor list can also be viewed on CSPTCL’s official web-site. The vendor list as on date of issue of NIT shall be applicable for instant tender. No deviation in the vendor list shall be permitted during execution of the project at any stage. The equipments/ materials which are not covered in this vendor list shall be of reputed make with prior approval of CSPTCL.

**55. CHECK LIST:** The check list (Annexure A-27) in respect of various documents/schedules in respect of PQR is required to be submitted by the bidder without which the tender will be considered incomplete and liable for rejection. The bidder should submit all schedules duly filled in along with this offer. The bidder should fill the check list carefully and they will be solely responsible for any mismatch in attached documents/annexures.

\*\*\*\*\*

*- (End of Section-II) -*

# SECTION- III

Annexures,

Schedules

&

Forms

**ANNEXURE – A-1****GENERAL INFORMATION**

The bidders shall furnish general information in the following format:-

1. Name of the Firm
2. Head Office address
3. Contact Person
4. Mobile No. of contact person
5. Telephone No. Office
6. Telephone No. Residence
7. Fax No.
8. E-mail:-
9. Place of incorporation / Region
10. Year of incorporation / Region

Date  
Place

SIGNATURE OF BIDDER  
NAME  
DESIGNATION  
(SEAL)

**ANNEXURE – A-2**  
**DECLARATION FORM**

Tender specification No. TR-20/10

To,

Sir,

1. Having examined the above specification together with tender conditions referred to therein. I/We the undersigned hereby offer to execute the work contract covered therein complete in all respect as per the specification and general conditions, at the rates entered in the attached contract Annexure – of prices in the tender. Our offer is valid upto 180 days from the date of tender opening and the prices, which are on firm basis, will remain valid till the completion of the work.
2. I/We hereby undertake to have the works completed within the time specified in the tender.
3. I/We certify to have purchased a copy of the Specification by remitting cash demand draft and this has been acknowledged by you in your letter no. \_\_\_\_\_ dtd. \_\_\_\_\_.
4. In the event of work order being decided in my/our favour, I/We agree to furnish the Bank Guarantee in the manner acceptable to CSPTCL and for the sum as applicable to me/us as provided in the General conditions of contract (Section-II) of this specification within 30 days of issue of work order, failing which I/We clearly understand that the said work order will be liable to be withdrawn by CSPTCL.

Signed this \_\_\_\_ day of \_\_\_\_\_ 2020.

Yours faithfully,

(This form should be duly filled up by the bidder & submitted along with the original copy of tender.)

Date

SIGNATURE OF BIDDER

Place

NAME

DESIGNATION

(SEAL)

### ANNEXURE A-3: QUESTIONNAIRE

**Note :** The bidders may please note that submission of this questionnaire duly and properly filled in all respect is essential. While in entries against the questions given below, no reference should be made to comments entered elsewhere in the tender. All queries should be answered and these answers should be complete in themselves. Please note that none of the column should be left blank and clear reply against all columns should be furnished. **In case this is not done the offers will be liable for rejection.**

**“Bidders to note this to avoid bid rejection”:** It will be the responsibility of the sole bidder/ partners of joint venture (JV)/ consortium to make sure that all the documents required as per tender are submitted along with bid on or before due date of tender. The bid submission date is cut-off date of submission of all the documents required as per tender and every bidder must adhere to this dead line. If a bidder has quoted ‘NIL’ deviations in Annexure A-9 (Deviation from technical specification / condition) and Annexure A-10 (Deviation from Commercial conditions of contract), this will have an overriding effect on any other conditions noted as deviations elsewhere in the bid.

**Please note that in case of any of the required document is not submitted along with the bid; the bid will be rejected without any further correspondence in the matter.**

1.	Name and address of tenderer. Telephone & fax No.	
2.	Mention GST registration number	
3.	i. Whether you are State or Central Govt. Undertaking/unit with 100% Govt. share. ii. If yes, whether documentary evidence in support of the above has been enclosed. (In absence of documentary evidence your claim to be State/ Central Govt. under-taking shall be ignored.)	Yes / No
4.	Mention Earnest Money furnished 1. Amount & Bank Draft No. 2. Proof of support of EPM Region/ DGS&D/ NSIC	
5.	Mention Tender cost (amount & DD Number)	
6.	Whether dully filled in check list (Annexure A-27) is enclosed	Yes / No
7.	Whether the offer is valid for 180 days from the date of opening of commercial/tech. bid	Yes / No
8.	For all equipments& accessories, the price shall be FIRM (except for equipments/structures specified in clause 37.1 section-II, Vol-I)	Yes / No
9.	Please confirm that the breakup of prices i.e., cost of equipment (Ex-works, Freight, package& Insurance and GST) has been furnished separately in the Price bid annexures	Yes / No
	a) Confirm that the Ex works price for all supply items are exclusive of GST	Yes /No
	b) Confirm that the unit rate for all Civil works are exclusive of GST	Yes / No
	c) Confirm that the unit rate for ET &C works are exclusive of GST	Yes / No
	d) All Testing charges for all equipments as per specification are included in the price of equipment.	Yes / No
11	<b>Terms of payment</b> – Whether agreeable to CSPTCL’s terms or not?	Yes / No
12	Please confirm that you have noted the responsibility for payment of taxes as stipulated in Section-I, Vol-I.	Yes / No
13	Please confirm you have noted & agreed that if the break-up of prices has not been furnished in respective price schedules/annexures and if the prices are furnished as without taxes, then it will be presumed that the GST, cess under BOCWA or any other applicable taxes are included as per prevailing rates in respective price schedules.	Yes / No
14	Schedule date of completion of EHV Sub-station (18 months) - Whether agreeable to CSPTCL’s terms	Yes / No



15	Transformer Guarantee Period – Whether agreeable to CSPTCL’s terms	Yes / No	
16	Equipment Guarantee Period – Whether agreeable to CSPTCL’s terms	Yes / No	
17	Liquidated damages– Whether agreeable to CSPTCL’s terms	Yes / No	
18.	Whether agreed to guarantee/extended guarantee period clause	Yes / No	
19.	Whether agreeable to submit 10% BG against SD as per clause-15 GCC section-II, Vol-I	Yes / No	
20.	Whether agreeable to submit BG against Performance guarantee for 5% of the contract price (excluding cost of transformer) & 10% BG against performance guarantee for Power transformer as per clause-12.1 of section-II & additional 10% BG in case of second time failure of power Xmer within the guarantee period as per clause-11.2 of of GCC	Yes / No	
21.	Whether agree to Technical Specifications & drawings as mentioned in Vol-II.	Yes / No	
22.	<p>(a) <b>for sole bidder/lead partner in case of JV:</b> Complete detailed order copy (self attested by authorised signatory of the tender), in support of technical experience criteria of PQR for having constructed &amp; commissioned minimum 1 (one) No. 220 KV (or above voltage class) Sub-station on turnkey basis (with or without supply of power transformer) during last 5 years i.e. FY 2015-16 to FY 2019-20 (between 1<sup>st</sup> Apl’2015 &amp; 31<sup>st</sup> March’2020) <i>against order issued by Power Utilities owned and controlled by central or State Govt. or PSU’s or Govt. organization - Complete order copy along with annexure containing bill of quantity/ scope of work etc shall be invariably submitted in support of technical experience criteria of PQR. <u>The date of order should not be older than 7 years from the date of issue of NIT of the instant tender.</u></i></p> <p>(b) <b>for other partner in case of JV :</b> Complete detailed order copy (self attested by authorised signatory of the tender),in support of technical experience criteria of PQR for having <b>constructed &amp; commissioned minimum 1 No. Bay (either transformer or feeder bay)</b> of 132KV voltage level or higher class on turnkey basis during last 5 years i.e. FY 2015-16 to FY 2019-20 (between 1<sup>st</sup> Apl’2015 &amp; 31<sup>st</sup> March’2020) <i>against order issued by Power Utilities owned and controlled by central or State Govt. or PSU’s or Govt. organization - Complete order copy along with annexure containing bill of quantity/ scope of work etc shall be invariably submitted in support of technical experience criteria of PQR. <u>The date of order should not be older than 7 years from the date of issue of NIT of the instant tender.</u></i></p>	Enclosed or not. If Yes mention Page No.	
23.	<p><b><u>The sole bidder/ both partners of JV shall submit:</u></b> Self attested copy (by authorised signatory of the tender) of performance certificate of corresponding work order (for which orders have been furnished) for successful commissioning &amp; satisfactory operation of the above 1 (one) No. sub-station/ bay (as applicable) for a period of at least one year (from the date of commissioning) as on the date of issue of NIT of instant tender, indicating date of commencement of work and date of commissioning of the sub-station/ bay, duly issued by the concerned Power Utilities owned and controlled by Central or state Govt. or PSUs or Govt. organizations in the name of participating bidder.</p>	Enclosed or not. If Yes mention Page No.	
24.	In support of their ‘Financial Position’, the Bidder (Sole bidder or the JV partners in case of JV bidder) must provide the relevant information, alongwith documentary evidence for the following :-		
A	Turn over Details	Yes/No	
	<b>Financial Year</b>	<b>Turn over (in Cr)</b>	
	Do you have submitted audited balance sheet	Yes/No	
		Sole bidder/lead partner	Other partner of JV
	a) 2019-20		
b) 2018-19			

	c) 2017-18			
	d) 2016-17			
	e) 2015-16			
B	Net worth details ( with Self attested copies by authorised signatory)of the balance sheets for last 3 yrs):-			Yes/No
	Financial Year	Net worth (in Cr)		
		Sole bidder/ lead partner	Other partner of JV	
	a) 2019-20			
	b) 2018-19			
	c) 2017-18			
C	Liquid Assets			
	Details of evidence of liquid assets(LA)			
	Details of evidence of of access to or availability of credit facilities (Bank Certificate)			
D	Whether self attested copies of profit and loss account statement of the balance sheet for the last 5 financial years have been furnished.			Yes/No
E	Whether certificate of CA, in original that the bidder has discharged all its payment obligations (principal/interest) on outstanding debentures(i.e. debentures which have not yet been redeemed),if any and no such payments as on 30.09.2020 should be outstanding/overdue <b>AND</b> the bidder is not presently in default in payment of any bank loan or interest thereon for more than three months or any loan account of the bidder should not have been classified as NPA (Non Performing Assets) by the creditor/ lending bank, as on date of issue of NIT, have been furnished.			Yes/No
25.	Whether the declaration is furnished that the bidder is not debarred/ blacklisted by Bank/State Govt/Central Govt./State PSU/CPSU/SEB/public utility .			Yes/No
26.	Whether self attested copy duly certified by CA, indicating Liquid assets, for sole / lead partner of JV and the other partner of JV is enclosed.			Yes/No
27.	Particulars of Contractor's "A" class H.T. License:- a. Licence Number. b. Name of Person. c. Valid Upto. d. Name of state level license issuing authority.			Yes/No
28	Copy of EPF code number allotted by EPF Commissioner			Yes/No
29.	<b>GUARANTEED LOSSES OF OFFERED POWER TRANSFORMER:</b> <i>This information is mandatory or else the bid shall be considered as non-responsive and liable for rejection. The losses for offered transformer should be within the prescribed range for respective losses.</i>			160 MVA, 220/132 /33 KV X-MER
	i) No Load Loss at 75°C & Normal Tap			
	ii) Load loss at rated voltage and rated frequency at 75°C & Normal Tap			
	iii) Auxiliary Loss at 75°C & Normal Tap			
31.	Please confirm that you have noted and agree to the conditions stipulated in clause 5 of section-I, volume-I & sub-clause 5.2.1 of Section-I of volume II that if the losses of offered power transformers exceeds the permissible limit of respective losses then your bid shall be rejected.			Yes/No
32.	Please also confirm that you have noted & agreed to our requirement of liability towards Excess Guaranteed Losses for supply of Power Transformers as stipulated in clause no.5.2.2 of Section-I, Vol-II, that if during final testing of power Xmer, the measured losses (individually) exceeds the values guaranteed by the bidder then the respective transformer will not be accepted			Yes/No
33.	Whether you agree for inspection by CSPTCL's representative prior to despatch and bear the testing charges for all tests as per IS to be conducted on samples, drawn by CSPTCL's representative.			Yes/No

34.	Please confirm that you have noted & agree to submit price adjustment invoices for supplies, positively within 6 (Six) months from date of supply of equipment/ material, whether positive or negative, as stipulated in clause 37 section-II, Vol-I	Yes/No
35.	Whether testing facilities for carrying out the type, acceptance and routine tests as per relevant is specification, on the materials offered are available with the manufacturer. If so, please furnish the list of testing machines and relevant details.	Yes/No
36.	Whether details of departures/ deviation from specification have been furnished in the respective schedule.	Yes/No
37.	Whether details of technical manpower of head office and field organisation furnished in respective schedule.	Yes/No
38.	Whether agreeable to arrange for storage cum erection insurance of substation equipments/materials as per relevant clause of the specification.	Yes/No
39.	Please indicate if use of private/forest/canal service of roads for transport of materials and constructional personnel if required, then the charges, if any, levied by the concerned authorities will be borne by you, without any extra cost to the <b>CSPTCL</b> .	Yes/No
40.	Have you furnished the power of attorney in respect of the person signing the tender on behalf of the bidder?	Yes/No
41.	Whether submitted Precontract Integrity pact with confirmation that no addition/ deletion has been made and if, at later stage any discrepancy is found as compared to the text of integrity pact attached with the tender document, you will be bound to correct the same.	Yes/ No
42.	Whether agree to supply all the equipments and materials as per our tender specification and as per "list of vendors" indicated in Annexure A-24, Section-III, Vol.I of tender document & displayed in CSPTCL's official website as on the date of issue of NIT and you will not seek any deviation from vendor list in the event of award of contract.	Yes/ No

Note : Bidder shall use above questionnaire sheets in original for furnishing reply alongwith this offer. However if separate sheets are used for this questionnaire, it may please be ensured that the serial order and language of questions is maintained.

Date  
Place

SIGNATURE OF TENDERER  
NAME DESIGNATION WITH SEAL

**ANNEXURE – A-4**  
**UNDERTAKING FOR PERSONNEL CAPABILITIES**

*(To be furnished for Sole bidder/Lead Partner as well as other Partner of JV)*

I/We M/s ----- (designation) of ----- (Name of bidder) hereby undertake that we have adequate experienced personnel with necessary license/workman permit issued by the Electrical Licensing to execute the project and the details are hereunder:

**1) PERSONNEL IN MANAGERIAL POSITION**

Sl. No.	Name of person with designation	Educational/Tech. Qualifications	Year of experience	Details of Licence

**2) PERSONNEL IN SUPERVISORY POSITION**

Sl. No.	Name of person with designation	Educational/Tech. Qualifications	Year of experience	Details of Licence

**3) PERSONNEL IN WORKMEN CATEGORY**

SL. No.	Name of person with designation	Educational/Tech. Qualifications	Year of experience	Details of Licence

Date

Place

SIGNATURE OF BIDDER

NAME

DESIGNATION

(SEAL)

**ANNEXURE – A-5  
EQUIPMENT CAPABILITIES**

I/ We ----- (designation) M/s ----- (Name of bidder)

hereby undertake that we have adequate tools and plants Grequired for execution of various activities involved in construction of EHV Substation

Date

SIGNATURE OF BIDDER

Place

NAME

DESIGNATION

(SEAL)

**ANNEXURE – A-6**  
**FINANCIAL CAPABILITIES**  
**ANNUAL TURNOVER**

*(To be furnished for Sole bidder/Lead Partner as well as other Partner of JV)*

Name of the bidder

(The bidder is requested to complete the information in this Annexure. The information supplied should be the annual turnover duly audited by the Chartered Accountant for preceding three years of work in progress or completed.)

**ANNUAL TURNOVER& NET WORTH DATA**

	FINANCIAL YEAR	TURN OVER (in Rs.)	NET WORTH (in Rs.)
1	2015-16		
2	2016-17		
3	2017-18		
4	2018-19		
5	2019-20		
<b>Average Annual Turn Over</b>			

The bidder shall also furnish the following information:

1. Name of Banker:
2. Address of Banker:
3. Telephone:
4. Contact Name and Title:
5. Fax / Telex

Financial information in Rupees	Actual previous three years			Projected Next Two years.	
	1	2	3	1	2
1. Total assets					
2. Current assets					
3. Total liabilities					
4. Current liabilities					
5. Profit before taxes					

**Proposed sources of financing**

	Source of financing	Amount (Rs.)
1.		
2.		
3.		

**Attach audited financial statements for the last three years.**

Date

SIGNATURE OF BIDDER

Place

NAME

DESIGNATION

(SEAL)

**ANNEXURE – A-7**  
**FORMAT FOR EVIDENCE OF ACCESS TO OR AVAILABILITY OF**  
**CREDIT/FACILITIES**

*(To be furnished for Sole bidder/Lead Partner as well as other Partner of JV)*

**BANK CERTIFICATE**

This is to certify that M/s..... *(insert Name & Address of the Contractor)* who have submitted their bid to .....*(insert name of the Employer)*..... against their tender specification vide ref. No. .... for ..... *(insert name of the project along with the project name)* ..... is our customer for the past ..... years.

Their financial transactions with our Bank have been satisfactory. They enjoy the following fund based and non fund based limits including for guarantees, L/C and other credit facilities with us against which the extent of utilization as on date is also indicated below:

Sl. No.	Type of Facility	Sanctioned Limit as on Date	Utilisation as on Date	Unutilized limit/Balance as on date

This letter is issued at the request of M/s. \_\_\_\_\_.

Signature \_\_\_\_\_

Name of Bank \_\_\_\_\_

Name of Authorised Signatory \_\_\_\_\_

Designation \_\_\_\_\_

Phone No. \_\_\_\_\_

Address \_\_\_\_\_

**DATE & SEAL OF THE BANK**

**ANNEXURE – A-8**

**EXPERIENCE RECORD**

The bidder shall furnish details of work orders for similar nature of erection work received during the last three years & already completed and under execution.

Sl. No.	Work order/ No. & date	Name & address of CSPTCL	Value of contract	Scheduled date of delivery/ completion of work	slippage with	Remarks

Date

Place

SIGNATURE OF BIDDER

NAME

DESIGNATION

(SEAL)



**ANNEXURE – A-9****DEVIATION FROM TECHNICAL SPECIFICATION/CONDITIONS**

Bidder shall enter below particulars of his alternative proposals for deviation from the specification, if any. If a bidder has quoted 'NIL' deviations in the bid, this will have an overriding effect on any other conditions noted as deviations elsewhere in the bid and no correspondence will be made to withdraw such specific contradictory conditions

SL. No.	Clause No. of Specification	Particulars of deviation	Remarks

Date  
Place

SIGNATURE OF BIDDER  
NAME  
DESIGNATION  
(SEAL)

**ANNEXURE – A-10**  
**DEVIATION FROM THE COMMERCIAL CONDITION OF CONTRACT**

The bidder shall enter below, departure if any, from the conditions of contract as herein. If a bidder has quoted 'NIL' deviations in the bid, this will have an overriding effect on any other conditions noted as deviations elsewhere in the bid and no correspondence will be made to withdraw such specific contradictory conditions.

SL. No.	Clause No. of Specification	Particulars of deviation	Remarks

Date

Place

SIGNATURE OF BIDDER

NAME

DESIGNATION

(SEAL)

**ANNEXURE – A-11****COMPLETION SCHEDULE FOR SUB-STATION**

S.No.	Description of work	Period in months from date of order		Dates calendar monthwise	
		Commencement	Completion	From	To
<b>FOR EHV SUB-STATION</b>					
1.	Submission of PERT chart, sub-station layout & elevation drawings, equipment drawings, earthing of S/S etc.				
2.	Constn. of Civil foundation work of equipments & structure, etc.				
3.	Constn. of Control room building & other switch yard civil works etc.				
4.	Supply of structure & switch yard equipment including stringing material etc.				
5.	Supply of control room equipments, control cables etc.				
6.	Supply of T&P, furniture, ADLS, etc.				
7.	Erection of structures/equipments in switch yard				
8.	Erection of control room equipments etc.				
9.	Testing & Commissioning of equipments etc.				

NOTE:- Bar chart showing the commencement and completion of various activities indicated above for completion of line shall be furnished alongwith this schedule in the offer.

Date

Place

SIGNATURE OF BIDDER

NAME

DESIGNATION

(SEAL)

**ANNEXURE – A-12****LITIGATION HISTORY OF THE BIDDER**

*(To be furnished for Sole bidder/Lead Partner as well as other Partner of JV)*

Name of the bidder:

The bidder should provide detailed information on any litigation or arbitration arising out of contracts completed or under execution by it over the last five years. A consistent history of awards involving litigation against the bidder or any partner of JV may result in rejection.

Year	Name of client, cause of litigation/ arbitration and matter in dispute	Details of contract and date	Award for or against bidder	Disputed amount (current value in Rs.)
1				
2				
3				
4				
5				

Date

SIGNATURE OF BIDDER

Place

NAME

DESIGNATION

(SEAL)

**ANNEXURE – A -13****CURRENT CONTRACT COMMITMENTS**

Bidders should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

<b>Current Contract Commitments</b>					
S. No.	Name of Contract	Employer's Contact Address, Tel, Fax	Value of Outstanding Work[Rs.]	Estimated Completion Date	Average Monthly Invoicing Over Last Six Months [Rs.]
1					
2					
3					
4					
5					

Place

SIGNATURE OF BIDDER

NAME

DESIGNATION

(SEAL)

**ANNEXURE – A -14**  
**PROFORMA FOR AGREEMENT**

(To be executed on non judicial stamp paper worth Rs.300/- only with a revenue stamp of Rs. 1/- affixed on it)

This Agreement is made this \_\_\_\_\_ day of \_\_\_\_\_ between Shri \_\_\_\_\_ on behalf of the Contractor \_\_\_\_\_ (hereinafter called the Contractor which expression shall where the context so admits, be deemed to include his heirs, executors, administrators and representatives) of the one part, and the Chhattisgarh State Power Transmission Company Limited, Raipur being the Company constituted under Companies Act, 1956, (hereinafter called the CSPTCL which expression shall, where the context so admits, be deemed to include its successors in office and permitted assigns) of the other part.

WHEREAS in accordance with a Tender no. \_\_\_\_\_ dtd. \_\_\_\_\_ issued by Chief Engineer (P&P) of the CSPTCL, the Contractor submitted his tender dated \_\_\_\_\_ for

(i) **Construction of 220/132/33 KV Sub-station Patan**

All these works on turnkey basis more particularly described, mentioned, enumerated or referred to in the general conditions, specifications, schedules, drawings etc. forming part of tender, covering letters, schedule of prices and further correspondence, a copy of which is hereto annexed and is for purposes of identification signed by the contractor \_\_\_\_\_ on behalf of the contractor and Chief Engineer (P&P) of CSPTCL and all of which shall be deemed to form part of this agreement as though separately set out herein and are included in the expression "Contract" herein used (herein after referred to as the said works).

AND WHEREAS the CSPTCL has accepted the tender of the Contractor vide following separate work Orders which have been placed by CSPTCL for construction of aforesaid works on turnkey basis for the total net price of \_\_\_\_\_ upon the terms and subject to the condition hereinafter mentioned.

NOW THEREFORE THIS AGREEMENT WITNESSES AND IT IS hereby agreed as follows:

1. The contractor shall undertake following works :
  - (i) Supply for design, supply of galvanising steel structure for equipments, gantry, bus and lighting towers etc. for supply of Transformer, all switchyard & control room equipments with recommended spares, and supply of testing equipments, T&P and furniture etc. for new 220/132/33 KV S/S at Patan.
  - (ii) The contractor shall perform civil works like construction of control room building, construction of earth pits, construction of concrete works, RCC works, Cable trenches, Sanitation and water supply arrangement, excavation, back filling, yard levelling /metalling, peripheral fencing with iron gates of the switch yard, foundations of all equipment/structures and all other works detailed in the respective work order.
  - (iii) Erection, testing & commissioning of all the equipment of all the substations as detailed in the respective orders within the time specified in and in accordance with the terms and conditions specified in the CSPTCL aforesaid Work Orders.

2. The contractor shall commence the works described in the Notice Inviting Tender No. 02-04/NIT/TR-20/10/1308, dated 02.12.202, namely, the construction of 220/132/33 KV Sub-station **Patan** [the "Works"], simultaneously and thereafter execute the works in parallel in accordance with the completion schedule submitted in the format set out in Annexure A-11 of Section IV (Annexures, Schedules & forms), Volume I of the Tender Specifications No. TR-20/10, read with the PERT Network / Bar Chart submitted in accordance with clause 3 of the General Conditions of Contract for Sub-station Work. The Works shall be completed by the contractor on turnkey basis not later than eighteen (18) months from the date the contractor is handed over the site for construction of the Sub-station. In the event the contractor fails to undertake the Works in accordance with the Schedule, the contractor may be liable for penalty at the discretion of CSPTCL in terms of clause 7 of the General Conditions of Contract for Sub-station work.
3. In the event of a conflict or contradiction between: (a) any provision(s) in this agreement and any provision(s) in the Tender Specifications No. TR-20/10, i.e. the tender document, the provision(s) of this agreement shall prevail to the extent of such conflict, and (b) two or more provisions in the tender document, the provision(s) laying down more stringent obligations on the contractor shall prevail."
4. For the work done under the scope of the CSPTCL Work Orders referred above, the CSPTCL shall pay to the Contractor a total sum of Rs. \_\_\_\_\_ (In words Rupees \_\_\_\_\_) or such other sum as may become payable in accordance with the said work order.
5. If at any time, any question, dispute or difference whatsoever arises between CSPTCL and the contractor upon, in relation with or in connection with this contract either party may forthwith give the other party a notice in writing of the existence of such question, dispute or difference and same shall be referred to the adjudication of three Arbitrators one to be nominated by CSPTCL, the other by the Contractor and third to be appointed by the two Arbitrators nominated by the parties at the commencement of arbitration proceedings and failing agreement between them, in accordance with the Arbitration and Conciliation Act 1996, the third Arbitrator so appointed shall act as the Presiding Arbitrator. The award so passed shall be binding on both the parties. The place of arbitration shall strictly be RAIPUR CG.
6. In all matters arising under out of or in relation with this agreement, the terms and conditions contained in the aforesaid Work Orders shall apply and all such matters shall be determined accordingly.
7. This agreement shall be deemed to be entered into at Raipur and all disputes and claims, if any, out of or in respect of this Agreement are to be settled at Raipur or be subject to jurisdiction of competent court situated in Chhattisgarh State.

IN WITNESS whereof the parties hereto have signed this agreement on the dates and year mentioned against their respective signature.

<p><u>Signature of Witness :</u></p> <p>1. Signature : _____</p> <p>Address : _____</p> <p>Signature : _____</p> <p>Address : _____</p>	<p><u>Name &amp; Signature for Contractor</u></p> <p>Signature</p> <p>(On behalf of the Contractor)</p> <p>Name : _____</p> <p>Designation : _____</p> <p>Seal _____</p>
---	--

Signature of Witnesses :

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_

Signature  
(On behalf of CSPTCL)

Name \_\_\_\_\_

Designation \_\_\_\_\_



**ANNEXURE – A- 15**  
**PROFORMA FOR BANK GUARANTEE TOWARDS SECURITY DEPOSIT**  
 (To be executed on non-judicial stamp paper of Rs. 250/- and  
 Revenue stamp may be affixed on Bank Guarantee)

Bank Guarantee No..... Dated.....

In consideration of the Chhattisgarh State Power Transmission Company Limited, Raipur (A successor company of Chhattisgarh State Electricity Board, Raipur hereinafter referred to as 'CSPTCL') having agreed to accept this Bank Guarantee in lieu of cash deposit by way of Security for due and faithful performance required from M/s. \_\_\_\_\_ (herein after referred to as "Contractors", the Bank of \_\_\_\_\_ hereby agrees unequivocally and unconditionally to pay within 48 hours on demand in writing from the Chhattisgarh State Power Transmission Company Limited or any officer authorized by it in this behalf of any amount upto and not exceeding Rs.....(in words) ..... only to the said Chhattisgarh State Power Transmission Company Limited on behalf of the aforesaid M/s ..... who have tendered and contracted for the supply of materials, equipments or services to the said the Chhattisgarh State Transmission Company Ltd, against order No..... dated..... For the order value of Rs.....

The beneficiary of this Bank Guarantee shall be Chhattisgarh State Power Transmission Company Limited, Raipur (A Successor Company of CSEB Raipur). The proceeds / encashment of this Bank Guarantee would go in the name of Chhattisgarh State Power Transmission Company Limited, Raipur (A Successor Company of CSEB Raipur).

This agreement should be valid and binding on this bank up to and including \_\_\_\_\_ 20\_\_ or for such further period as may here under be mutually fixed from time to time in writing by the Chhattisgarh State Transmission Company Ltd. And the contractor shall not be terminable by notice or any change in the constitution of the aforesaid bank or the firm of Contractors or by any others reasons whatsoever and the Banker's liability hereunder shall not be impaired or discharged by any extension of time or variations or alteration made, given conceded or agreed to with or without the Bank knowledge or consent by or between the Chhattisgarh State Transmission Company Ltd. and contractor in the existing and / or further tenders and / or contracts.

It is agreed by the Bank with the CSPTCL that if for any reason a dispute arises concerning the Bank's liability to pay the requisite amount to the CSPTCL under the terms of this guarantee the competent court at Raipur alone shall have the jurisdiction to determine the said dispute and that this shall be without prejudice to the liability of the Bank under the terms of this guarantee being unequivocal and unconditional as mentioned above.

The liability under this guarantee is restricted to Rs..... (in words) ..... only. This guarantee shall remain in force until ..... Unless a demand to enforce a claim under the guarantee is made under this Bank Guarantee by the CSPTCL to the Bank within six months from that date the rights of the Chhattisgarh State Transmission Company Ltd. Under this guarantee shall be forfeited and Bank shall be relieved and discharged from all liabilities there under.

WITNESSES:-

SIGNATURES

Authorized Signatories of Bank

- 1. ....
- 2. ....

Signed. \_\_\_\_\_  
 for \_\_\_\_\_ Bank

**ANNEXURE – A- 16**  
**PROFORMA FOR BANK GUARANTEE TOWARDS PERFORMANCE**

(To be executed on non-judicial stamp paper of Rs. 250/- and Revenue stamp may be affixed on Bank Guarantee)

Bank Guarantee No..... Dtd.....

In consideration of the Chhattisgarh State Power Transmission Company Limited, Raipur ( A successor company of Chhattisgarh State Electricity Board, Raipur hereinafter referred to as ‘CSPTCL’) having agreed to accept this Bank Guarantee in lieu of cash deposit by way of Security for due and faithful performance required from M/s. \_\_\_\_\_ (herein after referred to as “Contractors”, the Bank of \_\_\_\_\_ hereby agrees unequivocally and unconditionally to pay within 48 hours on demand in writing from the Chhattisgarh State Power Transmission Company Limited or any officer authorized by it in this behalf of any amount upto and not exceeding Rs..... (in words) ..... only to the said Chhattisgarh State Power Transmission Company Limited on behalf of the aforesaid M/s ..... who have tendered and contracted for the supply of materials, equipments or services to the said the Chhattisgarh State Transmission Company Ltd, against order No..... dated..... For the order value of Rs.....

The beneficiary of this Bank Guarantee shall be Chhattisgarh State Power Transmission Company Limited, Raipur (A Successor Company of CSEB Raipur). The proceeds / encashment of this Bank Guarantee would go in the name of Chhattisgarh State Power Transmission Company Limited, Raipur (A Successor Company of CSEB Raipur).

This agreement should be valid and binding on this bank upto and including \_\_\_\_\_ 20\_\_\_\_ of for such further period as may hereunder be mutually fixed from time to time in writing by the Chhattisgarh State Transmission Company Ltd. And the contractor and shall not be terminable by notice or any change in the constitution of the aforesaid bank or the firm of Contractors or by any others reasons whatsoever and the Banker’s liability hereunder shall not be impaired or discharged by any extension of time or variations or alteration made, given conceded or agreed to with or without the Bank knowledge or consent by or between the Chhattisgarh State Transmission Company Ltd. and contractor in the existing and / or further tenders and / or contracts.

It is agreed by the Bank with the CSPTCL that if for any reason a dispute arises concerning the Bank’s liability to pay the requisite amount to the CSPTCL under the terms of this guarantee the competent court at Raipur alone shall have the jurisdiction to determine the said dispute and that this shall be without prejudice to the liability of the Bank under the terms of this guarantee being unequivocal and unconditional as mentioned above.

The liability under this guarantee is restricted to Rs..... (in words) ..... only. This guarantee shall remain in force untildtd ..... Unless a demand to enforce a claim under the guarantee is made under this Bank Guarantee by the CSPTCL to the Bank within six months from that date the rights of the Chhattisgarh State Transmission Company Ltd. Under this guarantee shall be forfeited and Bank shall be relieved and discharged from all liabilities there under.

WITNESSES:-

SIGNATURES

Authorized Signatories of Bank

- 1. .... Signed. \_\_\_\_\_
- 2. .... for \_\_\_\_\_ Bank

**ANNEXURE – A- 17**  
**PROFORMA FOR BANK GUARANTEE FOR LOSS/DAMAGE TO CSPTCL**

*NOTE FOR BIDDERS: (Not to be typed in the Bank Guarantee) To be furnished in non-judicial stamp paper of Rs. 250 applicable as per MP/ Chhattisgarh Duty Act from any Nationalised /Scheduled Bank with a revenue stamp worth Rs.1/- affixed thereon).*

In consideration of the Chhattisgarh State Power Transmission Company Limited, (herein after called “CSPTCL”) having agreed to exempt Ms. \_\_\_\_\_ (herein after called “the said Contractors”) from the demand under the terms and conditions of an agreement No. \_\_\_\_\_ Dated \_\_\_\_\_ made between \_\_\_\_\_ And \_\_\_\_\_ for \_\_\_\_\_ (herein after called “the said agreement”) of security deposit for satisfactory performance of materials ( as detailed in the said agreement) and for the due fulfilment by the said Contractor(s) of the terms and conditions contained in the said agreement, on production of a Bank Guarantee for Rs. \_\_\_\_\_ (Rs. \_\_\_\_\_ Only).

1. We \_\_\_\_\_ Bank (herein after referred to as “the Bank”) at the request of \_\_\_\_\_ contractor(s) do hereby undertake unequivocally and unconditionally to pay to CSPTCL, an amount not exceeding Rs. \_\_\_\_\_ (Rs. \_\_\_\_\_ Only) against any loss or damage caused to or suffered or would be caused to or suffered or would be caused to or suffered by CSPTCL by reason of any breach by the said Contractors(s) of any of the terms or conditions contained in the said agreement.
2. We \_\_\_\_\_ (indicate the name of the bank) Bank do hereby undertake to pay the amounts due and payable under this guarantee without any demer, merely on a demand from CSPTCL stating that the amount claimed is due by way of loss or damage caused to or would cause to or suffered by CSPTCL by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said agreement or by reasons of the Contractor(s).
3. We, the \_\_\_\_\_ (indicate the name of the bank) do hereby further undertake unequivocally and unconditionally pay the amount due and payable under this Guarantee without demer, merely on demand from CSPTCL stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by CSPTCL by reason of each breach by the said Contractor(s) of any of the terms or conditions and failure to perform said Bid. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_.
4. We, the \_\_\_\_\_ (indicate the name of the bank) further agree that the guarantee herein contained shall remain in full force and effect during the aforesaid period of \_\_\_\_\_ days \_\_\_\_\_ and it shall continue to be so enforceable till all the dues of the CSPTCL under or by virtue of the said Bid have been fully paid and its claims satisfied or discharged or till Chief Engineer (P&P), CSPTCL certifies that the terms and conditions of the said Bid have been fully and properly carried out by the said Contractor(s) and accordingly discharge this guarantee. Unless a demand or claim under this discharges from all liability under this guarantee thereafter.

5. We, the \_\_\_\_\_ (indicate the name of the bank) further agree with the CSPTCL that CSPTCL shall have the fullest liberty without our consent and without affecting in any manner our obligations here under to vary any of the terms and conditions of the said Bid or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time only of the powers exercisable by CSPTCL against the said Contractor(s) and to forebear or enforce any of the terms and conditions relating to the said Bid and we shall not be relieved from our liability by reason of any such variation, postpone or extension being granted to the said Contractor or for any forbearance, act or omission on the part of CSPTCL or any indulgence by CSPTCL to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. The beneficiary of this Bank Guarantee shall be Chhattisgarh State Power Transmission Company Limited, Raipur (A Successor Company of erstwhile CSEB Raipur). The proceeds / encashment of this Bank Guarantee would go in the name of Chhattisgarh State Power Transmission Company Limited, Raipur (A Successor company of erstwhile CSEB Raipur).
7. It is agreed to by the Bank with the CSPTCL that if for any reason a dispute arises concerning the Bank Liability to pay the requisite amount to the CSPTCL under the terms of this guarantee the competent court at Raipur alone shall have the jurisdiction to determine the said dispute and that this shall be without prejudice to the liability of the Bank under the terms of this guarantee being unequivocal and unconditional. The beneficiary of this Bank Guarantee shall be Chhattisgarh State Power Transmission Company Limited, Raipur (A Successor Company of erstwhile CSEB Raipur).
8. We, the \_\_\_\_\_ (indicate the name of the bank) lastly undertake not to revoke this Guarantee during its currency except with the previous consent of CSPTCL in writing.

Dated, the \_\_\_\_ days of \_\_\_\_\_ .

WITNESS (SIGNATURE WITH NAME & ADDRESS)

1.

2.

For \_\_\_\_\_  
(Indicate name of Bank)

**ANNEXURE – A- 18****PROFORMA FOR INDEMNITY BOND**

(To be executed on non-judicial stamp paper worth Rs.250/- with a revenue stamp worth Rs.1/- affixed thereon).

THIS INDEMNITY BOND is made this .....day of .....20.....

By M/s. ...., a company registered under the Companies Act (hereinafter called as 'Contractor' or 'Obligator' which expression shall include its successors and permitted assigns) in favour of Chhattisgarh State Power Transmission Company Limited, Raipur being the Company constituted under Companies Act, 1956, (hereinafter called the CSPTCL) and its project for supply of galvanising steel structure for equipments, gantry, bus and lighting towers etc. for supply of all switchyard & control room equipments with recommended spares, and supply of testing equipments, T&P and furniture etc. and complete erection/commissioning thereof.....(hereinafter called "Employer" which expression shall include its successors and assigns):

WHEREAS EMPLOYER has awarded to the 'Contractor' a Contract for supply of galvanising steel structure for equipments, gantry, bus and lighting towers etc. for supply of all switchyard & control room equipments with recommended spares, and supply of testing equipments, T&P and furniture etc. and complete erection/commissioning thereof for.....sub-station vide Order No..... dtd..... and Amendment No.....(applicable when amendments have been issued) (hereinafter called the "Contract") in terms of which Employer is required to hand over various Material to the 'Contractor' for execution of the Contract.

And WHEREAS by virtue of Clause No..... of tender specification No....., the 'Contractor' is required to execute an Indemnity Bond in favour of Employer for the Material handed over to it by Employer for the purpose of performance of the Contract/Erection portion of the Contract (hereinafter called the 'Materials').

Now THEREFORE, This Indemnity Bond witnessed as follows:

1. That in consideration of various Material like Galvanised steel structures, switchyard and control room equipments, testing equipments etc. as mentioned in the Supply Order No..... dated. .... At clause No....., Valued at (Amount in figures) Rs..... (amount in words) (Rupees ..... ) handed over to the 'Contractor' in instalments from time to time for the purpose of performance of the Contract, the 'Contractor' hereby undertakes to indemnify and shall keep Employer indemnified for the full value of the Material. The 'Contractor' hereby acknowledges receipt of the initial instalment of the Material as per details in the schedule appended hereto. Further, the 'Contractor' agrees to acknowledge receipt of the subsequent instalments of the Material as required by Employer in the form of Schedules consecutively numbered which shall be attached to this Indemnity Bond so as to form integral parts of this Bond. It is expressly understood by the 'Contractor' that handing over of the dispatch title documents in respect of the said Materials duly endorsed by Employer in favour of the 'Contractor' shall be construed as handing over of the Material purposed to be covered by such title documents and the 'Contractor' shall hold such Material in trust as a Trustee for and on behalf of Employer.
2. That the 'Contractor' is obliged and shall remain absolutely responsible for the safe transit/protection and custody of the Material at Employer project Site against all risks whatsoever till the Material are duly used/erected in accordance with the terms of the

Contract and the Plant/Package duly erected and commissioned in accordance with the terms of the Contract, is taken over the Employer. The ‘Contractor’ undertakes to keep Employer harmless against any loss or damage that may be caused to the Material.

3. The ‘Contractor’ undertakes that the Material shall be used exclusively for the performance/execution of the Contract strictly in accordance with its terms and conditions and no part of the Material shall be utilized for any other work or purpose whatsoever. It is clearly understood by the ‘Contractor’ that non-observance of the obligations under this Indemnity Bond by the ‘Contractor’ shall interalia constitute a criminal breach of trust on the part of the ‘Contractor’ for all intents and purpose including legal/penal consequences.
4. That Employer is and shall remain the exclusive Purchaser of the Material free from all encumbrances, charges or liens of any kind, whatsoever. The Material shall at all times be open to inspection and checking by the Purchaser’s Representative or other employees/Agents authorized in this regard. Further, Employer shall always be free at all times to take possession of the Materials in whatever form the Materials may be, if in its opinion, the Materials are likely to be endangered, mis-utilized or converted to uses other than those specified in the contract by any acts of omission or commission on the part of the ‘Contractor’ or any other person or on account of any reason whatsoever and the ‘Contractor’ binds himself and undertakes to comply with the directions of demand of EMPLOYER to return the Material without any demur or reservation.
5. That this Indemnity Bond is irrevocable. If at any time any loss or damage occurs to the Material or the same or any part thereof is mis-utilized in any manner whatsoever, then the ‘Contractor’ hereby agrees that the decision of the Purchaser’s Representative as to assessment of loss or damage to the Material shall be final and binding on the ‘Contractor’. The ‘Contractor’ binds itself and undertakes to replace the lost and/or damaged Material at its own cost and/or shall pay the amount of loss to Employer without any demur, reservation or protest. This is without prejudice to any other right or remedy that may be available to Employer against the ‘Contractor’ under the Contract and under this Indemnity Bond.
6. NOW THE CONDITION of this Bond is that if the ‘Contractor’ shall duly and punctually comply with the terms and conditions of this Bond to the satisfaction of Employer, THEN, the above Bond shall be void, but otherwise, it shall remain in full force and virtue.

IN WITNESS WHEREOF, the ‘Contractor’ has hereunto set its hand through its authorized representative under the common seal of the Company, the day, month and year first above mentioned.

For and on behalf of

M/s. \_\_\_\_\_

WITNESS

- |                    |                   |
|--------------------|-------------------|
| 1. Signature ..... | Signature .....   |
| 2. Name .....      | Name .....        |
| 3. Address .....   | Designation ..... |

Authorized representative

2. 1. Signature .....
  2. Name .....
- (Common Seal)

3. Address .....
- (In case of Company)

---

1) Indemnity Bonds are to be executed by the authorized person having the Power of Attorney issued under common seal of the company with authority to execute Indemnity Bonds. The Original Power of Attorney if it is specifically for this Contract or a Photostat copy of the Power of Attorney if it is General Power of Attorney and such documents should be attached to Indemnity Bond.

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**ANNEXURE – A-19****PROFORMA FOR DEED OF EXTENSION OF BANK GUARANTEE**  
(To be executed on N.J. Stamp Rs. 250/-+One Revenue Stamp worth Rs. 1/-)

Extension Deed No \_\_\_\_\_

Date \_\_\_\_\_

B.G. No. \_\_\_\_\_ Date \_\_\_\_\_

C.S. Power Transmission Company Ltd.

Sub: - The Extension of Bank Guarantee No. \_\_\_\_\_ Dated \_\_\_\_\_ for the  
Rs \_\_\_\_\_ Favouring yourself expiring on \_\_\_\_\_.

- i. At the request of our client M/s \_\_\_\_\_ we hereby extend our Guarantee No. \_\_\_\_\_ dtd. \_\_\_\_\_ given on their behalf for the further period from \_\_\_\_\_ to \_\_\_\_\_.
- ii. The beneficiary of this Bank Guarantee shall be Chhattisgarh State Power Transmission Company Ltd (A Successor Company of CSEB).
- iii. Our liability under this guarantee is restricted to Rs \_\_\_\_\_ (Rupees \_\_\_\_\_). This guarantee shall remain in force up to \_\_\_\_\_. Unless a demand to enforce a claim is made under this Bank Guarantee by the CSPTCL to the Bank within six months from the date i.e. up to \_\_\_\_\_ the rights of the CSPTCL under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liability hereunder.

Witness:-

Signed for Bank

1)

2)

**ANNEXURE –A-20****PROFORMA FOR UNDERTAKING BY THE JOINT VENTURE PARTNERS***(To be executed on Non-Judicial Stamp Paper worth Rs. 100.00 & Rs. 1.00 revenue stamps)*

THIS JOINT DEED OF UNDERTAKING executed on this..... day of..... Two Thousand and..... by ..... a company incorporated under the laws of ..... and having its Registered Office at .....(hereinafter called the “Lead Partner” which expression shall include its successors, executors and permitted assigns) and M/s..... a company incorporated under the laws of .....and having its Registered Office at ..... (hereinafter called the “Other partner” which expression shall include its successors, executors and permitted assigns ) for the purpose of making a bid and entering into a contract [hereinafter called the “Contract” {in case of award}] against the Specification No **TR-20/10** for ..... (*insert name of the project* ) of C.S. Power Transmission Co. Ltd, a Company incorporated under the Companies Act of 1956 having its registered office at Dangania, Raipur (hereinafter called the “CSPTCL”).

AND WHEREAS CSPTCL invited bids as per the above mentioned Specification for construction of .....stipulated in the bidding documents under Specification No **TR- 20/10**(*insert name of the project*)

AND WHEREAS Qualification Criteria of the specification stipulates that an Undertaking of not more than two firms as partners, meeting the requirements of Qualification Criteria, as applicable may bid, provided, the Joint Venture fulfills all other requirements of Qualification Criteria and in such a case, the Bid Forms shall be signed by both the partners so as to legally bind the Partners of the Joint Venture, who will be jointly and severally liable to perform the Contract and all obligations hereunder.

**The above clause further states that this Undertaking shall be attached to the bid and the Contract performance guarantee will be as per the format enclosed with the bidding document without any restrictions or liability for either party.**

AND WHEREAS the bid is being submitted to CSPTCL vide proposal No.....dated ..... by the “Lead Partner” based on this Undertaking between both parties; under these presents and the bid in accordance with the requirements of Tender specification & Qualification Criteria has been signed by both the parties.

NOW THIS UNDERTAKING WITNESSETH AS UNDER:

In consideration of the above premises and agreements the parties of this Deed of Undertaking do hereby declare and undertake:

1. In requirement of the award of the Contract by the CSPTCL to the Joint Venture Partners, we, the Parties do hereby undertake that M/s..... shall act as “Lead Partner” and further declare and confirm that we the parties to the Joint Venture shall jointly and severally be bound unto the CSPTCL for the successful performance of the Contract and shall be fully responsible for the design, supply, erection, testing, commissioning and successful performance of the project in accordance with the Contract.
2. In case of any breach or default of the said Contract by the Lead Partner of the Joint Venture, the other partner do hereby undertake to be fully responsible for the successful performance of the Contract and to carry out all the obligations and responsibilities under the Contract in accordance with the requirements of the Contract.
3. Further, if the CSPTCL suffers any loss or damage on account of any breach in the Contract or any shortfall in the performance of the equipment/ material in meeting the performances guaranteed as per the specification in terms of the Contract, the Party(s) of these presents undertake to promptly make good such loss or damages caused to the CSPTCL, on its demand without any demur. It shall not be necessary or obligatory for the CSPTCL to proceed against Lead Partner to these presents before proceeding against or dealing with the other Party(s), CSPTCL can proceed against other partner who shall be jointly and severally liable for the performance and all other liabilities/obligations under the Contract to the CSPTCL.
4. The financial liability of the Parties of this Deed of Undertaking to the CSPTCL, with respect to any of the claims arising out of the performance or non-performance of the obligations set forth in this Deed of Undertaking, read in conjunction with the relevant conditions of the Contract shall, however not be limited in any way so as to restrict or limit the liabilities or obligations of any of the Partners of this Deed of Undertaking.



- 5. It is also understood that this Undertaking is provided for the purposes of undertaking joint and several liabilities of the partners to the Joint Venture for submission of the bid and performance of the Contract and that this Undertaking shall not be deemed to give rise to any additional liabilities or obligations, in any manner or any law, on any of the Parties to this Undertaking or on the Joint Venture, other than the express provisions of the Contract.
- 6. This Undertaking shall be construed and interpreted in accordance with the provisions of the Contract.
- 7. In case of an award of a Contract, we the parties to this Deed of Undertaking do hereby agree that we shall be jointly and severally responsible for furnishing a Contract performance security from a bank in favour of the CSPTCL in the currency/currencies of the Contract.
- 8. It is further agreed that this Deed of Undertaking shall be irrevocable and shall form an integral part of the bid and shall continue to be enforceable till the CSPTCL discharges the same or upon the completion of the Contract in accordance with its provisions, whichever is earlier. It shall be effective from the date first mentioned above for all purposes and intents.

IN WITNESS WHEREOF, the Parties to this Deed of Undertaking have through their authorized representatives executed these presents and affixed Common Seals of their companies, on the day, month and year first mentioned above.

Seal of .....  
 has been affixed in my/ our  
 presence pursuant to Board of  
 Director's Resolution dated .....  
 Name .....  
 Designation .....  
 Signature .....

For "Lead Partner"  
 For and on behalf of M/s  
 .....  
 (Signature of the authorized  
 Representative)

WITNESS :

I.....

II. ....

Seal of .....  
 has been affixed in my/ our  
 presence pursuant to Board of  
 Director's Resolution dated .....  
 Name .....  
 Designation .....  
 Signature .....

For "other Partner"  
 For and on behalf of  
 M/s.....  
 (Signature of the authorized  
 representative)

WITNESS :

I.....

II. ....

**Note :**

- 1. The non-judicial stamp papers of appropriate value shall be purchased in the name of Joint Venture and the date of purchase should not be later than six months of date of execution of the Undertaking.
- 2. The Undertaking shall be signed on all the pages by the authorized representatives of each of the partners and should invariably be witnessed.

**ANNEXURE –A-21**

**PROFORMA FOR POWER OF ATTORNEY FOR JOINT VENTURE**

*(To be executed on Non-Judicial Stamp Paper worth Rs. 100.00 & Rs.1.00 revenue stamps)*

KNOW ALL MEN BY THESE PRESENTS THAT WE, the Partners whose details are given hereunder ..... have formed a Joint Venture under the laws of ..... and having our Registered Office(s)/Head Office(s) at ..... (hereinafter called the 'Joint Venture' which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators and assigns) acting through M/s ..... being the "Lead Partner" do hereby constitute, nominate and appoint M/s.....(*Lead Partner*) a Company incorporated under the laws of ..... and having its Registered/Head Office at ..... as our duly constituted lawful Attorney (hereinafter called "Attorney" or "Authorized Representative" or "Partner In-charge") to exercise all or any of the powers for and on behalf of the Joint Venture in regard to Specification No **TR-20/10**.. the bids for which have been invited by Chief Engineer(Planning& Projects), Dangania, Raipur of C.S. Power Transmission Co. Ltd. (CSPTCL) to undertake the following acts :

- i) To submit proposal and participate in the aforesaid Bid Specification of the CSPTCL on behalf of the "Joint Venture".
- ii) To negotiate with the CSPTCL the terms and conditions for award of the Contract pursuant to the aforesaid Bid and to sign the Contract with the CSPTCL for and on behalf of the "Joint Venture".
- iii) To do any other act or submit any document related to the above.
- iv) To receive, accept and execute the Contract for and on behalf of the "Joint Venture".

It is clearly understood that the Lead Partner shall ensure timely execution of the Contract. In case of any breach of contract by any of the joint venture/consortium partners during execution of the contract, it will be the sole discretion of CSPTCL to allow the other partner to complete the work or to terminate the total contract.

It is expressly understood that this Power of Attorney shall remain valid binding and irrevocable till completion of the Maintenance Period in terms of the Contract.

The Joint Venture hereby agrees and undertakes to ratify and confirm all the whatsoever the said Attorney/Authorized Representatives/Partner in-charge/Lead Partner quotes in the bid, negotiates and signs the Contract with the CSPTCL and/or proposes to act on behalf of the Joint Venture by virtue of this Power of Attorney and the same shall bind the Joint Venture as if done by itself.

IN WITNESS THEREOF the Partners Constituting the Joint Venture as aforesaid have executed these presents on this .....day of ..... under the Common Seal(s) of their Companies.

For and on behalf of the  
Partners of Joint Venture  
.....  
.....  
.....

The Common Seal of the above Partners of the Joint Venture:

The Common Seal has been affixed there unto in the presence of:

**WITNESS**

1. Signature.....  
Name .....

.....  
Designation .....

.....  
Occupation .....

.....

2. Signature.....  
Name

.....  
Designation

.....  
Occupation

**Note:**

1. The non-judicial stamp papers of appropriate value shall be purchased in the name of Joint Venture and the date of purchase should not be later than six months of date of execution of the Agreement.
2. The Agreement shall be signed on all the pages by the authorized representatives of each of the partners and should invariably be witnessed.

**ANNEXURE-A-22****PRE-CONTRACT INTEGRITY PACT**

*(To be executed on non judicial stamp paper worth Rs 300/-)*

**1. GENERAL**

- 1.1 This pre-bid contract Agreement (hereinafter called the Integrity Pact) is made on.....day of the month .....20..., between the CSPTCL acting through Shri.....CE (P&P) (hereinafter called the “BUYER”, which expression shall mean and include, unless the context otherwise requires, his successors in the office and assigns) and the First Party, proposes to procure (name of the Stores/Equipment/Work/Service) and M/s. .... represented by Shri.....Chief Executive Officer (hereinafter called the “BIDDER/Seller”, which expression shall mean and include, unless the context otherwise requires, his successors on permitted assigns) and the Second Party, is willing to offer/has offered.
- 1.2 WHEREAS the BIDDER is a Private Company/Public Company/ Government undertaking/Partnership/Registered Export Agency, constituted in accordance with the relevant law in the matter and the BUYER is a power company an undertaking of Govt. of CG, performing its function on behalf of the Government of Chhattisgarh.

**2. OBJECTIVES**

- 2.1 NOW, THEREFORE, the BUYER and the BIDDER agree to enter into this pre-contract agreement, hereinafter referred to as Integrity Pact, to avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the Contract to be entered into with a view to:-
- 2.2 Enabling the BUYER to obtain the desired Stores/Equipment/Work/Service at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and
- 2.3 Enabling BIDDERS to abstain from bribing or indulging in any corrupt practices in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing any corrupt practices and the BUYER will commit to prevent corruption, in any form, by its official by following transparent procedures.

**3. COMMITMENTS OF THE BUYER**

The BUYER commits itself to the following:-

- 3.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting of implementation process related to contract.
- 3.2 The BUYER will, during the pre-contract stage, treat BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to the other BIDDERS.
- 3.3 All the officials of the BUYER will report the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with the full and verifiable facts and the same prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an

enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

#### **4. COMMITMENTS OF BIDDERS**

The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-

- 4.1. The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 4.2. The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage, or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the CSPTCL for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the CSPTCL.
- 4.3. The BIDDER further confirms and declares to the BUYER that the BIDDER in the original Manufacture/Integrator/Authorized government sponsored export entity of the stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
- 4.4. The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payment he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 4.5. The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 4.6. The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 4.7. The BIDDER shall not use improperly, for purpose of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposal and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 4.8. The BIDDER commits to refrain from giving any compliant directly or through any other manner without supporting it with full and verifiable facts.
- 4.9. The BIDDER shall not instigate or cause to instigate any third person to commit any of the acts mentioned above.

**5. PREVIOUS TRANSGRESSION**

- 5.1. The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.
- 5.2. If the BIDDER makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

**6. EARNEST MONEY (SECURITY DEPOSIT)**

- 6.1. Every BIDDER while submitting commercial bid, shall deposit an amount as specified in RFP as Earnest Money/Security Deposit, with the BUYER through any of the following instruments:
- (i) Bank Draft or Pay Order in favour of.....
  - (ii) A confirmed guarantee by an Indian Nationalised Bank, promising payment of the guarantee sum to the .....(BUYER).....on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the BUYER shall be treated as conclusive proof of payment.
  - (iii) Any other mode or through any other instrument (to be specified in the RFP).
- 6.2. The Security Deposit shall be valid up to complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and BUYER, including warranty period, whichever is later.
- 6.3. In the case of successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of Sanctions for violation shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 6.4. No interest shall be payable by the BUYER to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

**7. SANCTIONS FOR VIOLATIONS**

- 7.1. Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required:-
- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
  - (ii) To forfeit fully or partially the Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed), as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.
  - (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
  - (iv) To recover all sum already paid by the BUYER, and in case of the Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate while in case of a BIDDER from a country other than India with Interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other contract such outstanding payment could also be utilized to recover the aforesaid sum and interest.

- (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.
- (vi) To cancel all or any other contracts with the BIDDER and the BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- (vii) To debar the BIDDER from participating in future bidding processes of the CSPTCL for a minimum period of five years, which may be further extended at the discretion of the BUYER.
- (viii) To recover all sum paid in violation of this Pact by BIDDER(s) to any middlemen or agent or broken with a view to securing the contract.
- (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.
- (x) If the BIDDER or any employee of the BIDDER or any person action on behalf of the BIDDER, either directly or indirectly, is closely related to any of the officers of the BUYER, or alternatively, if any close relative of an officer of the BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filling of tender. Any failure to disclose the interest involved shall entitle the BUYER to rescind the contract without payment of any compensation to the BIDDER.

The term 'close relative' for this purpose would mean spouse whether residing with the Government servant or not, but not include a spouse separated from the Government servant by a decree or order of a competent court; son or daughter or step son or step daughter and wholly dependent upon Government servant, but does not include a child or step child who is no longer in any way dependent upon the Government servant or of whose custody the Government servant has been deprived of by or under any law; any other person related, whether by blood or marriage, to the Government servant or to the Government servant's wife or husband and wholly dependant upon Government servant.

- (xi) The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER, and if he does so, the BUYER shall be entitled forthwith to rescind the contract and all other contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.

7.2.1. The decision of the BUYER to the effect that a breach of the provisions of this pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Monitor(s) appointed for the purpose of this Pact.

## **8. INDEPENDENT MONITORS**

- 8.1. The BUYER will appoint Independent Monitors (hereinafter referred to as Monitors) for this Pact.
- 8.2. The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 8.3. The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

- 8.4. Both the parties accept that the Monitors have the right to access all the documents relating to the project/ procurement, including minutes of meetings. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/ Subcontractor(s) with confidentiality.
- 8.5. As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.
- 8.6. The Monitor will submit a written report to the designated authority of BUYER/Secretary in the department/within 8 to 10 weeks from the date of reference or intimation to him by the BUYER /BIDDER and, should the occasion arise, submit proposal for correcting problematic situations.

**9. FACILITATION OF INVESTIGATION**

In case of any allegation of violation of any provision of this fact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the books of Account of the BIDDER and the BIDDER shall provide necessary information of the relevant documents and shall extend all possible help for the purpose of such examination.

**10. LAW AND PLACE OF JURISDICTION**

This pact is subject to Indian Law, the place of performance and jurisdiction shall be the seat of the BUYER.

**11. OTHER LEGAL ACTIONS**

The actions stipulated in this integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of any other law in force relating to any civil or criminal proceeding.

**12. VALIDITY**

- 12.1 The validity of this integrity Pact shall be from the date of its signing and extend up to 2 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.
- 12.2. If one or several provision of this pact turn out to be invalid; the reminder of this pact shall remain valid. In such case, the parties will strive to come to an agreement to their original intention.
- 13. The parties hereby sign this integrity Pact at .....on.....

BUYER/BIDDER

Name of Officer

CHIEF EXECUTIVE OFFICER

Destination Department/PSU

Witness

Witness

1).....

1) .....

2).....

2) .....



**ANNEXURE- A- 23**  
**INSPECTION PLAN FOR EQUIPMENTS**

No.	Particular	CSPTCL Inspection	Contractor Inspection
1.	160 MVA, 220/132/33 KV, Xmer with Oil & Accessories	Yes	
2.	220 KV SF <sub>6</sub> circuit breaker with structure complete	Yes	
3.	220 KV Current Transformer having ratio 800-1600/1-1-1-1A	Yes	
4.	Lightning Arrestor 198 KV	Yes	
5.	220 KV Isolator (3- $\phi$ ) without earth switch	Yes	
6.	220 KV Control and relay panel for 160 MVA Transformer	Yes	
7.	Solid core Insulators & Post insulators for bus bars & isolators etc. on 220 KV side		Yes
8.	132 KV SF <sub>6</sub> circuit breaker with structure complete	Yes	
9.	132 KV Current Transformer having ratio 400-800/1-1-1-1A	Yes	
10.	132 KV Potential Xmer having ratio 132KV/ $\sqrt{3}$ /110V/ $\sqrt{3}$	Yes	
11.	Lightning Arrestor 120 KV	Yes	
	132KV COMMUNICATION EQUIPMENT		
12.	Coupling Capacitor	Yes	
13.	Wave trap	Yes	
14.	Carrier Cabinet (double Channel) without protection coupler	Yes	
15.	LMU (phase to phase coupling)	Yes	
16.	Isolator (3- $\phi$ ) with earth switch, 800 Amp	Yes	
17.	Isolator (3- $\phi$ ) without earth switch, 1200 Amp	Yes	
18.	132 KV side C & R panel for 160 MVA, 63 MVA/40 MVA, feeder, Transfer breaker	Yes	
19.	132 KV Solid core Insulators & Post insulators for Isolators & Bus bars supports etc.		Yes
20.	33KV Vacuum Circuit Breaker with Structure	Yes	
21.	33 KV Current Transformer ( i)1200-600/1-1-1-1A (ii)800-400/1-1-1-1A (iii)400-200/1-1-1A	Yes	
22.	33 KV / 72.5 KV Potential X <sup>3</sup> mer	Yes	
23.	33 KV / 39 KV Lightning Arrestor	Yes	
24.	33 KV / 72.5 KV Isolator with insulators	Yes	
25.	33 KV/72.5 KV Solid core Insulator		Yes
26.	36 KV, 12 MVAR Capacitor Bank (72 units + 8 spare), complete	Yes	
27.	33 KV control & relay panel 63 MVA/ 40 MVA, feeder, Transfer breaker, capacitor bank	Yes	
	CONDUCTOR, CLAMPS & CONNECTORS		
28.	Moose/Zebra ACSR Conductor	Yes	
29.	Galvanised Steel Ground Wire 7/3.66 m.m.	Yes	

No.	Particular	CSPTCL Inspection	Contractor Inspection
30.	G.I. Flats for earthing		Yes
31.	Nuts & Bolts of Assorted Sizes		Yes
32.	Clamps Spacers etc. as per requirement	Yes	
33.	Disc Insulators & Hardwares	Yes	
34.	Armoured copper cable	Yes	
35.	Cable trays of various size		Yes
36.	Power Cables of various size	Yes	
37.	P L C C- Cables: 10 pair jellified armoured telephone cables		Yes
38.	P L C C- Cables: H F (Co-axial cable) cable (125Ω(Ohms))		Yes
39.	Illumination fittings & Accessories		Yes
40.	AC /DC boards & Junction Boxes		Yes
41.	G.I. Structure	Yes	
42.	Tools & Plant		Yes
43.	Furniture		Yes

**ANNEXURE –A-24****Vendor List****A ) LIST OF APPROVED VENDORS FOR 220/132 KV SUBSTATION**

SN	Name of equipment		Name of the vendor
1	160 MVA Power Transformer 220 /132 / 33 KV	1	M/s BHEL
		2	M/s CGL
		3	M/s TELK Kerala
		4	M/s Areva / Alstom
		5	M/s ABB
		6	M/s EMCO, Thane
		7	M/s Siemens
		8	M/s Transformer & Rectifiers
		9	M/s Bharat Bijlee Ltd.
2	Tap changer for power transformer	1	M/s BHEL
		2	M/s TELK
		3	M/s Easun MR
		4	M/s MR
		5	M/s CTR
3	245 KV SF6 Gas Circuit Breaker	1	M/s CGL Nasik
		2	M/s Areva / Alstom
		3	M/s Siemens
		4	M/s ABB
		5	M/s BHEL
4	220 KV Current Transformer/ Potential Transformer	1	M/s CGL
		2	M/s BHEL
		3	M/s Siemens
		4	M/s Areva / Alstom
		5	M/s ABB
		6	M/s TELK
		7	M/s SCT, Gaziabad
		8	M/s Hivoltrans
5	220 KV C.V.T.	1	M/s CGL
		2	M/s ABB
		3	M/s Areva / Alstom
		4	M/s BHEL
		5	M/s Mehru Electrical and Mechanical Engineers Pvt. Ltd., Bhiwadi (Rajasthan)
6	220 KV Isolator	1	M/s S&S power switchgear Ltd
		2	M/s HVELM
		3	M/s GR Power, Hyderabad
		4	M/s Siemens
		5	M/s ABB
		6	M/s Areva / Alstom

		7	M/s Danke Electricals
		8	M/s Universal Isolators
		9	M/s Wigman
		10	M/s Engineers Enterprises, Jaipur
7	198 KV Lightning Arrestor	1	M/s CGL
		2	M/s Elpro
		3	M/s Lamco Hyderabad
		4	M/s Oblum, Hyderabad
8	220 KV Wave Trap	1	M/s BPL
		2	M/s Areva / Alstom
		3	M/s Quality Power Electrical Equipments Pvt. Ltd. Sangli.
9	220 KV Control and Relay panel (without relay)	1	M/s Areva / Alstom
		2	M/s Siemens
		3	M/s Easun Reyrolle
		4	M/s GE
		5	M/s Maktel Control, Vadodara
		6	M/s ABB
		7	M/s Danish Pvt. Ltd', Jaipur (Rajasthan)
10	Carrier Cabinet for 220 KV	1	M/s ABB, Mumbai (For protection, speech & telemetering)
		2	M/s BPL (For speech & telemetering only)
11	Disc Insulator-160 KN/ 120 KN/ 90KN/ 70 KN	1	M/s W.S. Insulators
		2	M/s BHEL
		3	M/s Aditya / NGK Birla
12	220 KV Post Insulator	1	M/s W.S. Insulators
		2	M/s BHEL
		3	M/s Aditya / NGK Birla
		4	M/s Modern Insulators
		5	M/s Insulators & Electricals
		6	M/s Sarvana Global Energy Ltd.
13	Sub-station Hardwares/ Clamps & connectors	1	M/s IAC Electrical, Kolkata
		2	M/s Rashtra Udyog
		3	M/s EMI Transmission Ltd., Thane
		4	M/s International Transmission Product
		5	M/s Klemmen Engineering
		6	M/s Electro mech & transtech
		7	M/s Burma Electro
		8	M/s Aarpee & Associates
		9	M/s AK Power Industries Pvt. Ltd.
		10	M/s Supreme & Co. Kolkata
		11	M/s Tag Corporation, Chennai
		12	M/s Modern Malleable

		13	M/s Star Iron
		14	M/s Tyco
		15	M/s DAC
		16	M/s Eritech
		17	M/s Vinay industries, Rajanandgaon
Note:-			
(i)	The names of the vendors are subject to further verification of various documents viz. valid type test report, ISI license (wherever applicable), drawing and GTP etc. at the time of approval for individual project. The inclusion of names of various manufacturers in this list will not relieve the obligation of manufacturer / contractor for furnishing the aforesaid documents.		
(ii)	The name of manufactures whose performance is found unsatisfactory shall be deleted from vendor list.		

**(B) LIST OF APPROVED VENDORS FOR 132 KV SIDE EQUIPMENTS**

SN	Name of equipment		Name of the vendor
1	63, 40 MVA, 132/33 KV Power Transformer	1	M/s BHEL
		2	M/s CGL
		3	M/s TELK Kerala
		4	M/s Areva / Alstom
		5	M/s ABB
		6	M/s EMCO, Thane
		7	M/s Andrew Yule, Chennai
		8	M/s Bharat Bijilee, Mumbai
		9	M/s Toshiba T&D System India Pvt.Ltd., Hyderabad (Formerly M/s Vijai Electricals)
		10	M/s Transformer & Rectifiers,Ahmedabad
		11	M/s Siemens, Gurgaon
		12	M/s. Technical Associates Ltd., Lucknow
2	Tap Changer for Power Transformer	1	M/s BHEL
		2	M/s TELK
		3	M/s Easun MR
		4	M/s MR
		5	M/s CTR
3	132 KV SF6 Circuit Breaker	1	M/s CGL
		2	M/s ABB
		3	M/s Areva / Alstom
		4	M/s Siemens
		5	M/s BHEL
4	132 KV Current Transformer/ Potential Transformers	1	M/s CGL
		2	M/s BHEL
		3	M/s ABB
		4	M/s Areva / Alstom
		5	M/s Siemens
		6	M/s SCT Ltd. Gaziabad
		7	M/s Vidhut Control System Secundrabad

		8	M/s Universal Magnoflux,Indore
		9	M/s TELK
		10	M/s Hivoltrans Elect.
		11	M/s Lamco Hyderabad (132 kV PT only)
		12	M/s Heptacare Power Ind.Meerut
		13	M/s Mehru Electrical and Mechanical Engineers Pvt. Ltd., Bhiwadi (Rajasthan)
5	132 KV Coupling capacitors	1	M/s CGL
		2	M/s Areva / Alstom
		3	M/s ABB
		4	M/s BHEL
6	132 KV Isolators	1	M/s S & S Power Switchgear,Chennai
		2	M/s Hivelm, Chennai
		3	M/s GR Power, Hyderabad
		4	M/s Siemens
		5	M/s ABB
		6	M/s Areva / Alstom
		7	M/s Power Line Accessories, Raipur
		8	M/s Danke Elect. Switchgears,Vadodara
		9	M/s. Elektrolites (Power)
		10	M/s Universal Isolators
		11	M/s Versatec
		12	M/s G K Electricals
		13	M/s Wigman
		14	M/s Engineers Enterprises,Jaipur
7	120 KV Lightning Arrestor	1	M/s CGL
		2	M/s Oblum, Hyderabad
		3	M/s Elpro
		4	M/s Lamco Hyderabad
8	132 KV Wave Trap	1	M/s Areva / Alstom
		2	M/s BPL
		3	M/s Quality Power Electrical Equipments Pvt. Ltd. Sangli.
9	132 KV Control & Relay Panel (without relays)	1	M/s Areva / Alstom
		2	M/s Siemens
		3	M/s ABB
		4	M/s GE
		5	M/s ERL
		6	M/s Danish, Jaipur
		7	M/s Amara Raja
		8	M/s Venson, Bangalore
		9	M/s Maktel Control,Vadodara
		10	M/s Enpro Industrial Automation, Chennai
		11	Ms Schneider Electric
10	Carrier Cabinet for 132 KV	1	M/s ABB, Mumbai (For protection, speech & telemetering)
		2	M/s BPL(For speech & telemetering only)
		3	M/s Puncom (Only for speech)

11	Disc Insulators-90KN/70KN	1	M/s W.S. Insulator, Chennai
		2	M/s BHEL
		3	M/s Aditya/NGK Birla Kolkata
12	132 KV Post Insulators	1	M/s WS Insulators, Chennai
		2	M/s BHEL
		3	M/s Aditya/NGK Birla, Kolkata
		4	M/s Modern Insulator
		5	M/s Insulators & Electricals, Bhopal
13	Sub-station Hardwares/ Clamps & connectors	6	M/s Sarvana Global Energy Ltd.
		1	M/s IAC Electrical, Kolkata
		2	M/s Rashtra Udyog
		3	M/s EMI Transmission Ltd., Thane
		4	M/s International Trasmission Product
		5	M/s Klemmen Engineering
		6	M/s Electro mech & transtech
		7	M/s Burma Electro
		8	M/s Aarpee & Associates
		9	M/s AK Power Industries Pvt. Ltd.
		10	M/s Supreme & Co. Kolkata
		11	M/s Modern Malleable
		12	M/s Tag Corporation, Chennai
		13	M/s Star Iron
		14	M/s Tyco
		15	M/s DAC
		16	M/s Eritech
17	M/s Vinay industries, Rajanandgaon		

**(C) LIST OF APPROVED VENDORS FOR 33 KV SIDE EQUIPMENTS**

SN	Name of equipment	Name of the vendor	
1	33 KV Vacuum Circuit Breaker	1	M/s CGL
		2	M/s Siemens
		3	M/s BHEL
		4	M/s Areva / Alstom
		5	Ms Schneider Electric
2	33 KV Current Transformer / Potential Transformer	1	M/s CGL
		2	M/s Laxmi Engineering
		3	M/s SCT, Gaziabad
		4	M/s Vidyut Control
		5	M/s Universal Magno Flux, Indore
		6	M/s Heptacare Power Ind, Meerut
		7	M/s Hivoltrans Elect.
		8	M/s Mehru Elect & Mech, Bhiwandi
		9	M/s Epitrans (for CT only)
		10	M/s Macroplast (for CT only)
		11	M/s Kapco (for PT only)
		12	M/s GYRO
		13	M/s Ambarnath
3	33 KV Isolators	1	M/s S & S PowerSwitchgear, Chennai

		2	M/s Hivelm, Chennai
		3	M/s GR Power, Hyderabad
		4	M/s Siemens
		5	M/s ABB
		6	M/s Areva / Alstom
		7	M/s Power line Accessories, Raipur
		8	M/s Danke Elect.Switchgears, Vdr
		9	M/s. Elektrolites (Power) Pvt Ltd, Jpr
		10	M/s GK Electricals Bhopal
		11	M/s Universal Isolators
		12	M/s Wigman
		13	M/s High tension Howrah
		14	M/s Versatec
		15	M/s Engineers Enterprises , Jaipur
4	33 KV Lightning Arrestor	1	M/s CGL
		2	M/s Oblum, Hyderabad
		3	M/s Elpro
		4	M/s Lamco Hyderabad
		5	M/s Elektrolite power pvt Ltd Jaipur
5	33 KV Control & Relay Panel (without relays)	1	M/s Areva / Alstom
		2	M/s Siemens
		3	M/s ABB
		4	M/s GE
		5	M/s ERL
		6	M/s Danish , Jaipur
		7	M/s Amara Raja, Tirupati
		8	M/s System Electronics Ltd.
		9	M/s Maktel Control, Vadodara
		10	M/s Venson, Bangalore
		11	M/s Enpro Industrial Automation, Chennai
		12	M/s Hertz Electronics
		13	Ms Schneider Electric
6	Disc Insulators-90KN/70KN	1	M/s W.S. Insulator, Chennai
		2	M/s BHEL
		3	M/s Aditya/NGK Birla, Kolkata
7	33 KV Post Insulators	1	M/s WS Insulators, Chennai
		2	M/s BHEL
		3	M/s Aditya/NGK Birla, Kolkata
		4	M/s Modern Insulator
		5	M/s Insulators & Electricals
		6	M/s Sarvana Global Energy Ltd.
8	Sub-station Hardwares/ Clamps & connectors	1	M/s Rashtra Udyog
		2	M/s IAC Electrical, Kolkata
		3	M/s Electromech & Transtech, Kolkata
		4	M/s Klemmen
		5	M/s International Trasmission Product
		6	M/s Burma Electro
		7	M/s Aarpee & Associates, Kolkata



	8	M/s AK Power Industries Pvt. Ltd.
	9	M/s Supreme & Co. Kolkata
	10	M/s EMI Transmission Ltd., Thane
	11	M/s Modern Malleable
	12	M/s Tag Corporation, Chennai
	13	M/s Star Iron
	14	M/s Tyco
	15	M/s DAC
	16	M/s Eritech
	17	M/s Vinay industries, Rajnandgaon

**(D) LIST OF APPROVED VENDORS FOR OTHER COMMON EQUIPMENTS/ MATERIAL**

SN	Name of equipment		Name of the vendor
1	Energy Meters	1	M/s Secure Meters Ltd. (SEMS)
2	Relays for 400 KV & 220 KV - Distance (Numerical), Differential & REF (numerical), Bay control Unit, Bus bar Protection, Gateway, O/C & E/F, other protective trip and Auxiliary relay, SCADA / SAS)	1	M/s Areva / Alstom
		2	M/s Siemens
		3	M/s ABB
		4	M/s GE
		5	M/s SEL
		6	Ms Schneider Electric
3	Relays for 132 KV & 33 KV -Distance (Numerical), differential & REF (numerical), Over Current / Earth Fault, other protective, trip and Auxiliary relays for 132 KV & 33 KV.	1	M/s Areva / Alstom
		2	M/s Siemens
		3	M/s ABB
		4	M/s GE
		5	M/s SEL
		6	M/s Easun Reyrolle
		7	Ms Schneider Electric
4	Ethernet Switch	1	M/s Ruggedcom
		2	M/s CISCO
		3	M/s Hirschmann
		4	M/s Masibus
5	Annunciator Relay	1	M/s Alan
		2	M/s Bhrani
		3	M/s Minilec
		4	M/s JVS
6	Time Synchronizing Unit	1	M/s Arbiter
		2	M/s SEL
		3	M/s Signal & System
		4	M/s MEINBERG
7	LT Power & Control Cable (Armoured and Unarmoured)	1	M/s Universal Cables Ltd,Satna
		2	M/s Finolex
		3	M/s Torrent cables.
		4	M/s Fort Gloster
		5	M/s Ravin cables, Mumbai
		6	M/s KEI Industries
		7	M/s KEC International
		8	M/s Unisef cables Ghaziabad
		9	M/s Maharaja cables New Delhi

		10	M/s RK Electrical Industries
		11	M/s Balaji Cables
		12	M/s Alpha Communication
		13	M/s Nakoda
		14	M/s Capcab India Ltd.
		15	M/s Deco Industries
		16	M/s Insucon Cables
		17	M/s Pasondia Cables
		18	M/s Scot Innovation (Ekta Cables)
		19	M/s Dashmesh Cables, Mumbai
		20	M/s Omega
		21	M/s NICCO
		22	M/s Havells India Pvt Ltd Alwar Rajsthan
8	Fibre Optic Cables	1	M/s Treston
		2	M/s Fine Core
		3	M/s AMP
		4	M/s Birla Furukawa
		5	M/s Sterlite Technologies Ltd.
9	EHV Cables	1	M/s Poly cab
		2	M/s Havells
		3	M/s KEI
		4	M/s Universal
10	Capacitor Bank	1	M/s Shreem Electrical Ltd.
		2	M/s ABB
		3	M/s BHEL
		4	M/s Mehar
		5	M/s Havells
		6	M/s Universal Cables Ltd,Satna
		7	M/s Madhav Capacitors, Pune
11	Battery Set	1	M/s Exide Industries Ltd., Kolkata
		2	M/s AMCO Batteries Ltd, Chennai
		3	M/s AmaraRaja Batteries Ltd,Tirupati
		4	M/s HBL Nife, Hyderabad
		5	M/s BUI Pvt Ltd, Pune
		6	M/s Kirloskar Batteries, Bangalore
		7	M/s Aaj Accumulator Pvt. Ltd. Kolhapur
12	Battery charger	1	M/s Chhabi
		2	M/s Dubas
		3	M/s HBL Nife, Hyderabad
		4	M/s Amara Raja
		5	M/s AE
		6	M/s Hind Rectifier
		7	M/s Panwa Engineering
		8	M/s ARMO Electricals, Nagpur
		9	M/s AFCO Industrial
		10	M/s Redtron
13	High Mast & its Luminaries	1	M/s Bajaj
14	Light Fixtures/fan & Exhaust fan	1	M/s CGL
		2	M/s Philips

		3	M/s GE
		4	M/s Bajaj
		5	M/s Wipro
		6	M/s Havells
		7	M/s Khaitan(Fans only)
		8	M/s Polar (Fans only)
		9	M/s HPL India Ltd (for lighting fixtures & Luminaires only)
15	Furniture	1	M/s Godrej
16	Filter Machine	1	M/s Vaccum Plant, Pune
		2	M/s Fowler westrup, Bangalore (earlier name M/s John Fowler Bangalore)
17	DG Set	1	M/s Jackson
		2	M/s Cummins
		3	M/s Kirloskar
		4	M/s GE Power System
		5	M/s Shriram Honda
18	RTU	1	M/s ABB
		2	M/s GE
		3	M/s Honeywell
		4	M/s Chemtrol, Goa
19	Steel Structure for Gantry & equipment support structure / Lighting pole/mast etc.	1	M/s KSK
		2	M/s Vijay Transmission
		3	M/s Ashutosh Electrical, Raipur
		4	M/s Shreem Electrical Ltd. Jaisinghpur
		5	M/s Indo East Corporation Pvt. Kolkata
		6	M/s Nandan Steel & Power Pvt. Ltd,Raipur
		7	M/s Ratna Engineering Works, Raipur
		8	M/s IVRCL TLT Pvt. Ltd. , Nagpur
		9	M/s B K Infrastructure Pvt. Ltd. Raipur
20	Earth Wire (7/3.66 mm)	1	M/s Bharat Wire Ropes, Thane
		2	M/s UIC Udyog Limited, Kolkata
		3	M/s Ramswarup Ind. Corp. Nadia
		4	M/s Manoharlal Hiralal, Gaziabad
		5	M/s Ratlam Wires, Ratlam
		6	M/s Cabcon
		7	M/s Usha Martin
21	NIFPS	1	M/s CTR
		2	M/s Easun
22	ACSR Moose conductor	1	M/s Gupta Cable
		2	M/s North East conductor
		3	M/s Unity Conductors
		4	M/s Galaxy Transmission Ind. Sangali
		5	M/s Apar Industry, Silvasa/Nalagarh
		6	M/s Shashi Cables, Lucknow
		7	M/s JSK (Formerly Hiren)Ind. Silvasa
		8	M/s Smita Conductor Khanvel
		9	M/s Prem Conductors, Silvasa

		10	M/s Lumino
		11	M/s Sterlite Technologies Ltd.
		12	M/s Mahavir Transmission Ltd., Dehradun
22	ACSR Zebra conductor	1	M/s Sterlite Technologies Ltd.
		2	M/s Gammon India Silvasa
		3	M/s Lumino Ind.Ltd Howrah
		4	M/s Smita Conductor Khanvel
		5	M/s Prem Conductors, Silvasa
		6	M/s Galaxy Transmission Ind. Sangali
		7	M/s Gupta Cable
		8	M/s North East conductor
		9	M/s Apar Industries
		10	M/s Unity Conductors
		11	M/s Omega
		12	M/s Pioneer
		13	M/s Venkateshwara wires Jaipur
		14	M/s Rajputana cables and conductor Korba
		15	M/s Mahavir Transmission Ltd., Dehradun

**Note:-**

- (A) The names of the vendors are subject to further verification of various documents viz. valid type test report, ISI license (wherever applicable), drawing and GTP etc. at the time of approval for individual project. The inclusion of names of various manufacturers in this list will not relieve the obligation of manufacturer / contractor for furnishing the aforesaid documents.
- (B) Any other items/component not covered in these lists - Reputed make subject to prior permission from CSPTCL duly furnishing all their credentials and documents sought by office of ED /CE (Planning & Projects).

## QUANTITY OF MAJOR EQUIPMENTS AND MATERIALS REQUIRED FOR SUBSTATION

### (A) Switchyard Equipments :-

S.No.	Particular	Qty	Unit
1	160 MVA, 220/132 KV, Transformer	2	No
2	220 KV SF <sub>6</sub> circuit breaker with structure complete and terminal connectors.		
(a)	Normal duty (gang operated type)	3	No
(b)	Single pole reclosing type	2	No
3	220 KV Current Transformer having ratio 600-1200/1-1-1-1-1 with clamps	15	No
4	220 KV PT having ratio 220KV/ $\sqrt{3}$ /110V/ $\sqrt{3}$ with clamps	3	No
i	220 KV CVT having ratio 220KV/ $\sqrt{3}$ /110V/ $\sqrt{3}$ with clamps	6	No.
5	Lightning Arrestor 198 KV with terminal connectors	12	No
7	220 KV Isolator (3-p) with earth switch and support insulators 1200 A	2	No.
8	220 KV Isolator (3-p) without earth switch and with support insulators 1200 A	13	No.
10	220 KV Solid core Post Insulators	32	No.
11	132 KV SF <sub>6</sub> circuit breaker with structures and terminal connectors complete.	4	No
12	132 KV Current Transformer with terminal connectors having ratio :800 - 400/1-1-1A with clamps	12	No
13	Lightning Arrestor 120 KV with terminal connectors	12	No
17	Isolator (3-p) with earth switch, 800 Amp with support insulators	2	No
18	Isolator (3-p) without earth switch, 800 Amp with support insulators for feeder bays	11	No
19	132 KV solid core post insulator for conductor support	38	No
20	33 KV Potential X'mer (suitable for 66 KV insulation class) with terminal clamps	6	No
21	33 KV Isolator (suitable for 66 KV insulation class) with terminal clamps	2	No.
22	39 KV LA	6	No.
23	415 V, AC Bay Marshalling Kiosk	5	No.
24	CT/PT Junction boxes	14	No.
25	Lighting High Mast	1	No.

**(B) CONTROL ROOM EQUIPMENTS:**

S.No.	Particular	Quantity	
1.	220 KV Control & Relay Panel for 160 MVA transformer	02	No.
2.	220 KV Control & Relay Panel for feeders	02	Nos.
3.	220 KV Control & Relay Panel for Bus Transfer	01	No.
4.	220 KV Bus Bar Panel	01	No.
5.	132 KV Bus Bar Panel	01	No.
6.	132 KV Control & Relay Panel for 160 MVA Xmer	02	No.
7.	132 KV Control & Relay Panel for 132 KV feeders	02	Nos.
8.	EPAX 24/12 lines with operator console	01	No.
9.	Electronic Push button Telephones Sets	10	Nos.
10.	110V, 600Ah, Battery Set (55 Cells)	01	Set
11.	48 V, 600Ah, Battery Set (24 Cells)	01	set
12.	110V, 600AH, Battery Charger with separate two float & one Boost charger (one float shall be in standby mode).	01	No.
13.	48V, 600AH, Battery Charger with separate two float & one Boost charger (one float shall be in standby mode).	01	No.
14.	ACDB with 24 compartments, MCB & HRC fuses, space for 2 <sup>nd</sup> incomer & 20% spare provision for out going circuits (duly wired)	02	No.
15.	DCDB 110 V DC with 24 compartments, HRC fuses, space for 2 <sup>nd</sup> incomer & 20% spare provision for out going circuits (duly wired)	02	No.
16.	DCDB 48 V DC with 12 compartments, HRC fuses, space for 2 <sup>nd</sup> incomer & 30% spare provision for out going circuits (duly wired)	01	No.
17.	SAS Complete	01	Set.
18.	GPS time synchronising clock with external large display	01	Set

**ANNEXURE –A-26**

<b><u>ILLUSTRATIVE EXAMPLE FOR CAPITALISTION OF LOSSES</u></b>							
<b>Particulars</b>	<b>Range Prescribed (KW)</b>	<b>Quoted by bidders</b>					
		<b>M/S A</b>	<b>M/S B</b>	<b>M/S C</b>	<b>M/S D</b>	<b>M/S E</b>	<b>M/S F</b>
<b>A. For 160 MVA Transformer</b>							
No Load loss (KW) offered	31.5-35	32.5	33.5	31	36	32	33
Load loss (KW) offered	184.5-205	185.5	184.5	191.5	185	206	186
Aux loss (KW) offered	4.5-5	4.4	4.7	4.6	4.6	4.6	5.1
Diff No Load loss		1	2	0	Bid non responsive due to excessive No load loss	Bid non responsive due to excessive load loss	Bid non responsive due to excessive auxiliary loss
Diff Load loss		1	0	7			
Diff Aux loss		0	0.2	0.1			
Capitalistion for no load loss (Diff lossx401840)		401840	803680	0			
Capitalistion for load loss (Diff lossx213780)		213780	0	1496460			
Capitalistion for auxiliary loss (Diff lossx160700)		0	32140	16070			

**ANNEXURE A-27****CHECK LIST**  
**(To be kept in Envelope-II)**

S. No.	Items	Reference	Declaration (Strike-out whichever is not applicable)	Page No.
1.	Duly & properly filled Questionnaire	Annexure-A-3	Yes/No	
2.	Self-attested copies of audited balance sheets and profit & loss account statement of sole bidder/each partner of JV for last 5 financial years(i.e., FY 2015-16 to FY 2019-20).	--	Yes/No	
3.	A Self-attested certificate issued by chartered accountant showing 'Annual Turnover' for the last five financial years (FY2015-16, 2016-17,2017-18 2018-19 & 2019-20)& 'Net worth' including assets and liability of the sole bidder/each partner of JV for the last three financial years (FY2017-18 018-19 & 2019-20)	--	Yes/No	
4.	ASelf-attestedcertificate in original of Chartered Accountantindicating details (break-up) of available 'Liquid assets' (LA) for sole bidder/each partner of JV. <b>Such certificate should have been issued not earlier than 3 months prior to the date of bid opening</b>	--	Yes/No	
5.	Evidence of access to or availability of credit/facilities	Annexure-A-7	Yes/No	
6.	Certificate issued by Chartered Accountant (To be furnished for Sole bidder/Lead Partner as well as other Partner of JV)	Annexure A-28	Yes/No	
7.	Declaration by the bidder (To be furnished for Sole bidder/Lead Partner as well as other Partner of JV(Separately).	Annexure A-29	Yes/No	
8.	(a) <b>for sole bidder/lead partner in case of JV:</b> Complete detailed order copy (self attested by authorised signatory of the tender), in support of technical experience criteria of PQR for having constructed & commissioned minimum 1 (one) No. 220 KV (or above voltage class) Sub-station on turnkey basis (with or without supply of power transformer) during last 5 years i.e. FY 2015-16 to FY 2019-20 (between 1 <sup>st</sup> Apl'2015 & 31 <sup>st</sup> March'2020) against order issued by Power Utilities owned and controlled by central or State Govt. or PSU's or Govt. organization - Complete order copy along with annexure containing bill of quantity/ scope of work etc shall be invariably submitted in support of technical experience criteria of PQR. <u>The date of order should not be older than 7 years from</u>	--	Yes/No	



	<p><u>the date of issue of NIT of the instant tender.</u></p> <p>(b) <b>for other partner in case of JV :</b> Complete detailed order copy (self attested by authorised signatory of the tender),in support of technical experience criteria of PQR for having <b>constructed &amp; commissioned minimum 1 No. Bay (either transformer or feeder bay)</b> of 132KV voltage level or higher class on turnkey basis during last 5 years i.e. FY 2015-16 to FY 2019-20 (between 1<sup>st</sup> Apl'2015 &amp; 31<sup>st</sup> March'2020) <i>against order issued by Power Utilities owned and controlled by central or State Govt. or PSU's or Govt. organization - Complete order copy along with annexure containing bill of quantity/ scope of work etc shall be invariably submitted in support of technical experience criteria of PQR. <u>The date of order should not be older than 7 years from the date of issue of NIT of the instant tender.</u></i></p>			
9.	<p><b>The sole bidder/ both partners of JV shall submit:</b> Self attested copy (by authorised signatory of the tender) of performance certificate of corresponding work order (for which orders have been furnished) for successful commissioning &amp; satisfactory operation of the above 1 (one) No. sub-station/ bay (as applicable) for a period of at least one year (from the date of commissioning) as on the date of issue of NIT of instant tender, indicating date of commencement of work and date of commissioning of the sub-station/ bay, duly issued by the concerned Power Utilities owned and controlled by Central or state Govt. or PSUs or Govt. organizations in the name of participating bidder.</p>	--	Yes/No	
10.	<p>Copy of Valid 'A' class Electrical Contractor License issued by CG anugyapanMandal/ CG state licensing board in the name of sole bidder / <b>lead partner</b> of the joint venture/ consortium <u>or</u> an undertaking to submit 'A' class electrical contractor license issued by C.G. AnugyapanMandal / CG State licensing Board within 30 days after issue of LOA, by the sole bidder or lead partner of the JV/consortium.</p>	--	Yes/No	
11.	<p>Copy of EPF code number/ EPF registration No. allotted by EPF Commissioner in the name of the sole bidder / <b>Lead partner</b> of the JV</p>	--	Yes/No	
12.	<p>Pre-contract Integrity pact in prescribed format</p>	Annexure A-22	Yes/No	
13.	<p>Deviation from technical specification/ conditions</p>	Annexure A-9	Yes/No	

14.	Deviation from the commercial condition of contract	Annexure A-10	Yes/No	
15.	Undertaking by the Joint Venture Partners	Annexure A-20	Yes/No	
16.	Power of Attorney for Joint Venture	Annexure A-21	Yes/No	
17.	Undertaking for Personnel Capabilities <i>(To be furnished for Sole bidder/Lead Partner as well as other Partner of JV)(Separately)</i>	Annexure A-4	Yes/No	
18.	Undertaking for Equipment Capabilities <i>(To be furnished for Sole bidder/Lead Partner as well as other Partner of JV)(Separately)</i>	Annexure A-5	Yes/No	
19.	Power of attorney issued to legally authorised signatory	--	Yes/No	
20.	Litigation History of the Bidder <i>(To be furnished for Sole bidder/Lead Partner as well as other Partner of JV)(Separately)</i>	Annexure A-12	Yes/No	

**Note: please bnote that any of the required document is not submitted along with the bid, the bid will be rejected without any further correspondace in the matter.**

Date

Place

SIGNATURE OF BIDDER

NAME

DESIGNATION

(SEAL)

**ANNEXURE – A-28****CERTIFICATE ISSUED BY CHARTERED ACCOUNTANT**

*(To be furnished for Sole bidder/Lead Partner as well as other Partner of JV in original)*

*(Please ensure the language of the format is maintained to avoid bid rejection)*

Name of the bidder (Sole bidder/JV partners) :

- a) All payment obligations (principal / Interest) on outstanding debentures (i.e. debentures which have not yet been redeemed) have been discharged and no such payment as on **30.09.2020** is outstanding / overdue.
- b) The bidding company is presently not in default in payment of any bank loan or interest thereon for more than three months or any loan account of the bidder has not been classified as NPA (Non performing assets) by the creditor/ lending bank as on date of issue of NIT.
- c) The bidding company is not going through the process of insolvency or liquidation as on the date of issue of NIT. Even, if at a later date up to placement of order against the instant tender, it comes to the notice of CSPTCL that the sole bidder/ any partner of JV has been going through the process of insolvency or liquidation, their bid will be rejected.

Date

SIGNATURE OF CHARTERED  
ACCOUNTANT

Place

NAME  
(SEAL)

**ANNEXURE – A-29**

**DECLARATION BY THE BIDDER**

*(To be furnished by Sole bidder/Lead Partner as well as other Partner of JV Separately)*

*(Please ensure the language of the formate is maintained to avoid bid rejection)*

Name of the bidder (Sole bidder/JV partners) :

- 1) (Name of the bidder) M/s .....is not debarred/ blacklisted by Bank/State Govt/Central Govt/State PSU/CPSU/SEB/ public utility as on date of issue of NIT.
- 2) All the documents/ statements/ attachments/ information submitted by (Name of the bidder) M/s..... in proof of the qualifying requirements are authentic / genuine /correct and in case, any of the said documents / statements / attachments / information is found to be false / fake / misleading, the bid will be disqualified and action will be taken as per relevant provisions of the tender.

Date

SIGNATURE OF BIDDER

Place

NAME

DESIGNATION

(SEAL)

# **SECTION-IV**

## ***(PRICE BIDS ANNEXURES)***

**ANNEXURE - B**  
**ABSTRACT OF PRICE BID ANNEXURES**  
**Construction of 220 KV S/s Patan at existing 132/33 KV sub-station Patan**

(E-Bidding purpose format)

Sl. No.	PARTICULARS	Annexure Particulars	Offered amount inclusive of all taxes & other charges	Discount offered in percent	Offered amount inclusive of all taxes & other charges with offered discount
(A)	<b>Supply Items</b>				
1	220 KV Side Equipments	B -1			
2	132 KV Side Equipments	B -2			
3	33 KV Side Equipments	B -3			
4	Conductor, Clamps & Connectors, disc insulator and hardware	B -4			
5	Cables & Battery & Battery Charger	B -5			
6	Luminaire & Misc. Equipments	B -6			
7	Supply of G. I. Steel Structure	B -7			
8	T & Ps, Instruments	B -8			
9	Furniture	B -9			
10	Substation Automation system etc	B-10			
(A)	<b>Sub Total of Annexures B-1 to B-10</b>				
(B)	<b>Civil Works</b>	C-1			
(C)	Erection, Testing & Commissioning works				
i	Erection Charges	D-1			
ii	Testing & Commissioning Charges	D-2			
(D)	<b>Sub Total of Annexures (D-1)+(D-2)</b>				
(E)	<b>Total offered amount (A+B+D)</b>				

Rupees in words \_\_\_\_\_

Date

SIGNATURE OF  
BIDDER

Place

NAME  
DESIGNATION  
(SEAL)

**Price Annexure - 220 KV S/S Patan**  
**ANNEXURE - (B-1) 220 KV SIDE EQUIPMENTS:**

Sl. No.	Particular	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (5+6)	GST @ 18% on Sl.No.7	Total Unit Rate (FORD) = 7+8	Total Amount = Sl. No.4 x Sl.No.9
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>
1	160 MVA, 220/132 KV, Xmer with Oil & Accessories and terminal connectors, online DGA system, NIFPS and accssories (the prices should be inclusive of type and special test charges)	No.	2						
2	220 KV SF <sub>6</sub> circuit breaker with structure complete and terminal connectors								
2.1	Normal duty (gang operated type)	No.	3						
2.2	Single pole reclosing type	No.	2						
3	220 KV CVT having ratio 220KV/√3/110V/√3 with clamps	No.	6						
4	Lightning Arrestor 198 KV with terminal connectors	No.	12						
5	Communication Equipment								
(i)	EPAX (Exchange for 24 lines)	No.	1						
(ii)	Electronic Push Button telephone with Priority Key.	No.	10						
6	220 KV Isolator (3-p) with earth switch and support insulators 1200 A including terminal connector	No.	2						
7	220 KV Isolator (3-p) without earth switch and with support insulators 1200A incl. terminal connector	No.	13						
8	220 KV Control and relay panel for 220 KV feeders with main I & Main II protections i.e. numerical DPR (of different makes), with inbuilt feature of O/C and earth fault relays as decribed in Tech. Spec. for indoor control panel.	No.	2						

Sl. No.	Particular	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (5+6)	GST @ 18% on Sl.No.7	Total Unit Rate (FORD) = 7+8	Total Amount = Sl. No.4 x Sl.No.9
1	2	3	4	5	6	7	8	9	10
9	220 KV Control & relay panel for 220 KV, 160 MVA Transformer with 2 no. numerical high speed differential relays (Different makes) with inbuilt feature of. 4 element directional numerical O/C relays, REF protection, 1 no. over fluxing relays, LBB protection and NDR protection for tertiary winding as decribed in Tech. Spec. for indoor control pannel.	No.	2						
10	220 KV Control & Relay panel for 220 KV Transfer breaker with 1 No. numerical DPR, 4 element numerical directional O/C and LBB, as decribed in Tech. Spec. for indoor control panel .	No.	1						
11	220 KV Bus bar protection pannel with high speed low impedance bus differential relay one each for main & check zone as decribed in Tech. Spec. for indoor control pannel.	No.	1						
12	Solid core Post Insulators on 220 KV side for conductor support.	No.	32						
13	GPS based time synchronising clock with large display.	No.	1						
<b>TOTAL ANNEXURE – ( B- 1 )</b>									

Note :-

1. Please indicate ex-works price, Package freight & insurance and GST in respective columns.
2. Cess under B&OCWA: - Applicable cess @ 1% (except the cost of power transformer) shall be deducted from each bill.
3. Over Current relays shall be provided with trip value recorder and date & time stamping.
4. The make, model and technical specifications of spare relays should be exactly same as approved for the similar relay for C&R panel.
5. ***Bidders are requested to go through the tender specification before quoting the rate***

**Signature of the Bidder**



**Price Annexure - 220 KV S/S Patan**  
**ANNEXURE - (B-2) 132 KV SIDE EQUIPMENTS:**

Sl. No.	Particular	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (5+6)	GST @ 18% on SL.No.7	Total Unit Rate (FORD) = 7+8	Total Amount = Sl. No.4 x SL.No.9
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>
1	SF <sub>6</sub> circuit breaker with structures and terminal connectors complete.	No.	4						
2	Lightning Arrestor 120 KV with terminal connectors	No.	12						
3	Isolator (3-p) with earth switch, 800 Amp with support insulators	No.	2						
4	Isolator (3-p) without earth switch, 800 Amp with support insulators for feeder bays & PT	No.	11						
5	132 KV control & relay panel for 160 MVA Xmer, complete with, 4xO/C backup, numerical relay, master trip relays, Over load relay, stuck breaker protection, indicating lamps, Semaphores, annuciations, switches & pannel meters digital type (MW, MVAR, A, V, frequency & 3 ph 4 Import/ Export Electronic TriVector SEMS make energy Meters & as decribed Tech. spec. for indoor control pannel	No.	2						
6	132 KV control & relay panel for feeders (3 ph) complete with main distance relays (having 5 zones switched with all features i.e. fuse failure relay & SOTF etc.) 4 element back up numerical relays (directional relay), Master Trip Relays, stuck breaker protection, indicating lamps, Semaphores, annuciations, switches & pannel meters distaltype (MW,	No.	2						

Sl. No.	Particular	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (5+6)	GST @ 18% on Sl.No.7	Total Unit Rate (FORD) = 7+8	Total Amount = Sl. No.4 x Sl.No.9
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>
	MVAR, A, V, frequency & 3 ph 4 Import/Export Electronic TriVector capital SEMS make energy Meters & as decribed Tech. spec. for indoor control panel.								
7	132 KV Bus bar protection pannel with high speed low impedece bus differential relay one each for main & check zone as decribed in Tech. Spec. for indoor control pannel .	No.	1						
8	Solid core Post insulators for conductor support	No.	39						
<b>TOTAL ANNEXURE – ( B- 2 )</b>									

Note :-

1. Please indicate ex-works price, Package freight & insurance and GST in respective columns.
2. Cess under B&OCWA: - Applicable cess @ 1% shall be deducted from each bill.
3. Over Current relays shall be provided with trip value recorder and date & time stamping.
4. The make, model and technical specifications of spare relays should be exactly same as approved for the similar relay for C&R panel.
5. ***Bidders are requested to go through the tender specification before quoting the rate***

**Signature of the Bidder**

**Price Annexure - 220 KV S/S Patan**  
**ANNEXURE - (B-3) 33 KV EQUIPMENTS**

Sl. No.	Particular	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (5+6)	GST @ 18% on Sl.No.7	Total Unit Rate (FORD) = 7+8	Total Amount = Sl. No.4 x Sl.No.9
1	2	3	4	5	6	7	8	9	10
1	33 KV Potential X'mer (suitable for 66 KV insulation class) with terminal clamps for tertiary of 160MVA X-mer	No.	6						
2	33 KV Isolator (suitable for 66 KV insulation class insulator) with terminal clamps for tertiary of 160MVA X-mer	No.	2						
3	33KV Isolator with insulators without earth Switch 800 Amp. with terminal clamps	No.	1						
4	39 KV LA	No.	6						
5	33 KV LA	No.	3						
6	33 /0.415 KV, 500 KVA Station X'mer (with Oil & Accessories) & clamps complete with distribution box etc.	No.	1						
7	33 KV D.O. Fuse Set with terminal clamps complete	set	1						
8	Solid core Post insulators for conductor support for x-mer neutral.	No.	20						
<b>TOTAL ANNEXURE – ( B- 3 )</b>									

Note :-

1. Please indicate ex-works price, Package freight & insurance and GST in respective columns.
2. Cess under B&OCWA: - Applicable cess @ 1% shall be deducted from each bill.
3. Over Current relays shall be provided with trip value recorder and date & time stamping.
4. The make, model and technical specifications of spare relays should be exactly same as approved for the similar relay for C&R panel.
5. ***Bidders are requested to go through the tender specification before quoting the rate***

**Signature of the Bidder**

**Price Annexure - 220 KV S/S Patan**  
**ANNEXURE - B 4 : CONDUCTOR, CLAMPS CONNECTORS, DISC INSULATOR AND HARDWARE**

Sl. No.	Particular	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (5+6)	GST @ 18% on Sl.No.7	Total Unit Rate (FORD) = 7+8	Total Amount = Sl. No.4 x Sl.No.9
1	2	3	4	5	6	7	8	9	10
1	Zebra ACSR Conductor	KM	5.2						
2	Galvanised Steel Ground Wire 7/3.66 m.m.	KM	1.5						
3	G.I. Flats for earthing (65x8MM) for 220 KV & 132 KV yard( Earth mat + below riser)	MT	40						
4	GI Flats for above riser 50x6MM	MT	8						
5	Cable trays GI perforated/Ladder type (In running meter as per your design )								
5.1	300 mm wide	RM	800						
5.2	450 mm wide	RM	1150						
5.3	600 mm wide	RM	1000						
6	Steel support for cable trays size 50x50x6mm	MT	9						
7	Material for complete earth pit with 100 mm Outer Dia. x 3 m long (class B) G.I. pipe including nut bolts etc for transformer neutrals, PTs & LAs etc.								
7.1	For transformer earthing ( 4 pipe )	Nos.	4						
7.2	For other equipments (2 pipe )	Nos.	25						
8	G.I. Earth Spikes-25 mm Dia./ 2500 mm length	Nos.	200						
9	G.I. Nuts & Bolts of assorted sizes	MT	7.5						
10	Various types of clamps, spacers etc.								
10.1	‘T’ clamps for Panther run to Zebra tap	Nos.	12						
10.2	‘T’ Clamp Double Zebra to Single Zebra	Nos.	36						

Sl. No.	Particular	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (5+6)	GST @ 18% on Sl.No.7	Total Unit Rate (FORD) = 7+8	Total Amount = Sl. No.4 x Sl.No.9
1	2	3	4	5	6	7	8	9	10
10.3	'T' Clamp single Zebra to single Zebra	Nos.	126						
10.4	PI Clamp for holding Single Zebra Conductor	Nos.	53						
10.5	PI Clamp for holding Double Zebra Conductor	Nos.	41						
10.6	Pad Clamp for Zebra Conductor for twin Zebra	Nos.	4						
10.7	Earth wire bond	Nos.	48						
10.8	Spacers for Twin Zebra ( spacing 250mm)	Nos.	268						
10.9	PG clamp for Zebra to Zebra	Nos.	54						
10.10	PG clamp for Panther to Zebra	Nos.	6						
11	<b>Disc Insulators:</b>								
11.1	Tension Disc Insulator 160KN (Anti fog type )	Nos.	1980						
11.2	Tension Disc Insulator 90 KN (Anti fog type )	Nos.	1260						
11.3	Suspension Disc Insulator 70 KN (Anti fog type)	Nos.	470						
12	<b>Hardware assembly for 220 KV system</b>								
12.1	Double tension H/w assembly for twin ACSR Zebra bolted Type.(with/ without TB)	Nos.	24						
12.2	Double tension H/w assembly for single ACSR Zebra bolted Type (with/without TB)	Nos.	36						
12.3	Single tension H/w for Single ACSR Zebra bolted Type. .(with/without TB)	Nos.	12						
12.4	Single Suspension H/w for Single ACSR Zebra drop type clamp	Nos.	12						
12.5	Single Suspension H/w for Single ACSR Zebra through type clamp	Nos.	6						
13	<b>Hardware assembly for 132 KV system</b>								

Sl. No.	Particular	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (5+6)	GST @ 18% on Sl.No.7	Total Unit Rate (FORD) = 7+8	Total Amount = Sl. No.4 x Sl.No.9
1	2	3	4	5	6	7	8	9	10
13.1	Double tension H/w assembly for twin ACSR Zebra bolted Type. (with/without TB)	Nos.	30						
13.2	Double tension H/w assembly for single ACSR Zebra bolted Type. (with/without TB)	Nos.	12						
13.3	Single tension H/w for Single ACSR Zebra bolted Type. (with/without TB)	Nos.	42						
13.4	Single Suspension H/w for Single ACSR Zebra drop type clamp	Nos.	18						
13.5	Single Suspension H/w for Single ACSR Zebra through type clamp	Nos.	6						
14	<b>Tension Hardware for Earth Wire</b>	Nos.	60						
15	PG clamp for E/W	Nos.	15						
16	Pad clamp for E/W	Nos.	15						
17	Cleat type clamp E/W	Nos.	60						
18	Any other hardware, clamps, spacers, etc (which is not specified above but required as per site conditions & direction of officer incharge of CSPTCL)	Nos.	10						
<b>TOTAL OF ANNEXURE - ( B - 4 )</b>									

Note :-

1. Please indicate ex-works price, Package freight & insurance and GST in respective columns.
2. Cess under B&OCWA: - Applicable cess @ 1% shall be deducted from each bill.
3. Over Current relays shall be provided with trip value recorder and date & time stamping.
4. The make, model and technical specifications of spare relays should be exactly same as approved for the similar relay for C&R panel.
5. **Bidders are requested to go through the tender specification before quoting the rate**

**Signature of the Bidder**

**Price Annexure - 220 KV S/S Patan****ANNEXURE - B-5 : CABLES, BATTERY SET AND BATTERY CHARGER**

Sl. No.	Particular	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (5+6)	GST @ 18% on Sl.No.7	Total Unit Rate (FORD) = 7+8	Total Amount = Sl. No.4 x Sl.No.9
1	2	3	4	5	6	7	8	9	10
1	Un-Armoured stranded copper cable with numbered core								
1.1	4 C, 4 sq. mm	Km	8						
1.2	4 C, 2.5 sq. mm	Km	4						
1.3	2 C, 2.5sq. mm	Km	4						
1.4	8 C, 2.5 sq. mm	Km	4						
1.5	12 C, 2.5 sq. mm	Km	6						
1.6	19 C, 2.5sq. mm	Km	8						
2	Power Cables Copper/ Aluminium (Armoured)								
2.1	3.5 core 240 sq mm aluminium	KM	2						
2.2	3.5 core 120 sq mm aluminium	KM	1						
2.3	4 core 10 sq mm copper	KM	3						
3	P L C C- Cables:-								
	20 pair jellified armoured telephone cables	KM	0.1						
4	Tubular Battery 110 V, 600 A H	set	1						
5	Tubular Battery: 48 V, 600 A H	set	1						
6	Battery Charger: 110 V, 600 A H	set	1						
7	Battery Charger: 48 V, 600 A H	set	1						
<b>TOTAL OF ANNEXURE – B:5</b>									

Note:-

1. Please indicate ex-works price, Package freight & insurance and GST in respective columns.
2. Cess under B&OCWA: - Applicable cess @ 1% shall be deducted from each bill.
3. Bidders are requested to go through the tender specification before quoting the rates.

**Signature of the Bidder**

**Price Annexure - 220 KV S/S Patan****ANNEXURE- B-6: LUMINAIRE (BAJAJ/ G.E./ PHILIPS MAKE) & MISCELLANEOUS EQUIPMENTS**

Sl. No.	Particular	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (5+6)	GST @ 18% on Sl.No.7	Total Unit Rate (FORD) = 7+8	Total Amount = Sl. No.4 x Sl.No.9
1	2	3	4	5	6	7	8	9	10
1	LED Flood Light Luminaries,2x100W complete set with fixtures	Set	6						
2	LED general area lighting (1x30W) complete set	Set	6						
3	Indoor, Decorative LED Luminaries 2x36 Watts, complete set	Set	20						
4	Indoor, LED Industrial Luminaries, 2x36 Watts, complete set	Set	10						
5	Indoor, Decorative LED Luminaries 1x16 Watts, complete set	Set	10						
6	56" size 230 V AC Ceiling fans for Control Room	No.	6						
7	18" Exhaust fans 230 V-AC, Single phase for control room, battery Room , Store room	No	3						
8	Cooler (1400rpm) with exust fan) for contorl room (02 No.), AE Room (01 No.) Fan 18" (900rpm)-	No	1						
9	Lighting High mast for yard illumination of 25 meter height as per design requirement with all cables and fitting.	No	1						
10	Miscellaneous Equipments.								
10.1	A C distribution Board, 415V with 24 compartment HRC fuses, with metal clad switches space for 2 incomer & 20% spare provision for out going CKTs (duly wired)	Nos.	2						
10.2	DC distribution Board, 110V with 24 compartment HRC fuses, metal clad switches space for 2incomer & 20% spare provision for out going CKTs (duly wired)	No.	2						



Sl. No.	Particular	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (5+6)	GST @ 18% on Sl.No.7	Total Unit Rate (FORD) = 7+8	Total Amount = Sl. No.4 x Sl.No.9
1	2	3	4	5	6	7	8	9	10
10.3	DC Board, 48V with 24 compartment HRC fuses, space for 2 incomer & 30% spare provision for out going CKTs (duly wired)	No.	1						
10.4	415V Bay Marshalling Kiosk	Nos.	5						
10.5	CT Junction Box with 36 Nos. connectors, disconnecting type. With 20 % extra connector	Nos.	8						
10.6	PT Junction Box with 24 Nos. connectors, disconnecting type. With 20 % extra connector	Nos.	6						
10.7	Main Switches for Extension of AC Supply (100 Amp weather proof outdoor 3 phase 4 pole supply for								
	(a) For X-mer Filtration	No	1						
	(b) For Weilding Machine	No	1						
	(c) LDB (out door lighting) with 4 pole MCB and suitable no. out going MCBs	Nos	2						
10.8	Rechargable Emergency light	No	1						
10.9	Marshalling box/ Junction Boxes other purposes.	No	8						
10.10	First Aid Box with Chart	No	1						
10.11	Illuminated Single Line Diagramme Board	No	1						
10.12	Tubular pole (with str complete) assembled with 1 meter arm with lighting fixture of 50W LED	Nos.	10						
<b>TOTAL OF ANNEXURE – ( B –6)</b>									

## Note:-

1. Please indicate ex-works price, Package freight & insurance and GST in respective columns.
2. Cess under B&OCWA: - Applicable cess @ 1% shall be deducted from each bill.
3. The quantity of luminaires for control room building and switchyard lightning of substation shall meet the recommended lux level as per CBIP manual 3.5.1 and IS standarad.
4. Bidders are requested to go through the tender specification before quoting the rates.

Signature of the Bidder

**Price Annexure - 220 KV S/S Patan**  
**ANNEXURE - B -7 : G. I. STEEL STRUCTURE**

Sl. No.	Particular	Wt. per unit in MT	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (6+7)	GST @ 18% on Sl.No.8	Total Unit Rate (FORD) = 8+9	Total Amount = Sl. No. 5 x Sl.No.10
1	2	3	4	5	6	7	8	9	10	11
	<b>G.I. STRUCTURE ALONG WITH FOUNDATION BOLTS</b>									
1	220 KV AGT Gantry Column	3.657	No.	17						
2	220 KV Gantry Beam	1.222	No.	10						
3	220 KV LA	0.122	No.	15						
4	220 KV CT	0.266	No.	18						
5	220 KV CVT	0.266	No.	9						
6	220 KV PT	0.266	No.	3						
7	220 KV PI	0.283	No.	16						
8	220 KV Isolators	2.122	No.	18						
9	220 KV Bus Bar Main	2.467	No.	5						
10	220 KV Bus Bar Transfer	2.412	No.	5						
11	132 KV Gantry Column	1.257	No.	11						
12	132 KV Gantry Beam	0.570	No.	8						
13	132 KV LA	0.173	No.	15						
14	132 KV C T	0.142	No.	15						
15	132 KV P T	0.128	No.	3						
16	132 KV PI	0.175	No.	17						
17	132 KV Isolators	0.556	No.	16						
18	132 KV Bus Bar Main	1.60	No.	5						
19	132 KV Bus Bar Transfer	1.60	No.	5						
20	33 KV PT insulation Class 66 KV	0.233	No.	2						

Sl. No.	Particular	Wt. per unit in MT	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (6+7)	GST @ 18% on Sl.No.8	Total Unit Rate (FORD) = 8+9	Total Amount = Sl. No. 5 x Sl.No.10
21	39 KV LA	0.262	No.	2						
22	33 KV Isolator	0.376	No.	3						
23	Structure for D.O. set	0.40	No.	1						
	<b>TOTAL OF ANNEXURE – ( B –7)</b>									

**NOTE:-**

1. Please indicate ex-works price, Package freight & insurance and GST in respective columns.
2. Cess under B&OCWA :- Applicable cess @ 1% shall be deducted from each bill.
3. Bidders are requested to go through the tender specification before quoting the rates.
4. Quantities shown above includes structure for future 220KV feeder bay & 132 KV feeder bay each.

**Signature of the Bidder**

**Price Annexure - 220 KV S/S Patan  
ANNEXURE - (B-8) T&P AND OTHER EQUIPMENTS**

Sl. No.	Particular	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (5+6)	GST @ 18% on Sl.No.7	Total Unit Rate (FORD) = 7+8	Total Amount = Sl. No.4 x Sl.No.9
1	2	3	4	5	6	7	8	9	10
1	fire fighting Equipments: -								
i)	Fire Bucket	No.	12						
ii)	Bucket Stands	No.	2						
iii)	a) Carbon-di-oxide (CO <sub>2</sub> ) type fire extinguisher- capacity- 22.5 Kg, average discharge time- 20-60 sec., filled weight – 66-69 Kg, empty weight-43.5 – 46.5 Kg, test pressure-250 Kg/cm <sup>2</sup> trolley mounted complete with 05 mtr discharge hose & nozzle,confirming to IS:2878:2004. Make Bharat/New Bharat / Kanadia/Ceasefire	No.	4						
	b) Dry chemical powder (DCP) type fire extinguisher trolley mounted, capacity- 50 Kg with 2Kg CO <sub>2</sub> capsule, average discharge time 40-60 sec., filled weight - 107-110 Kg, empty weight – 57 – 60 kg, test pressure-30 Kg/cm <sup>2</sup> with hose pipe and nozzle, confirming to IS:10658:1999. Make Bharat/New Bharat / Kanadia/ Ceasefire	No.	2						
	c) Mechanical foam type trolley mounted fire extinguisher capacity-50 Ltr confirming to IS:13386:1992. Make Bharat/New Bharat / Kanadia/ Ceasefire	No.	2						
2	Neoprene Rubber sheet size 03 mm , 5'x3' make Gujrat Cork& Rubber Pvt. Ltd.	No.	12						
3	220 KV Discharge rods with leads make BEIMCO make or as aproved by CSPTCL	No.	6						
4	Operating rod	No.	2						
5	DE-Spanner Set of 25 Tapariya	set	1						
6	Ring spanner Set of 25 Make Tapariya	set	1						
7	Tabular spanner Set of 25 Make Tapariya	set	1						
8	Aluminium Ladder: Extensible self supported( 20 ft long	No.	1						

Sl. No.	Particular	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (5+6)	GST @ 18% on Sl.No.7	Total Unit Rate (FORD) = 7+8	Total Amount = Sl. No.4 x Sl.No.9
1	2	3	4	5	6	7	8	9	10
	after extension)								
9	aluminium pedestal type Ladder: Extensible 20 ft long	No.	1						
10	Torches (5-cell) make Everready	No.	2						
11	Motorised automatic oil testing kit-0-100KV make Megger model OTS-100 AF/ Baur model DTA 100C	No.	1						
12	Digital capacitance meter make Motwani/Kusam Meco	No.	1						
13	Multimeter (A-V-O) for AC/DC Mesurement Make Motwani DM 4750 cat4 /Rishabh multi 20/fluke model - 1507	No.	2						
14	Digital tong tester -0-1000A make Motwani DM 30A/Rishabh rish clamp 1000A	No.	2						
15	Digital milli ampere meter(Tong tester) AC 0-100 mA make motwani DCM 10A/ Kyritsu	No.	1						
16	Digital Insulation Tester , 1KV make Motwani/ Rishabh rish insu 20 /Megger	No.	1						
17	Digital Insulation Tester , 5KV (in steps of 1KV,2KV5KV, range-0-100000Mega Ohmsmake Megger/AVO/as aproved by CSPTCL	No.	1						
18	Digital earth tester (4 terminals) complete make- Motwami model DET-20/Rishabh MI 2124	No.	1						
19	Micro processor based BDV of oil testing kit (Automatic 0-100KV) Deltatronic Model: Portatest/ Baur make DTA100 C/Megger make OTS 100	No.	1						
20	Oil Filter Plant Complete (6000 LPH) with required accessories	No.	1						
21	Oil storage tank (MS) capacity 10 KL	No.	1						
22	Air Conditioners 2 tonne capacity (Split type)	No.	12						
23	Fire detection & alarm system based on smoke detectors along with accessories complete as per technical	Set	1						

Sl. No.	Particular	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (5+6)	GST @ 18% on Sl.No.7	Total Unit Rate (FORD) = 7+8	Total Amount = Sl. No.4 x Sl.No.9
1	2	3	4	5	6	7	8	9	10
	specifications								
(i)	Smoke detector	No.	20						
24	Vice-8"	No	2						
25	Drill Machine -satnd model up to 1" Drill bits make Bosch/wolf	No	1						
26	Bench grinder (1/2 H.P.) make Bosch /wolf	No	1						
27	Chain Pulley block 5 tones capacity	No	1						
28	Vacuum cleaner (500 W) Philips/GE/Eureca Forbes	No	1						
<b>TOTAL OF ANNEXURE - ( B -8 )</b>									

**NOTE :-**

1. Please indicate ex-works price, Package freight & insurance and GST in respective columns.
2. Cess under B&OCWA: - Applicable cess @ 1% shall be deducted from each bill.
3. All the T &P should be as per latest amended I.S.S.
4. Wherever make is not specified, the approval of same from CSPTCL will be required.

**Signature of the bidder**

**Price Annexure - 220 KV S/S Patan**  
**ANNEXURE - (B-9) FURNITURE**

Sl. No.	Particular	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (5+6)	GST @ 18% on Sl.No.7	Total Unit Rate (FORD) = 7+8	Total Amount = Sl. No.4 x Sl.No.9
1	2	3	4	5	6	7	8	9	10
1	Officer's Table 66" x 33" size	No.	1						
2	Table for Control Room Operator 4 ½' x 2 ½'	No.	4						
3	Computer table - size 1200 (W) x 600 (D) x 750 (H) mm for automatic data logging system	No.	1						
4	Chairs - Half Arm Rest Type	No.	10						
5	Stools	No.	2						
6	Steel Almirah (Big -78" with locker)	No.	1						
7	Steel Almirah (Big -78" without locker)	No.	1						
<b>TOTAL OF ANNEXURE - ( B - 9 )</b>									

**Note :** *Please note that all furniture shall be of "Godrej make" only.*

1. Please indicate ex-works price, Package freight & insurance and GST in respective columns.
2. Cess under B&OCWA: - Applicable cess @ 1% shall be deducted from each bill.

**Signature of the Bidder**

**Price Annexure - 220 KV S/S Patan**  
**ANNEXURE (B-10) PRICE BID FOR SUBSTATION AUTOMATION SYSTEM**

Sl. No.	Particular	Unit	Qty	Unit rate (Ex-works Price)	Package, Freight & insurance	Total unit rate (5+6)	GST @ 18% on Sl.No.7	Total Unit Rate (FORD) = 7+8	Total Amount = Sl. No.4 x Sl.No.9
1	2	3	4	5	6	7	8	9	10
1.	PC, printer and furniture alongwith software for Automatic data logging of various APEX Energy meters; meter readings like voltage, current, frequency, MVAR &MWH of feeders and transformer (other than SAS) & load survey data	set	1						
2	Complete substation automation system based on IEC61850 protocol for 220KV S/s (including hardware & software with licences for local control station, remote control station & communication with SLDC) alongwith associated equipments, OFC/ any other cable required to connect the SAS/ PC with BCU, relays, energy meter alongwith conduit for routing of such cables, Table for installing SAS system, Cabinet for housing SAS Servers as per tender specification for following bays :	set	1						
(i)	5 Nos. 220 KV bays (X' mer bay, feeder bays, Bus Coupler bay)								
(ii)	04 Nos.132 KV bays (X' mer bay, feeder bays, Bus Transfer bay)								
3	Visual Monitoring System								
	a) Visual camera	No.	8						
	b) Server/PC with 29' LED monitor	Set	1						
<b>TOTAL OF ANNEXURE - ( B -10 )</b>									

Note - **Bidders are requested to go through the tender specification before quoting the rates.**

**Signature of the Bidder**



**Price Annexure - 220 KV S/S Patan****ANNEXURE - (C-1) CIVIL WORKS****(Rates of individual items shall be quoted; rate in lot shall not be acceptable)**

<b>Sl. No.</b>	<b>PARTICULARS</b>	<b>Unit</b>	<b>Qty</b>	<b>Unit rate</b>	<b>GST@ 18% on unit rate</b>	<b>Total Unit Rate = 5+6</b>	<b>Total Amount = Sl. No.4 x Sl.No.7</b>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>
1)	Foundation of Structures & equipments with required foundation bolts as per design.						
a	160 MVA X'mer 220/132 KV with all its accessories	No.	3				
b	220 KV Gantry Column	No.	17				
c	220 KV Main Bus bar	No.	5				
d	220 KV Transfer Bus bar	No.	5				
e	220 KV Isolator	No.	18				
f	220 KV CT	No.	18				
g	220 KV LA	No.	15				
h	220 KV CVT	No.	9				
i	220 KV PI	No.	16				
j	220 KV PT	No.	3				
k (i)	220 KV SF6 breaker (Gang operated)	No.	3				
(ii)	220 KV SF6 breaker (SPR)	No.	2				
l	132 KV Gantry column	No	11				
m	132 KV Main Bus Bar	No.	5				
n	132 KV Transfer Bus Bar	No.	5				
o	132 KV SF <sub>6</sub> Breaker	No.	4				
p	132 KV Isolator	No.	16				
q	132 KV CT	No.	15				
r	132 KV PT	No.	03				

S	132 KV LA	No.	15				
t	132 KV PI	No.	17				
u	Equipment for tertiary winding of 160 MVA auto Xmer :-	No.					
(i)	33 KV Potential X'mer (suitable for 72.5 KV insulation class) ( For T-type stru.)	No.	2				
(ii)	33 KV Isolator (suitable for 72.5 KV insulation class) ( For T-type stru.)	No.	3				
(iii)	39 KV LA( For T-type stru.)	No.	2				
v	500KVA 33/0.415KV station X-mer	No.	1				
w	D.O. set structure	No.	1				
2	Air conditioned Bay Marshalling room (with RCC roof) as per approved drawing & specification Area- 30 SqM approx.	No.	4				
3	Extension of existing 132 KV control room building to accommodate 220 KV Control room (RCC framed structure) with associated facilities including internal & external electrification with concealed fire resistant copper wiring ceiling fan points, smoke detector points,exhaust fan point, tube light points, indoor decorative luminary points and fitting thereof, main switch and LDB with MCBs, telephone points, LAN points, internal and external water supply and sanitation including man holes etc. Mineral fibre false ceiling in Control Room Hall. Pre-construction anti termite treatment, internal cable trenches, covered with 6mm thick MS chequered plate, specified floor & wall finishes. Aluminium/PVC/wooden doors, window with reflective glasses, grills etc complete as per specifications, approved drawings, approval and direction of Engineer incharge of CSPTCL. (Rates shall be for plinth area)	SQM	125				
4	<b>External Cable Trenches</b>						
(I)	<b><u>Y-1 Type.</u></b>						
	Width x Depth=200 mm.x 500mm Direct buried cable trench as per tender specification and provided drawings, direction and approval of Engineer-In-Charge of CSPTCL constructed in following manner:-	RM	175				

	<p>Layer I : 100 mm brick.  Layer II : 200 mm sand.  Layer III : 100 mm brick.  Layer IV : 100 mm. soil.  The cable shall be kept at the centre of sand layer and top of the soil layer shall be FGL. No cable tray shall be provided in this trench.</p>						
(II)	<b><u>Y-2 Type RCC Cable trench.</u></b>						
	WidthxDepth=325mm.x 305mm						
	GI Cable trays of 300mm width supported on HDG angles at height of 150 mm from bottom of trench shall be provided. Cable trench covers shall be doubly reinforced R.C.C. covers as per provided drawings, specifications, direction & approval of Engineer-In-Charge of CSPTCL.	RM	280				
(III)	<b><u>Y-3 Type RCC Cable trench.</u></b>						
	Width x Depth=850 mm.x 650 mm						
	2 layers of 450 mm width cable trays supported on HDG angles at height of 150 mm and 450mm from bottom of trench shall be provided. Cable trench covers shall be doubly reinforced R.C.C. covers as per provided drawings, specifications, direction and approval of Engineer-In-Charge of CSPTCL.	RM	200				
(IV)	<b><u>Y-4 TypeRCC Cable trench.</u></b>						
	Width x Depth=1200 mm.x 1150 mm						
	3 layers of 600mm width GI cable trays supported on HDG angles at height of 200 mm 450 mm and 700 mm from bottom of trench shall be provided . Cable trench shall be covered with RCC cast in situ slab. At every 2.0 m distance 700mm wide opening covered with 6.0 mm thick steel chequered plate cover shall be provided. Chequered plate cover shall be duly stiffened and fixed to the frame grouted in cable trench wall and RCC top slab, as per provided drawings, specifications, direction and approval of Engineer-In-Charge of CSPTCL.	RM	250				

5	Construction of RCC Box culvert for Cable trench- Road crossing as per approved drawings, specification and direction of Engineer Incharge of C.S.P.T.C.L.						
	For 5.0 m wide road.	No.	2				
6	Complete External water supply arrangement with two numbers minimum 150 mm diameter tube well bores , each with minimum 5000 litre per hour water output with separate pump houses ,3-phase water cooled submersible pumps of KSB/Kirlosker make of min. 2 H.P. or more as per approval of CSPTCL's engineer in charge, Crompton Greaves /Havells make control panels, Finolex/ Havells make cables ,two interconnected overhead tanks ( ISI marked ) of 1,000 litres capacity each ,above Control Room Building with complete water supply arrangements from both the bores to all the water tanks, from tank to control room building and from both the bores as well as from tank to all the earth pits with ISI marked medium grade pipe lines, fittings, fixtures etc. Of approved make as per specifications, in standard manner and as per direction of engineer in charge of CSPTCL	job	1				
7	Construction of RCC road with side drains, laid over CC 1:3:6 base, WBM sub base and over size metal soling complete as per specifications, provided drawing and direction of engineer in charge of CSPTCL						
(i)	5.0 m wide	R.M.	135				
8	Yard Leveling.						
a)	<b><u>YARD LEVELLING</u></b> Yard levelling up to required level through cutting in soil & disposal of excavated material in filling area or as directed by Engineer- in- charge with all leads and lifts, with all labour, material, T&P, transportation, stacking, spreading, compacting by vibrating plate compactor, dressing etc. complete in all respect including applying approved herbicides in entire area, providing required drains etc. as per site condition specifications, direction & approval of engineer in charge of CSPTCL.	Cubic Meter	20				
b.)	Yard levelling up to required level through filling with hard non expansive	CuM	22000				

	soil including,spreading, compacting by vibratory plate compactor, dressing etc. complete with all labour, material ., T&P, transportation etc. complete in all respect including applying approved herbicides in entire area providing required drains etc. as per site condition, specifications, direction & approval of engineer in charge of CSPTCL.						
9	Providing, stacking, spreading and compacting stone dust of 100 mm compacted thickness, in the yard area including all material, labour, T&P, royalty, taxes, etc. complete as per specifications,direction and approval of engineer in charge of CSPTCL.	CuM	1900				
10	Yard Metalling complete with 40 mm nominal single size ungraded crusher broken hard metal 100 mm thick including providing, stacking, spreading of metal, all transportation, loading and unloading, screening at site all material, labour, royalty ,taxes etc. complete as per specifications , direction and approval of engineer-in-charge of CSPTCL.	CuM	1900				
11	Steel Main gate 2.4 mtr high, 6 mtr wide (min. weight 300 Kg.) with wicket gate 1.5 mtr. Wide, fixed on 400x400mm RCC pillers complete with guide rails as per provided drawing, specifications, direction and approval of engineer-in-charge of CSPTCL	No.	1				
12	Sub station glow sign board (1800x1200 mm) size with GI support structures and illumination arrangement in front of sub station as per specifications & direction of engineer-in-charge of CSPTCL.	No.	1.				
13	Foundations for LIGHTING MAST structures as per approved drawings, specifications & direction of engineer-in-charge of CSPTCL.	No.	1				
14	Construction of rainwater harvesting tank including connecting the same to cable trenches with RCC drain as per specifications, provided drawing and direction of engineer in charge of CSPTCL	No.	1				
15	Construction of separate/combined RCC sump tank for collecting burnt Xmer oil for all the Xmers (Size min 133% of Xmer oil capacity or as per ISS) including submercible pump of 3 HP capacity for dewatering/draining of oil and pipe line from Xmer to sump tank ,as per provided drawing and direction of engineer in charge of CSPTCL.	No.	1				
16	Construction of 2400mm high un-climbable chain link mesh yard fencing						

	on <b>retaining wall</b> with hot dip galvanised chainlink mesh of 75mmx 75 mm x 8 gauge with 450 mm vertical height V shaped extension having six rows of barbed wire, brick masonry wall, RCC beam at bottom with PCC foundation etc., complete as per provided drawing, specifications and direction of engineer-in-charge of CSPTCL. a) with retaining wall height above NGL upto 1 meter b) with retaining wall height above NGL between 1 meter to 2 meter . c) with retaining wall height above NGL between 2 meter to 3 meter .	RM	61 221 206				
17	Providing and laying concrete path way if required with 100mm thick RCC 1:1.5:3 laid over 150 mm thick PCC 1:5:8, over 200 mm thick compacted hard soil complete in all respects as per drawing & directions of engineer in charge of CSPTCL.	SqM	100				
18	Foundation of Tubular pole	Nos.	10				
<b>TOTAL OF ANNEXURE - (C-1)</b>							

**Bidders are requested to offer rates for following “Extra items” which *if required* may be used for execution of the project. Please note that these rates shall not be used for comparative evaluation purpose.**

i)	Providing and placing in position RCC M-20 (1:1.5:3) in foundations, sub structures for columns, beams, footings etc., including all material, labour, T& P, curing etc., complete in all respects as per technical specifications, approved drawings and direction of engineer in charge of CSPTCL.	Cu .M	NIL				
ii)	Providing and placing in position Steel Reinforcement bars Fe 415 for RCC WORK in foundations, sub structures for columns, beams, footings etc including all material, labour, T&P ,binding with 9mm annealed binding wire etc. complete in all respects as per technical specifications, approved drawings and direction of engineer in charge of CSPTCL.	Kg.	NIL				
iii)	Providing and placing in position frame work for RCC work in foundations, sub structures for columns, beams, footings etc. For all	Sq.M	NIL				

	heights/depths including all material, labour, T&P complete in all respects as per technical specifications, approved drawings and direction of engineer in charge of CSPTCL.						
iv)	Back filling with excavated material obtained from excavation of foundations, cable trenches etc. around foundations including compaction by mechanical means, watering, all material, labour, T&P etc. complete in all respects as per technical specifications, approved drawings and direction of engineer in charge of CSPTCL.	Cu .M	NIL				
v)	Excavation in all types of soil for foundations, sub structures, for columns, beams, footings etc., for all depths/height i/c all material, labour,T& P in all respects as per technical specifications, approved drawings and direction of engineer in charge of CSPTCL	Cu .M	NIL				
vi)	<b>Excavation in soft rock/disintegrated rock</b> for foundations, sub structures, for columns, beams, footings etc., for all depths/height i/call material , labour ,T& P in all respects as per technical specifications, approved drawings and direction of engineer in charge of CSPTCL	Cu .M	NIL				
vii)	<b>Excavation in hard rock</b> for foundations, sub structures, for columns, beams etc., for all depths/height <b>with blasting</b> i/call material , labour ,T& P in all respects as per technical specifications, approved drawings and direction of engineer in charge of CSPTCL	Cu .M	NIL				
viii)	Excavation in hard rock for foundations, sub structures, for columns, beams etc., for all depths/height <b>without blasting</b> i/c all material , labour,T& P in all respects as per technical specifications, approved drawings and direction of engineer in charge of CSPTCL	Cu .M	NIL				

Signature of the Bidder

**NOTE:-**

- 1) Rates are required to be quoted for each and every item, even if the item has NIL quantity. The tendered rates of items against which no rate or price is entered by the tenderer will be taken zero and the price of same shall be deemed

to have been covered by rates/amount quoted in other items.

- 2) The “**Extra items**” will be got executed only in case of change in FGL. Additional quantities got executed on account of change in FGL **ONLY** shall be payable.
- 3) **EXECUTION OF “EXTRA ITEMS” OF CIVIL WORKS :-** In the event of execution of extra item mentioned in price bid Annexure C-1 (Civil Works), on completion of substation, total ordered value of supply of material, civil works and erection charges of substation in the tender shall be worked out with the unit rate of L-2 bidder. In case the total value when calculated with the unit rates of L-2 bidder is found lower, then the total payment shall be limited to the lower of the two. This condition may be kept in view while quoting the rates.
- 4) Please indicate Unit rate and GST in respective columns
- 5) Cess under B&OCWA: - Applicable cess @1% shall be deducted from each bill.
- 6) **The bidder is requested to visit the site before quoting the rates.** The rates should be offered considering all the requirements as per site conditions. Please note that no extra claim for any other work not explicitly covered in bill of quantity but required to complete the substation in all respects shall be given by CSPTCL in addition to the rates quoted in the Price Bid.
- 7) Rates should be quoted for each foundation separately. **Rates should not be quoted in LOT.**
- 8) The Quantity shown above may vary as per site conditions. The payment shall be done on actual measurement basis.
- 9) The entire cost of oil collection pit to be provided below transformer is deemed to be included in cost of foundation for transformer and shall not be paid separately. Accordingly rates for transformer foundations are to be quoted.
- 10) The quantity shown above includes foundation for equipments for future X’mer foundation & 132 KV feeder bay at proposed 220/132/33 KV Sub station at Patan ,Raipur.



- 11) **Safe bearing capacity of soil & probable FGL of substation site is indicated below, which may be referred for civil foundation drawing/designs attached with the tender document and levelling of switchyard :-**
- 12) i) Safe Bearing Capacity:-18-- T/m<sup>2</sup>  
ii) Drawings to be adopted for SBC range :-15 to 25--T/m<sup>2</sup> and the control room shall be designed for bearing capacity 18 T/m<sup>2</sup>.  
iv) Finished Ground Level (with reference to TBM):236.30m  
iv) Finished Yard level (With reference to TBM ): 236.50m  
v) Road Top level :236.70m  
vi) Foundation Top level :236.7m  
vii) Finished floor level of control room :As per existing control room.
- 13) Land contour plan of the area and land utilization plan are enclosed in Volume-III of this tender document.
- 14) Standard Civil foundation drawings of 220 KV,132KV& 33 KV structures / equipment are enclosed in Volume-III.
- 15) For yard levelling work described at Sl. No. 8 of this annexure, the material obtained from excavation of foundation, cable trenches etc. shall either be used for back filling with proper compaction using vibratory plate compactor etc. or shall be disposed off as per direction of Engineer-in-Charge for which no extra payment shall be admissible.
- 16) Dismantling of existing rain water harvesting pit also included in the scope of ontract for which no extra payment shall be admisiabile.
-

**Price Annexure - 220 KV S/S Patan**  
**ANNEXURE - (D-1) ERECTION CHARGES**

(Rates of individual items shall be quoted; rate in lot shall not be acceptable)

Sl.No.	Particular	Unit	Qty	Unit rate	GST@ 18% on unit rate	Total Unit Rate = 5+6	Total Amount = Sl. No.4 x Sl.No.7
1	2	3	4	5	6	7	8
1	STRUCTURE: Erection of S/S structure including fixing and alignment of templates for grotedd/ bolted type structure, foundation tightening of nut bolts, washers etc.	MT	206				
2	Stringing of ACSR conductor along with insulator string spacers, clamps, jumpering, droppers etc for -						
2.1	Twin Zebra ACSR	Km	850				
2.2	Single Zebra ACSR	Km	3500				
2.3	Stringing of overhead shield wires with stranded galvanised steel complete with fixing of strain clamps at the structures.	Km	1.5				
3	Unit rate for installation of transformer:-						
	160 MVA 220/132 KV X'mer complete with marshalling box, control cabinet with associated control, RTCC panel, NIFPS and other accessories.	No.	2				
4	Unit rate for erection of circuit breakers:-						
4.1	220 KV CBs	No.	5				
4.2	132 KV CBs	No.	4				
5	Unit rate for erection of isolators With & Without earth switch, piping, alignment of contacts & checking of operation etc.						
5.1	220 KV Isolators	No.	15				
5.2	132 KV Isolators	No.	12				

Sl.No.	Particular	Unit	Qty	Unit rate	GST@ 18% on unit rate	Total Unit Rate = 5+6	Total Amount = Sl. No.4 x Sl.No.7
1	2	3	4	5	6	7	8
6	Erection of Current Xmer & fixing of junction box including all accessories & making all connections etc.						
6.1	220 KV CTs	No.	15				
6.2	132 KV CTs	No.	12				
7	Erection of PT/CVT & fixing of junction box including all accessories & making all connections etc.						
7.1	220 KV PTs/CVT	No.	9				
7.2	132 KV PTs	No.	03				
8	Erection of L.A. & fixing of Leakage Counter including all accessories & making all connections etc.						
8.1	220 KV L.As	No.	12				
8.2	132 KV L.As	No.	12				
8.3	33 KV L.As	No.	3				
9	Erection of PI including all accessories & making all connections etc.						
9.1	220 KV Post / Polycon Insulators	No.	32				
9.2	132 KV Post Insulators/Polycon Insulators	No.	39				
9.3	33 KV Post Insulators/Polycon Insulators	No.	20				
10	Equipment for tertiary winding of 160 MVA Auto X-mer						
10.1	33 KV Potential X'mer (suitable for 66 KV insulation class) with terminal clamps	No.	6				
10.2	33 KV Isolator (suitable for 66 KV insulation class) with terminal clamps	Nos	2				
10.3	39 KV LA	Nos	6				
11	33 KV Isolator with terminal clamps	Nos	1				
	33/0.415KV, 500 KVA Station transformer (with oil & accessories) & clams complete with distribution box etc.	No.	1				

Sl.No.	Particular	Unit	Qty	Unit rate	GST@ 18% on unit rate	Total Unit Rate = 5+6	Total Amount = Sl. No.4 x Sl.No.7
1	2	3	4	5	6	7	8
12	Erection of DB, junction box, all accessories & making all connections etc.						
13.1	Main AC Distribution Board	No.	2				
13.2	Main DC Distribution Board	No.	2				
14	Control & Relay panel for 220 KV X'mer/feeder/Bus-coupler/Bus bar.	No.	6				
15	Control & Relay Panel for 132 KV Xmer/Feeder/Bus-bar	No.	5				
16	Bay Marshalling Kiosk	No.	4				
17	Battery 110 V, 600 A H	No.	1				
18	Battery: 48 V, 600 A H battery set	No.	1				
19	Battery Charger: 110 V, 600 A H	No.	1				
20	Battery Charger: 48 V, 600 A H	No.	1				
21	Installation Of perforated type cable Trays, accessories on cable racks in cable trenches.	job	1				
22	Cable Installations:-						
	Laying of cables on racks/ cable trays/ angle support, dressing of cables & all accessories for armoured control cables and termination of including fixing of cable double compression type glands, lugs for control/power cables	job	1				
23	Earthing Installations: Rates for installations including jointing equipment termination, fixing & clamping & hardware's such as saddle, clamps, cleats, plugs, nut-bolts washers & welding etc.						
23.1	25mm X 2500mm G.S. rods, earth electrodes directly driven in to earth including excavations as required & welding etc.	No.	200				
23.2	Providing Steel risers (above) including welding/ bolting to the structures at both endwith50 X 6 mm G.S.flats.	mtrs	3400				

Sl.No.	Particular	Unit	Qty	Unit rate	GST@ 18% on unit rate	Total Unit Rate = 5+6	Total Amount = Sl. No.4 x Sl.No.7
1	2	3	4	5	6	7	8
23.3	Providing earth mat 65x8 mm GI Flate duly buried in earth min 600 mm depth with welding complete and below risers including welding to the earth mat at one end bolting to the structures as per tender specification.	mtrs	9800				
24	Earthing pits as per tender specification						
	(a) 4 pipe	No.	4				
	(b) 2 pipe	No.	25				
25	Yard Lighting :- Installations of light fixtures on gantry columns, supply connections to the light fitting from nearest supply board in the yard etc complete.	Job	1				
26	Erection charges of High Mast.(Complete with Str. & Luminaries)	No.	1				
27	Automatic data logging system for energy meters	Set	1				
28	Substation Automation System complete	Set	1				
29	Visual monitoring system complete	Set	1				
30	Tubular pole (with str complete) assembled with 1 meter arm with lighting fixture of 50W LED	No.	10				
31	Installation of Fire detection & alarm system based on smoke detectors along with accessories complete as per technical specifications.	Set	1				
	<b>TOTAL OF ANNEXURE – D-1</b>						

**Note:-**

1. Please indicate Unit rate and GST in respective columns.
2. Cess under B&OCWA :- Applicable cess @ 1% shall be deducted from each bill.

**Signature of the Bidder**

**Price Annexure - 220 KV S/S Patan**  
**ANNEXURE (D-2) TESTING & COMMISSIONING CHARGES**

Sl. No.	Particular	Unit	Quantity	Unit rate	GST@ 18% on unit rate	Total Unit Rate = 5+6	Total Amount = Sl. No.4 x Sl.No.7
1	2	3	4	5	6	7	8
<b>(A)</b>	<b>Switch Yard Equipments:-</b>						
1.	220/132 KV, 160 MVA, 3-phase Power Transformer complete	No.	2				
2	220 KV SF6 breaker complete	No.	5				
3	220 KV CT	No.	15				
4	220 KV PT	No.	3				
5	220 KV CVT	No.	6				
6	132KV SF6 Ckt Breaker complete	No.	4				
7	132 KV CT having ratio800- 400/1-1-1	No.	12				
8	132 KV PT	No.	3				
9	132KV LA	No.	12				
10	Equipment for tertiary winding of 160MVA Auto X-mer:-						
10.1	33 KV Potential X'mer (suitable for 66 KV insulation class) with terminal clamps	No.	6				
10.2	33 KV Isolator (suitable for 66 KV insulation class) with terminal clamps	No.	2				
10.3	33KV Isolator	No.	1				
10.4	39 KV LA	No.	6				
11	33 /0.415 KV, 500 KVA Station X'mer (with Oil & Accessories) & clamps complete with distribution box etc.	No.	1				
<b>(B)</b>	<b>CONTROL ROOM EQUIPMENTS:</b>						

Sl. No.	Particular	Unit	Quantity	Unit rate	GST@ 18% on unit rate	Total Unit Rate = 5+6	Total Amount = Sl. No.4 x Sl.No.7
1	2	3	4	5	6	7	8
1	220 KV control & relay panel for 160 MVA X'mer	No.	2				
2	220 KV control & relay panel for 220 KV feeders	No.	2				
3	220 KV control & relay panel for 220 KV Bus transfer	No.	1				
4	220 KV Bus bar protection panel	No.	1				
5	132 KV control & relay panel for 160 MVA transformer	No.	2				
6	132 KV control & relay panel for 132 KV feeders	No.	2				
7	132 KV Bus bar protection panel	No.	1				
8	Exchange (for 220 KV S/S) 24/12 lines	No.	1				
9	Battery 110 V, 600 A H	Set	1				
10	Battery: 48 V, 600 A H battery set	Set	1				
11	Battery Charger: 110 V, 600 A H	Set	1				
12	Battery Charger: 48 V, 600 A H	Set	1				
13	ACDB / DCDB	No.	4				
14	Automatic data logging system for energy meters	Set	1				
15	Substation Automation System complete	Set	1				
16	Visual monitoring system complete	Set	1				
17	Lighting High Mast	No.	1				
18	Installation of Fire detection & alarm system based on smoke detectors along with accessories complete as per technical specifications.	Set	1				
<b>TOTAL OF ANNEXURE - D-2</b>							

**Note:-**

1. Please indicate Unit rate and GST in respective columns.
2. Cess under B&OCWA :- Applicable cess @ 1% shall be deducted from each bill.

**ANNEXURE –PV-1PRICE VARIATION FORMULA FOR POWER TRANSFORMERS**

CIN No. U99999MH1970GAPO14629



IEEMA/PVC/PWR TRF\_upto 400 KV/2015

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Effective from: 1<sup>st</sup> April 2015

**PRICE VARIATION CLAUSE FOR POWER TRANSFORMERS AND REACTORS  
 COMPLETE WITH ALL ACCESSORIES AND COMPONENTS  
 of ratings above 10 MVA or voltage above 33 kV up to 400 kV  
 Of supplied against domestic contracts**

This price variation clause is applicable for 'Power Transformers', ratings above 10 MVA or voltage above 33 kV up to 400 kV. The clause is to be used for domestic contracts. A separate price variation IEEMA/PVC/PWR TRF\_upto 400 KV/DE/2015 has been evolved for above types of Transformers supplied against export/deemed export contracts under special imprest licensing scheme.

The price quoted/confirmed is based on the input cost of raw materials/components and labour cost as on the date of quotation and the same is deemed to be related to prices of raw materials and all India average consumer price index number for industrial workers as specified in the price variation clause given below. In case of any variation in these prices and index numbers, the price payable shall be subject to adjustment, up or down in accordance with the following formula:

$$P = \frac{P_0}{100} \left( 10 + 29 \frac{C}{C_0} + 27 \frac{ES}{ES_0} + 7 \frac{IS}{IS_0} + 5 \frac{IM}{IM_0} + 7 \frac{TO}{TO_0} + 15 \frac{W}{W_0} \right)$$

Wherein,

- P = Price payable as adjusted in accordance with the above formula.
- P<sub>0</sub> = Price quoted/confirmed.
- C<sub>0</sub> = Average LME settlement price of copper wire bars (refer notes)  
This price is as applicable for the month, **ONE** month prior to the date of tendering.
- ES<sub>0</sub> = Price of CRGO Electrical Steel Lamination (refer note)  
This price is as applicable on the 1<sup>st</sup> working day of the month, **ONE** months prior to the date of tendering.
- IS<sub>0</sub> = Average price of steel Plates 10 mm thick (refer notes)  
This price is as applicable on the 1<sup>st</sup> working day of the month, **ONE** month prior to the date of tendering.
- IM<sub>0</sub> = Price of Insulating Materials (refer notes)  
This price is as applicable on the 1<sup>st</sup> working day of the month, **ONE** months prior to the date of tendering.
- TO<sub>0</sub> = Price of Transformer Oil (refer notes)  
This price is as applicable on the 1<sup>st</sup> working day of the month, **ONE** month prior to the date of tendering.
- W<sub>0</sub> = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base: 2001 = 100)  
This index number is as applicable on the first working day of the month, **THREE** months prior to the date of tendering.

IEEMA/PVC/PWR TRF\_upto 400 KV2015/1/3

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Effective from: 1<sup>st</sup> April 2015

For example, if date of tendering falls in June 2015, applicable prices of Copper Wire Bars ( $C_0$ ), Transformer Oil ( $TO_0$ ), Steel Plates 10 mm thick ( $IS_0$ ), CRGO Electrical Steel Laminations ( $ES_0$ ) and Insulating material ( $IM_0$ ) should be as on 1<sup>st</sup> May 2015 and all India average consumer price index no. ( $W_0$ ) should be for the month of 1<sup>st</sup> March 2015.

The above prices and indices are as published by IEEMA vide circular reference number IEEMA(PVC)/PWR\_TRF/\_/\_ ONE month prior to the date of tendering.

- C = Average LME settlement price of copper wire bars (refer notes)  
 This price is as applicable for the month, TWO months prior to the date of delivery.
- ES = Price of CRGO Electrical Steel Lamination (refer notes)  
 This price is as applicable on the 1<sup>st</sup> working day for the month, TWO months prior to the date of delivery.
- IS = Average price of Steel Plates 10 mm thick (refer notes)  
 This price is as applicable on the 1<sup>st</sup> working day of the month, ONE month prior to the date of prior to the date of delivery.
- IM = Price of Insulating Materials (refer notes)  
 This price is as applicable on the 1<sup>st</sup> working day of the month, TWO months prior to the date of delivery.
- TO = Price of Transformer Oil (refer notes)  
 This price is as applicable on the 1<sup>st</sup> working day of the month, ONE month prior to the date of delivery.
- W = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base: 2001 = 100)  
 This index number is as applicable on the first working day of the month, THREE months prior to the date of delivery.

For example, if date of delivery in terms of clause given below falls in December 2015, applicable prices of Copper Wire Bars (C), Insulating material (IM), CRGO Electrical Steel Lamination (ES) should be as on 1<sup>st</sup> October 2015 and Transformer Oil (TO), Plates 10 mm thick (IS) should be 1<sup>st</sup> November 2015 and all India average consumer price index no. (W) should be for the month of September 2015.

The date of delivery is the date on which the transformer is notified as being ready for inspection/despatch (in the absence of such notification, the date of manufacturer's despatch note is to be considered as the date of delivery) or the contracted delivery date (including any agreed extension thereto), whichever is earlier.

IEEMA/PVC/PWR TRF\_upto 400 KV2015/2/3

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Effective from: 1<sup>st</sup> April 2015

Notes: (a) All prices of raw materials are exclusive of modvatable excise/CV duty amount and exclusive of any other central, state or local taxes, octroi etc. transformers manufacturers import major raw materials like Copper, CRGO Steel Sheets and Plates etc. The landed cost of these imported raw materials includes applicable custom duty but exclusive of modvatable CVD.

(b) All prices are as on first working day of the month.

(c) The details of prices are as under:

1. The LME price of Copper Wire Bars (in Rs./MT) is the LME average settlement price of Copper Wire Bars converted into Indian Rupees with applicable average exchange rate of SBI of the month. This price is the landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.
2. The price of CRGO is the price of CRGO Electrical Steel Lamination in Rs./MT suitable for Transformers of rating above 10 MVA or voltage above 33 kV up to 400 kV
3. Price of steel is the average retail price of steel plates 10 mm thick as published by Joint Plant Committee (JPC) in Rs./MT as on 1<sup>st</sup> working day of the month.
4. The price of Insulating materials (in Rs./Kg) of pre-compressed pressboards of size 10 mm thick, 3200 mm x 4100 mm is the average C&F price in free currency per MT converted into Indian Rupees with applicable exchange rates prevailing as on 1<sup>st</sup> working day of the month as quoted by primary suppliers. This price is the landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.
5. The price of Transformer Oil (in Rs./K.Ltr) is the average price on ex-refinery basis as quoted by primary producers for supply in drums.

(d) Some purchasers are purchasing oil immersed Transformers from manufacturers without first filling of oil. Oil for first filling is procured and filled by the purchasers. For such supplies PVC formula, excluding Oil will apply as under:

$$P = \frac{P_0}{93} \left( 10 + 29 \frac{C}{C_0} + 27 \frac{ES}{ES_0} + 7 \frac{IS}{IS_0} + 5 \frac{IM}{IM_0} + 15 \frac{W}{W_0} \right)$$

Where description of P, P<sub>0</sub>, C, ES, IS, IM, W etc. remains same as mentioned earlier.

  
Deputy Director General

IEEMA/PVC/PWR TRF\_upto 400 KV2015/3/3

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**ANNEXURE –PV-2**  
**PRICE VARIATION FORMULA FOR INSTRUMENT TRANSFORMERS**

**A ( 72.5 KV & ABOVE )**

The price quoted/ confirmed is based on the input cost of raw materials /components and labour cost as on the date of quotation and the same is deemed to be related to prices of raw materials and all India average consumer price index number for industrial workers as specified in the price variation clause given below. In case of any variation in these prices and index numbers, the price payable shall be subject to adjustment, up or down, in accordance with the following formula:

$$P=P_0/100[18+13(C/C_0)+12(ES/ES_0)+12(IS/IS_0)+23(IM/IM_0)+6(TB/TB_0)+16(W/W_0)]$$

Wherein

- P = Price payable as adjusted in accordance with the above formula.  
P<sub>0</sub> = Price quoted/ confirmed.  
C<sub>0</sub> = Average LME settlement price of Copper wire bars (refer Notes)  
This price is as applicable for the month, two months prior to the date of tendering.  
ES<sub>0</sub> = C & F price of CRGO Electrical Sheet Steels (refer Notes)  
IS<sub>0</sub> = Whole Sale Price Index Number for “Iron & Steel (Base 1993-94=100)” (refer Notes)  
IM<sub>0</sub> = IEEMA Index for Insulator (Base January 2003 =100) (refer Notes).  
This index is as applicable on the first working day of the month, One month prior to the date of tendering.  
TB<sub>0</sub> = Price of Transformer Oil base stock (refer Notes)  
This price is as applicable on the 1<sup>st</sup> working day of the month, two months prior to the date of tendering.  
W<sub>0</sub> = All India Average Consumer Price Index number for industrial workers, as published by Labour Bureau, Ministry of Labour, Government of India (Base 1982=100).  
This index number is as applicable on the first working day of the month, three months prior to the date of tendering.

For example, if date of tendering falls in October 2005, the applicable prices of Copper Wire Bars (C<sub>0</sub>) and transformer oil base stock (TB<sub>0</sub>) should be for the month of August 2005, whereas the applicable price price of CRGO sheet (ES<sub>0</sub>) and IEEMA Index for insulator (IM<sub>0</sub>) should be as on 1<sup>st</sup> September 2005 and Whole Sale Price Index number of Iron & Steel should be for the week ending first Saturday of July 2005; and all India Average Consumer Price Index number (W<sub>0</sub>) should be for the month of July 2005.

The above prices and indices are as published by IEEMA vide circular reference number IEEMA/ PVC/ CTPT/ \_\_/ \_\_ prevailing as on the first working day of the month \_\_\_\_\_ i.e. ONE month prior to the date of tendering.

- C = Average LME settlement price of Copper wire bars (refer notes).  
This price is as applicable for the month, two months prior to the date of delivery.  
ES = C&F price of CRGO Electrical Steel Sheets (refer Notes)  
This price is as applicable on the 1<sup>st</sup> working day for the month, one month prior to the date of delivery.  
IS = Whole Sale Price Index Number for “Iron & Steel (Base 1993-94=100)” (refer Notes)  
This index number is as applicable for the week ending 1<sup>st</sup> Saturday of the month, three months prior to the date of delivery.  
IM = IEEMA Index for Insulator (Base January 2003 =100) (refer Notes).  
This index is as applicable on the 1<sup>st</sup> working day of the month, one month prior to the date of delivery.  
TB = Price of Transformer Oil base stock (refer Notes)  
This price is as applicable on the 1<sup>st</sup> working day of the month, two months prior to the date of delivery.

W = All India Average Consumer Price Index number for industrial workers, as published by Labour Bureau, Ministry of Labour, Government of India (Base 1982=100). This index number is as applicable on the first working day of the month, threemonths prior to the date of delivery.

For example, if date of delivery in terms of clause given below falls in December 2005, the applicable prices of Copper Wire Bars (C) and transformer oil base stock (TB) should be for the month of October 2005, where as the applicable price price of CRGO sheets (ES) and IEEMA Index for insulator (IM) should be as on 1<sup>st</sup> November 2005 and Whole Sale Price Index number of Iron & Steel (IS) should be for the week ending first Saturday of September 2005; and all India Average Consumer Price Index number (W) should be for the month of September 2005.

The date of delivery is the date on which the instrument transformer is notified as being ready for inspection/ despatch (in the absence of such notification, date of manufacturer's despatch note is to be considered as the date of delivery) or the contracted delivery date (including any agreed extension thereto) whichever is earlier.

Notes:-

- (a) All prices of raw materials are exclusive of modvatable excise/CV duty amount and exclusive of any other Central, State or local taxes, Octroi etc. Instrument transformer manufacturers import major raw materials like Copper, CRGO Electrical Steel Sheets and TOBS etc. The landed cost of these imported raw materials include applicable custom duty but exclusive of modvatable CVD.
- (b) All prices are as on first working day of the month.
- (c) The details of prices are as under:-
  1. The LME price of Copper Wire Bars (in Rs./MT) is the LME average settlement price of Copper Wire Bars for ONE month prior to the month of circular converted into Indian Rupees with applicable exchange rates prevailing as on 1<sup>st</sup> working day of the subsequent month. This price is landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.
  2. the price of CRGO Electrical Steel Sheets (in Rs./MT) is the average of C&F price in US \$ per MT converted into Indian Rupees with applicable exchange rate prevailing as on 1<sup>st</sup> working day of the month, as quoted by primary producers. This price is the landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.
  3. The wholesale price index number for "iron & Steel" is as published by the office of Economic Advisor, Ministry of Industry, Government of India, NewDelhi with base 1993-94=100. This whole sale price index number is being published weekly on provisional basis. However, the same gets finalised after eight weeks and is normally available after two months. Therefore we are considering in our calculations this final index for the first Saturday of the month two months prior to the date of which the prices of other raw materials such as Al, IM are published for the corresponding month.
  4. IEEMA index number for insulator (Base year 2003=100) is published as basic price circular for insulator vide reference IEEMA (PVC)/INSLR/\_\_\_\_/\_\_\_\_ applicable for IEEMA price variation clauses for insulator viz. IEEMA (PVC)/INSLR effective from 01<sup>st</sup> April 2003.
  5. The Price of TOBS is C&F price (in Rs./K.Ltr) for Group II grade 70 Base Oil as published in ICIS-LOR bulletin for the 1<sup>st</sup> week of previous month. This price is normally published in US\$ per US gallon, which is converted in Rs./K.Ltr. with applicable exchange rate prevailing as on 1<sup>st</sup> working day of the subsequent month. This price is landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.

**B (BELOW 72.5 KV)**

IEEMA/PVC/INST.TR (BELOW 72.5 KV)/2005

Effective from: 1<sup>st</sup> June 2005

**PRICE VARIATION CLAUSE FOR INSTRUMENT TRANSFORMERS BELOW 72.5 KV**  
**(Current and Potential Transformers designed for operation on system voltage below 72.5 KV)**

The price quoted/confirmed is based on the input cost of raw materials/components and labour cost as on the date of quotation and the same is deemed to be related to prices of raw materials and all India average consumer price index number for industrial workers as specified in the price variation clause given below. In case of any variation in these prices and index numbers, the price payable shall be subject to adjustment, up or down in accordance with the following formula:

$$P = \frac{P_0}{100} \left( 18 + 18 \frac{C}{C_0} + 20 \frac{ES}{ES_0} + 10 \frac{IS}{IS_0} + 12 \frac{ER}{ER_0} + 09 \frac{TB}{TB_0} + 13 \frac{W}{W_0} \right)$$

Wherein,

- P = Price payable as adjusted in accordance with the above formula.
- P<sub>0</sub> = Price quoted/confirmed.
- C<sub>0</sub> = Average LME settlement price of copper wire bars (refer notes)  
This price is as applicable for the month, two months prior to the date of tendering.
- ES<sub>0</sub> = C&F price of CRGO Electrical Steel Sheets (refer notes)  
This price is as applicable on the 1<sup>st</sup> working day of the month, one month prior to the date of tendering.
- IS<sub>0</sub> = Wholesale price index number for 'Iron & Steel (Base: 1993-94=100)' (refer notes)  
This index number is as applicable for the week ending 1<sup>st</sup> Saturday of the month, three months prior to the date of tendering.
- ER<sub>0</sub> = Price of Epoxy Resin (refer notes)  
This price is as applicable on the 1st working day of the month, one month prior to the date of tendering.
- TB<sub>0</sub> = Price of Transformer Oil Base Stock (refer notes)  
This price is as applicable on the 1<sup>st</sup> working day of the month, two months prior to the date of tendering.
- W<sub>0</sub> = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base 1982 = 100)  
This index number is as applicable on the first working day of the month, three months prior to the date of tendering.

For example, if date of tendering falls in October 2005, the applicable prices of Copper Wire Bars (C<sub>0</sub>) and Transformer Oil Base Stock (TB<sub>0</sub>) should be for the month August 2005, where as the applicable price of CRGO Electrical Steel Sheets (ES<sub>0</sub>) and Epoxy Resin (ER<sub>0</sub>) should be as on 1<sup>st</sup> September 2005 and Wholesale price index number for 'Iron & Steel' (IS<sub>0</sub>) should be for the week ending first Saturday of July 2005 and all India average consumer price index number (W<sub>0</sub>) should be for the month of July 2005.

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**ANNEXURE -PV-3**  
**PRICE VARIATION FORMULA FOR ISOLATORS AND SWITCHGEARS**  
**ABOVE 36KV**

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IEEMA/PVC/HT-SWGR (ABOVE 36KV)/2007

Effective from: 1<sup>st</sup> June 2007

**PRICE VARIATION CLAUSE FOR HT SWITCHGEAR AND CONTROLGEAR (ABOVE 36KV)**

The price quoted/confirmed is based on the input cost of raw materials/components and labour cost as on the date of quotation and the same is deemed to be related to prices of raw materials and all India average consumer price index number for industrial workers as specified in the price variation clause given below. In case of any variation in these prices and index numbers, the price payable shall be subject to adjustment, up or down in accordance with the following formula.

The price variation clause is split up into two parts. Part-I is for indigenous content of the switchgear and Part-II is for the import content of the switchgear.

**Part-I: Part variation clause for indigenous content of the switchgear (above 36KV)**

$$P = \frac{P_0}{100} \left( 19 + 17 \frac{IS}{IS_0} + 17 \frac{C}{C_0} + 13 \frac{AL}{AL_0} + 19 \frac{IN}{IN_0} + 15 \frac{W}{W_0} \right) - P_0$$

Wherein,

P = Price payable as adjusted in accordance with the above formula.

P<sub>0</sub> = Price quoted/confirmed.

IS<sub>0</sub> = Wholesale price index number for 'Iron & Steel (Base: 1993-94=100)' (refer notes)

This index number is as applicable for the week ending 1<sup>st</sup> Saturday of the month, three months prior to the date of tendering.

C<sub>0</sub> = Average LME settlement price of copper wire bars (refer notes)

This price is as applicable for the month, two months prior to the date of tendering.

AL<sub>0</sub> = Price of Busbar grade Aluminium (refer notes)

This price is as applicable on the 1<sup>st</sup> working day of the month, one month prior to the date of tendering.

IN<sub>0</sub> = IEEMA Index for Insulator (Base: January 2003=100) (refer notes)

This index number is as applicable on the 1<sup>st</sup> working day of the month, one month prior to the date of tendering.

W<sub>0</sub> = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base 2001 = 100)

This index number is as applicable on the first working day of the month, four months prior to the date of tendering.

For example, if date of tendering falls in May 2006, the applicable prices of average LME Copper Wire Bars (C<sub>0</sub>) should be for the month March 2006, where as the applicable price of Busbar grade Aluminium (AL<sub>0</sub>) and IEEMA index of Insulator (IN<sub>0</sub>) should be as on 1<sup>st</sup> April 2006 and Wholesale price index number for 'Iron & Steel' (IS<sub>0</sub>) should be for the week ending first Saturday of February 2006 and all India average consumer price index no. (W<sub>0</sub>) should be for the month of January 2006.

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Indian Electrical & Electronics Manufacturers' Association

IEEMA/PVC/HT-SWGR (ABOVE 36KV)/2007

Effective from: 1<sup>st</sup> June 2007

E = IEEMA's Banker's selling rate of exchange between foreign currency and Indian Rupees expressed in concerned foreign currency equivalent to Rupees 100 prevailing on the first Bankers working day four months prior to the date of delivery (refer notes)

D = Effective import duty rate in percentage (Excluding duties set off against MODVAT) as per item no. 85.38 of customs tariff act in so far as it applies to the parts of customs tariff item 85.35 prevailing on 1<sup>st</sup> working day of the calendar month, two months prior to the date of delivery.

D<sub>0</sub> = Effective import duty rate in percentage (Excluding duties set off against MODVAT) as per item no. 85.38 of customs tariff act in so far as it applies to the parts of customs tariff item 85.35 prevailing on 1<sup>st</sup> working day of the calendar month, one month prior to the date of tendering.

EC = Rate of exchange between foreign currency and Indian Rupees expressed in foreign currency equivalent to Rs. 100/- adopted by Customs prevailing on first working day of the calendar month, two months prior to the date of delivery (refer notes)

EC<sub>0</sub> = Rate of exchange between foreign currency and Indian Rupees expressed in foreign currency equivalent to Rs. 100/- adopted by Customs prevailing on first working day of the calendar month, one month prior to the date of tendering (refer notes)

Notes: (a) All prices of raw materials are exclusive of modvatable excise/CV duty amount and exclusive of any other central, state or local taxes, octroi etc. transformers manufacturers import major raw materials like Copper, CRGO Steel Sheets, TOBS and Insulating pressboards etc. The landed cost of these imported raw materials includes applicable custom duty but exclusive of modvatable CVD.

(b) All prices are as on first working day of the month.

(c) The details of prices are as under:

- 1) The wholesale price index number for 'Iron & Steel' is as published by the Office of Economic Advisor, Ministry of Industry, Govt. of India, New Delhi with base 1993-94=100. This wholesale price index number is being published weekly on provisional basis. However, the same gets finalized after eight weeks and is normally available after two months. Therefore, we are considering in our calculations this final index for the first Saturday of the months two months prior to the date of which the prices of other raw materials such as Al, IN are published for the corresponding month.
- 2) The LME price of Copper Wire Bars (in Rs./MT) is the LME average settlement price of Copper Wire Bars for one month prior to the month of the circular converted into Indian Rupees with applicable exchange rates prevailing as on 1<sup>st</sup> working day of the subsequent month. This price is the landed cost, inclusive of applicable customs duty only but exclusive of countervailing duty.
- 3) The price of Busbar grade Aluminium (in Rs./MT) is the average Ex-works price as quoted by primary producer of the Busbar size 152.4 x 6.35 mm flat approx. of grade equivalent to E91E as per IS 5082-1981 or latest.
- 4) The exchange rates that would be published by IEEMA would be for the following currencies only.
  - 1) US Dollars
  - 2) Pound Sterling
  - 3) Japanese Yen
  - 4) Euro

  
Authorized Signatory

**PRICE VARIATION FORMULA FOR ISOLATORS AND SWITCHGEARS**  
**(BELOW 36 KV )**



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IEEMA/PVC/SWGR/2001 (R-1)

Effective from : 1<sup>st</sup> January, 2002

**PRICE VARIATION CLAUSE FOR SWITCHGEAR AND CONTROLGEAR**

The price quoted/confirmed is based on the cost of raw materials/components and labour cost as on the date of quotation and the same is deemed to be related to prices of raw materials / components and all India average consumer price index number for industrial workers as specified in the price variation clause given below. In case of any variation in these prices and Index number, the price payable shall be subject to adjustment up or down in accordance with the following formula:

$$P = \frac{P_0}{100} \left( 25 + 17 \frac{IS}{IS_0} + 18 \frac{C}{C_0} + 10 \frac{Al}{Al_0} + 13 \frac{In}{In_0} + 17 \frac{W}{W_0} \right)$$

Wherein,

- P** = Price payable as adjusted in accordance with above formula.
- P<sub>0</sub>** = Price quoted/confirmed.
- IS<sub>0</sub>** = Wholesale price index of 'Iron and Steel' (base: 1993-94 = 100) (refer notes).  
This index is as applicable on the first week ending Saturday of the month, three months prior to the date of tendering.
- C<sub>0</sub>** = Price of electrolytic copper wire bars (refer notes).  
This price is as applicable on the first working day of the month, one month prior to the date of tendering.
- Al<sub>0</sub>** = Price of busbar grade aluminium (refer notes).  
This price is as applicable on the first working day of the month, one month prior to the date of tendering.
- In<sub>0</sub>** = Price of phenolic moulding powder for switchgear and controlgear of medium/lower voltage (upto 650 volts) or price of epoxy resin for HT switchgear (above 650 volts) (refer notes).  
This price is as applicable on the first working day of the month, one month prior to the date of tendering.
- W<sub>0</sub>** = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base 1982 = 100).  
This index number is as applicable for the month, four months prior to the date of tendering.

For example, if the date of tendering falls in May 2001, the applicable prices of electrolytic copper wire bars (C<sub>0</sub>), busbar grade aluminium (Al<sub>0</sub>) and insulating material (In<sub>0</sub>) should be for the month of April 2001 and wholesale price index of 'Iron and Steel' (IS<sub>0</sub>) should be for the first week ending Saturday of February 2001 and all India average consumer price index number (W<sub>0</sub>) should be for the month of January 2001.

The above prices and indices are as published by IEEMA vide circular reference number IEEMA(PVC)SWGR/\_\_\_ prevailing as on first working day of the month ..... i.e., one month prior to the date of tendering.

- IS** = Wholesale price index of 'Iron and Steel' (base: 1993-94 = 100) (refer notes).  
This index is as applicable on the first week ending Saturday of the month, four months prior to the date of delivery.
- C** = Price of electrolytic copper wire bars (refer notes).  
This price is as applicable on the first working day of the month, two months prior to the date of delivery.

IEEMA/PVC/SWGR/1/2



IEEMA/PVC/SWGR/2001 (R-1)

Effective from : 1<sup>st</sup> January, 2002

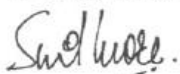
- Al = Price of busbar grade aluminium (refer notes).  
This price is as applicable on the first working day of the month, two months prior to the date of delivery.
- In = Price of phenolic moulding powder for switchgear and controlgear of medium/lower voltage (upto 650 volts) or price of epoxy resin for HT switchgear (above 650 volts) (refer notes).  
This price is as applicable on the first working day of the month, two months prior to the date of delivery.
- W = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base 1982 = 100).  
This index number is as applicable for the month, five months prior to the date of delivery.

For example, if the date of delivery in terms of clause given below falls in December 2001 the applicable price of raw materials viz: C, Al and In should be for the month of October 2001 and wholesale price index of 'Iron and Steel' (IS) should be for the first week ending Saturday of August 2001 all India average consumer price index number (W) should be for the month of July 2001.

The "date of delivery" is the date on which the switchgear equipment is notified as being ready for inspection/despatch. (In the absence of such notification the date of manufacturer's despatch note is to be considered as the date of delivery) or the contracted delivery date (including any agreed extension thereto), whichever is earlier.

- Notes: (a) All prices of raw materials are exclusive of modvatable excise/CV duty amount and exclusive of any other central, state or local taxes, octroi etc.
- (b) All prices are as on first working day of the month.
- (c) The details of prices are as under:
- 1) The wholesale price index number for 'Iron and Steel' is as published by the office of Economic Advisor, Ministry of Industry, Govt. of India, New Delhi, with base 1993-94 = 100. This wholesale price index is being published weekly on provisional basis. However, the same gets finalised after eight weeks and is normally available after two months. Therefore, we are considering in our calculations this final index published by Economic Advisor for the first Saturday of the months two months prior to the date of which the prices of other raw materials such as C, Al and In are published for the corresponding month.
  - 2) The price for electrolytic copper wire bars (in Rs/MT) is ex-godown price as quoted by the primary producer of copper.
  - 3) The price of busbar grade aluminium (in Rs/MT) is the average of ex-works price as quoted by the two primary producers for the busbar size 152.4 x 6.35 mm flat approximately, of grade equivalent to E91E as per IS 5082-1981 (or the latest).
  - 4) The price of insulating material (in Rs/Kg) is the average price of phenolic moulding powder quoted by three manufacturers. (for switchgear and controlgear of medium/lower voltage upto 650 volts). **or** is the price of epoxy resin quoted by a resin manufacturer for their grade CT 5900 or its nearest equivalent. (for HT switchgear above 650 volts).

For Indian Electrical & Electronics Manufacturers' Association



Authorised Signatory

IEEMA/PVC/SWGR/2/2

**ANNEXURE-PV-4****PRICE VARIATION FORMULA FOR LIGHTING ARRESTORS**

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IEEMA/PVC/ARSTR/2001

Effective from : 1<sup>st</sup> September 2001

**PRICE VARIATION CLAUSE FOR ZINK OXIDE GAPLESS LIGHTNING ARRESTER**

The price quoted/confirmed is based on the input cost of raw materials/components and labour cost as on the date of quotation and the same is deemed to be related to prices of raw materials and all India average consumer price index number for industrial workers as specified in the price variation clause given below in case of any variation in these raw material prices/indices, the price payable shall be subject to adjustment up or down, in accordance with the following formula:

$$P = \frac{P_0}{100} \left[ 20 + 15 \frac{ZN}{ZN_0} + 15 \frac{CO}{CO_0} + 10 \frac{BI}{BI_0} + 10 \frac{BC}{BC_0} + 10 \frac{FP}{FP_0} + 15 \frac{W}{W_0} + 5 \frac{AL}{AL_0} \right]$$

Wherein,

- P = Price payable as adjustable in accordance with the above formula.
- P<sub>0</sub> = price quoted/confirmed
- ZN<sub>0</sub> = Price of electrolytic high grade zinc (refer note).  
This price is as applicable on the first working day or the month, one month prior to the date of tendering.
- CO<sub>0</sub> = Price of Cobalt (refer notes)  
This price is as applicable on the first working day of the month, one month prior to the date of tendering.
- BI<sub>0</sub> = Price of Bismuth (refer notes)  
This price is as applicable on the first working day of the month, one month prior to the date of tendering.
- BC<sub>0</sub> = Price of Ball Clay (refer notes)  
This price is as applicable on the first working day of the month, one month prior to the date of tendering.
- AL<sub>0</sub> = Price of Aluminium Ingots (refer notes)  
This price is as applicable as the 1<sup>st</sup> working day of the month, one month prior to the date of tendering.
- FP<sub>0</sub> = Wholesale price index number for fuel, power, Light & Lubricants (refer notes).  
This index number is as applicable for the 1<sup>st</sup> Saturday of the month, three months prior to the date of tendering.
- W<sub>0</sub> = All India average consumer price index number for industrial workers, as published by the Labour Bureau, ministry of Labour, Govt. of India (Base 1982 = 100)  
This index number is as applicable for the month, three months prior to the date of tendering.

IEEMA/PVC/ARSTR/1/3

50 years in the service of the industry

IEEMA/PVC/ARSTR/2001

Effective from : 1<sup>st</sup> September 2001

For example, if the date of tendering falls in May 2001, the applicable basic price of raw materials i.e. ZN<sub>o</sub>, CO<sub>o</sub>, BI<sub>o</sub>, AL<sub>o</sub> and BC<sub>o</sub> should be as circulated by IEEMA as on 1<sup>st</sup> April 2001 and the applicable wholesale price index number for fuel, power, light and lubricants (FP<sub>o</sub>) should be for the week ending 1<sup>st</sup> Saturday of the month of February 2001 and all India average consumer price index number (W<sub>o</sub>) should be for the month of February 2001.

The above prices and indices are as published by IEEMA vide circular reference number IEEMA(PVC)ARSTR/ /\_ prevailing as on first working day of the month ..... i.e., one month prior to the date of tendering.

- ZN = Price of electrolytic high grade zinc (refer notes)  
This price is as applicable for the first working day of the month, two months prior to the date of delivery.
- CO = Price of Cobalt (refer notes)  
This price is as applicable for the first working day of the month, two months prior to the date of the delivery.
- BI = Price of Bismuth (refer notes)  
This price is as applicable for the first working day of the month, two months prior to the date of delivery.
- BC = Price of Ball Clay (refer notes)  
This price is as applicable for the first working day of the month, two months prior to the date of delivery.
- AL = Price of EC Grade Aluminium Ingots (refer notes)  
This price is as applicable for the first working day of the month, two months prior to the date of delivery.
- FP = Wholesale price index number for Fuel, Power, Light & Lubricants (refer notes)  
This index number is as applicable for the 1<sup>st</sup> Saturday of the month, four months prior to the date of delivery.
- W = All India average consumer price index number for industrial workers, as published by the Labour Bureau, ministry of Labour, Govt. of India (Base 1982 = 100).  
This index number is as applicable for the month, four months prior to the date of delivery.

If the date of delivery in terms of clause given below falls in December 2001, the applicable price viz: ZN, CO, BI, BC and AL should be those as published by IEEMA prevailing as on 1<sup>st</sup> October 2001 and the applicable wholesale price index number (FP) and all India average consumer price index number (W) both should be for the month of August 2001.

The date of delivery is the date on which the lightning arresters are notified as being ready for inspection/despatch (in the absence of such notification, the date of manufacturer's despatch note is to be considered as the date of delivery) or the contracted delivery date (including any agreed extension thereto whichever is earlier).

**ANNEXURE-PV-5****PRICE VARIATION CLAUSE FOR FABRICATED AND GALVANIZED TRANSMISSION LINE TOWER/ GI STRUCTURES**

The price quoted/confirmed is based on the input cost of raw materials/components and labour cost as on the date of quotation and the same is deemed to be related to prices of raw materials and all India average consumer price index number for industrial workers as specified in the price variation clause given below. In case of any variation in these prices and index numbers, the price payable shall be subject to adjustment, up or down in accordance with the following formula :-

Transmission line tower with both heavy and light angles :

$$P = P_0/100 \{ 11+32 (SBLR/SBLR_0) + 25 (SBIR/SBIR_0) + 09 (Zn/Zn_0)+23 (W/W_0) \}$$

**Wherein:**

P = Price payable as adjusted in accordance with the above formula.

P<sub>0</sub> = Price quoted/confirmed

SBLR<sub>0</sub> = Price of Steel Blooms- Retail (refer notes)

This price is as applicable on the 1<sup>st</sup> working day of the month, one month prior to the date of tendering.

SBIR<sub>0</sub> = Price of Steel Billets- Retail (refer notes)

This price is as applicable on the 1<sup>st</sup> working day of the month, one month prior to the date of tendering.

Zn<sub>0</sub> = Price of electrolytic high grade zinc (refer notes).

This price is as applicable on the 1<sup>st</sup> working day of the month, one month prior to the date of tendering.

W<sub>0</sub> = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base 2001 = 100) (Refer notes).

This index number is as applicable on the first working day of the month, three months prior to the date of tendering.

The above prices and indices are as published by IEEMA vide circular reference number IEEMA(PVC) TLT/ 2014/\_/\_one month prior to the date of tendering.

SBLR = Price of Steel Blooms-Retail (refer notes)

This price is as applicable on the 1<sup>st</sup> working day of the month, two months prior to the date of delivery.

SBIR = Price of Steel Billets-Retail (refer notes)

This price is as applicable on the 1<sup>st</sup> working day of the month, two months prior to the date of delivery.

Zn = Price of electrolytic high grade zinc (refer notes).

This price is as applicable on the 1<sup>st</sup> working day of the month, two months prior to the date of delivery.

W = All India average consumer price index number for industrial workers, as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base 2001 = 100) (Refer notes).

This index number is as applicable on the first working day of the month, four months prior to the date of delivery.

The "date of delivery" is the date on which transmission line towers are notified as being ready for inspection/dispatch. (In the absence of such notification the date of manufacturer's dispatch note is to be considered as the date of delivery) or the contracted delivery date (including any agreed extension thereto), whichever is earlier.

**NOTES :**

- (a) All prices of raw materials are exclusive of modvatable excise/CV duty amount and exclusive of any other central, state or local taxes, octroi etc.
  - (b) All prices are as on first working day of the month.
  - (c) The details of prices are as under:-
    - i. The price of Steel Bloom-Retail are the average Retail price of Blooms of size 150x150mm of all cities in Rs./MT; as published by Joint Plant Committee (JPC) Kolkata. Heavy angles of size above 110mm x110mm are deemed to be related to this price.
    - ii. The price of Steel Billets-Retail are the average Retail price of Billets of size 100mm of all cities in Rs./MT; as published by Joint Plant Committee (JPC) Kolkata. Light angles of size below & including 110mm x110mm are deemed to be related to this price.
    - iii. The price of electrolytic high grade zinc (in Rs./MT) is ex-works price as quoted by a primary producer.
- Cost weightage of re-rolling / conversion charges is included in Labour