POWER GRID COMPANY OF BANGLADESH LIMITED

Southern Chattogram and Kaliakoir Transmission Infrastructure Development Project

Design, Supply, Installation, Testing & Commissioning of 230 kV and 132 kV Transmission Lines for Southern Area of Chattogram Division & Bangabandhu Hi-Tech City at Kaliakoir on Turnkey Basis (Package-2)
(IOCT No. PGCB/AIIB/000308-BGD/TL/Package-2)

CLARIFICATION NO.1

Sl. No.	Reference and Queries of Prospective Bidders	PGCB's Reply/Clarification	Addendum (Yes-Y/No-N)
	Volume-1 of 3		
1.	**Volume-1,Section 8,SCC. Sub clause 9.11** **Contractor's Responsibilities (Rights-of-way)** Specifications as Per documents *"The Contractor shall obtain temporary rights-of-way for the mobilization of materials for the purpose of construction of transmission lines which are necessary for the Works in accordance with the Resettlement Plan (RP). … The Contractor shall obtain, at his risk and cost, any additional rights of way or facilities out- side the Site which he may require for the purposes of the Works in accordance with the RP."* Tenderer's Queries In Price schedule, the amount towards land compensation and crops, trees etc has been fixed in Price Schedule. The payment towards crops, trees to be made by subcontractor and the same will be paid by Employer on actual. Further, we understand if any compensation towards land during moblization of materials for the purpose of construction of transmission lines require to pay, same shall be paid by Employer. Please confirm.	Your understanding is not correct. Any compensation towards land during mobilization of materials for the purpose of construction of transmission lines required to pay, shall be paid by contractor.	N

2.	**Appendix 1 terms and Procedures of Payments Volume 1 of 3** **Payment & Conditions** As per the terms of payment 10% advance will be paid to Tenderer against below schedules as follows- **Schedule No-01** Plant and mandatory spare parts supplied from abroad -10% of CIP amount **Schedule No-02** Plant and mandatory spare parts supplied from within the employer's country. 10% of the total EXW amount. **Schedule No-03** Design services 10% of total design services amount. **Schedule No-04** Installation and other services -10% of the total installation and other services. We understand that, advance against each schedules shall be interest free or not. Please confirm.	Advance payment shall be interest free.	N
3.	**Appendix 1 terms and Procedures of Payments Volume 1 of 3** **Payment & Conditions** As per the terms of payment 10% advance will be paid to Tenderer against below schedules as follows- **Schedule No-01** of the total or pro rata CIP or amount upon issue of the Operational Acceptance Certificate, within 45 days after receipt of invoice **Schedule No-02** Pof the total or pro rata EXW amount upon issue of the Operational Acceptance Certificate, within 45 days after receipt of invoice. **Schedule No-04** of the total or pro rata value of installation services performed by the Contractor as evidenced by the Employer's authorization of the Contractor's monthly applications, upon issue of the Operational Acceptance Certificate, within 45 days after receipt of invoice. In case of delayed Testing & commissioning not attributed to the contractor, we recommend that, client shall be released balance 5 % against BG. Please Confirm.	Your recommendation is not accepted. Please follow the tender document.	N
4.	**Facilities** **2. As per the SCC clause- 19 subcontracting sub clause 19.6 of volume 1 of 3** Specifications as Per documents *The contractor shall not subcontract more than 50% of the facilities.* Tenderer's Queries We understand that contractor cannot subcontract more than 50% of the total contract	Your understanding was correct as per the originally issued tender document. An addendum is now being issued in this regard. As per the issued Addendum-1 (Sl. No. 09), The contractor shall not subcontract more than 50% of the Works (Schedule No. 4). Please see the Addendum-1 (Sl. No. 09).	Y

	value. Please confirm.		
5.	**Price adjustment** **As per Appendix 2, Section -09 , Volume 1-3** (i) Towers and Poles (including Bolts and Nuts) The formula for calculating the price adjustment to be applied to the contract price component of fabricated towers (including bolts & nuts) is as follows:- $P_A = P_0 \times \left(a + b\frac{L_1}{L_0} + c\frac{M_1}{M_0} + d\frac{N_1}{N_0}\right) - P_0$ Where, P_A = Price adjustment amount of fabricated towers & tower parts and poles including bolts and nuts (if the figure is negative, this amount has to be recovered by the Employer from the Contractor) P_0 = Ex-works/CIP price component (base price) of fabricated towers, tower parts and poles & hardware fittings (including bolts & nuts), less advance a= percentage of fixed elements in the contract price (a = 10%) b= percentage of labour components in the contract price (b = 12%) c= percentage of material (steel) components in the contract price (c = 61%) d= percentage of materials (zinc) components in the contract price (d =17%) L_0, L_1 = labour indices applicable to the appropriate industry in the country of origin at the base date and at the date for adjustment, respectively M_0, M_1 = Material (steel) indices applicable to the appropriate industry in the country of origin at the base date and at the date for adjustment, respectively. N_0, N_1 = Material (Zinc) indices applicable to the appropriate industry in the country of origin at the base date and at the date for adjustment, respectively. We understand that formula shall be applicable for tower and poles including Bolts and Nuts only. Further, IEEMA formula shall be applicable for H/W Fittings & Accessories. Please confirm.		Y
6.	**Defect Liability** **Volume-1, Section 7: GCC, Clause 27.2** Specifications as Per documents *The Defect Liability Period shall be 540 days from the date of Completion of the Facilities (or any part thereof) or 1 year from the date of Operational Acceptance of the Facilities (or any part thereof), whichever first occurs, unless specified otherwise in the SCC pursuant to GCC Subclause 27.10.* Tenderer's Queries In case of delayed commissioning not attributed to the contractor The EAR policy will be valid for 540 days from the date of completion of facilities or any part thereof) or 1 year from the date of Operational Acceptance of the Facilities (or any part thereof), whichever first occurs. Please confirm.	Please see the Addendum-1 regarding the defect liability period. Installation all risks insurance shall be valid up to defect liability period as period as per Appendix-3(b) insurance requirements, Section-9, Contract Forms .	Y
7.	**Limitation of Liability** Please refer to SCC Clause 30.1 wherein it is mentioned that Limitation of liability in the	Your request is not accepted. Kindly follow the tender documents.	N

	Contract is 1.5 times the Contract Price. Since the Contractor is bound up to the scope of work under the said Contract, therefore Limitation of Liability beyond Contract Value is highly risky. Request PGCB to kindly amend the said limitation up to Contract Value only.		
8.	**Payment Timeline for PGCB** Payment timeline for making payments by PGCB for Custom Duty and any other statutory tax should be clarified- As per GCC clause 14.2 & SCC clause 14.2, PGCB should make the payments of Custom Duty / VAT on materials / services to the Govt. of Bangladesh within the specific timeline as per the submitted L2 schedule. As the delay in payments delays the manufacturing / supply of the material which is to be imported.	It shall be paid by PGCB promptly as mentioned in the tender document.	N
9.	**Liquidated Damages** Liquidated Damage mentioned in SCC Clause 26.2 is incomplete. Please mention whether 0.5% of the Contract Value shall be per week or per month or per fortnight of delay.	Applicable rate for Liquidated Damage shall be 0.5% of the Contract Value or the relevant part thereof per week. Please see the Addendum-1 (Sl. No. 01).	Y
10.	**Payment towards Price Variation** Payment towards Price variation at the end of the Contract as mentioned in the tender documents is highly risky since the said payment may be negotiated by PGCB for making settlement with any dues on to the Contractor. Therefore, request PGCB to pay towards Price Variation on quarterly basis and not at the end of the Contract.	Any Payment resulting from price adjustment will be settled yearly starting from the contract effective date. Please see the Addendum-1 (Sl. No. 08).	Y
11.	**Regarding Land Compensation** Kindly confirm whether Land Compensation is applicable or not and whether Contractor is liable for payment towards the same or not.	Compensation shall be paid by employer as per item no. 7.12 of the price schedule section of installation and services but the contractor has to collect relevant data for tower footing in this regard.	N
12.	**Payment of compensation for using private land** Please refer to Sr. No. 7.12 of Installation and Other Services Price Schedule No 1.4, 2.4, 3.4 & 4.4 wherein lumpsum cost towards land compensation is already mentioned. In case during execution the amount towards the same exceed the mentioned amount in Price Schedule, we understand that M/s PGCB shall pay the extra amount directly to the affected landowners in actuals on submission of documentary evidence.	Since, it's the responsibility of the employer, if such issues arise then the employer will take care of this issue, However, if any relevant data needed to be collected in this regard then the contractor shall have to collect it.	N
13.	**Clause No. 14 of SCC: Para No. 1 of paragraphs added to Sub-Clause 14.1** **Clause:** *While making payment to the Contractor or instructing the respective bank to effect the*	(i) No TDS shall be withheld for schedule -1. (ii) The rate of tax is currently 7.5% for foreign tenderers and 7.0% for local tenderers. This rate may be updated time to time as per the	N

	payment to the Contractor, ***the Employer is entitled to deduct income tax at source at applicable rate(s), which is required as per law of the Employer's country from Schedule 2, 3 & 4.*** *In the event of withholding of income tax, the same shall be withheld and deposited to the govt. exchequer in the credit of Contractor by the Employer as per prevailing law of the Employer's country and evidence thereof shall be furnished to the Contractor.* Please Clarify (i) Whether any tax will be withheld from Price Schedule No.1? If yes, what will be the rate of withholding tax? (ii) At which rate the tax will be withheld from Price Schedule No. 2, 3 & 4?	instructions of the government.	
14.	**Clause No. 14 of SCC: Para No. 1 of replaced Sub-Clause 14.2** **Clause:** ***Any material import from abroad under price schedule No.1 shall be considered as the direct import of the PGCB*** *and PGCB's Business Identification Number (BIN) will be used for the import.* ***PGCB shall bear and promptly pay all relevant customs and import duties as well as other local taxes, e.g., a value added tax (VAT), advance income tax (AIT) and other charges, which imposed by the law of the country, that are to be incorporated into the facilities.*** *Accordingly, The items under-price schedule No.1 shall be quoted exclusive of customs duties, VAT, AIT and other relevant duties and taxes.* Whether the local taxes in form of Regulatory Duty(RD), Supplementary Duty(SD), Global Tax (GT) and Adjusting Factor (AF) which is payable at the time of import of goods are also paid/reimbursed by the employer?	RD, SD at the time of custom clearance shall be borne by the employer, Global Tax to be borne by the contractor and responsibility of bearing adjusting factor to be settled during execution as per contract provision.	N
15.	**Clause No. 14 of SCC: Para No. 2 of replaced Sub-Clause 14.2** **Clause:** ***Applicable VAT at the time of making payment to the Contractor as VDS (VAT deduction at source) for any or all of the items under the price schedule of this contract shall bear by the Employer*** *and deposit the same to the govt. exchequer as per prevailing law of the Employer's Country. The Bidder shall quote bid-prices of all items of the price schedules under this contract exclusive of VDS.* Whether any VDS can be deducted for Price Schedule No. 4 billing? If yes, then what will be the rate of such VDS ?	VDS will not be deducted for Price Schedule No. 4 billing.	N
16.	**Regarding Forest Clearance and Tree Cutting**	All administrative support shall be provided from PGCB regarding the forest clearance.	N

	We understand that Forest Clearance is in the scope of PGCB and compensation towards the same shall be borne by M/s PGCB. Please confirm the same. Also please confirm whether Tree Cutting including its compensation in Forest section shall be in the scope of Contractor or PGCB since Forest Clearance is in the scope of M/s PGCB. Please clarify and confirm.	Compensation shall be provided as mentioned in the price schedule, Installation and service section, item no. 7.12 & 7.13.	
17.	**Appendix -2, Price Adjustment (Towers & Poles)** Please refer to □0 of Price Adjustment formula of Towers & Poles wherein it is mentioned price component of hardware fittings. We understand that the same is tower accessories and not line hardware fittings. Please confirm the same.	The term "hardware fittings" is deleted to avoid confusion. Please see the Addendum-1 (Sl. No. 03).	Y
18.	**Price Variation for Installation Portion (Cement, Reinforcement Steel Portion)** The Contract Duration for the subject Project is 1260 days which is roughly 42 months. We have seen in the past that the prices for Steel, Cement has fluctuated quite substantially within a span on 1 to 2 years after Bid Submission and therefore Contractors had to shell out extra amount to get the work executed at site. In view of the same when the same is evident and specially when the contract duration is 42 months which is quite a long duration, request M/s PGCB to provide price adjustment for at least Cement and Reinforcement Steel which are the two major components of Installation portion so as to substantially minimize the loss due to the same.	Your proposal is not accepted. It shall be as per tender document.	N
19.	**Price Variation for Installation Portion (Cement, Reinforcement Steel Portion)** For installation portion, we request M/s PGCB to give price adjustment on labour portion since labour is continuously on a rise for a long duration project such as this it will be very difficult and challenging for Contractors to execute projects without having price adjustment in labour. In said Project where the impact of Civil portion is very high the risk becomes even higher. In view of the same request M/s PGCB to please allow price adjustment in installation portion for labour component which has a significant impact.	Your proposal is not accepted. It shall be as per tender document.	N
20.	**Section 1 ITB: Clause 18.6 (b)** Here in this clause, it is mentioned that "in case of Adjustable Price, prices quoted by the Bidder shall be subject to adjustment during performance of the contract to reflect changes in the cost elements such as labor, material, transport, and contractor's equipment in accordance with the procedures specified in the corresponding appendix to the Contract Agreement. A Bid submitted with a fixed price quotation will be treated as non responsive and be rejected.". We have the following clarification in this regards a. As per our understanding the above clause is applicable to all the items for which Price	Your understanding is correct.	

	variation is made applicable in Appendix 2 "Price Adjustment" in Section 9 Contract forms. Pls Confirm if the understanding is correct.		
21.	**Section 8 SCC: Clause 26, Completion Time Guarantee** Here it is mentioned that Applicable rate for liquidated damages: 0.5% (zero point five percent) of the contract price or the relevant part thereof. As per our understanding the rate shall be 0.5% Per Week of the contract price or the relevant part thereof. Pls confirm.	Your understanding is correct. Please see the addendum-1 (Sl. No. 01).	Y
22.	**Section - 1, ITB, Clause 18.6 (b) & Section 9, Contract Forms, Appendix 2 iii (e)** **Bid** **Specification** *A Bid submitted with a fixed price quotation will be treated as non-responsive and be rejected. The Bidder shall furnish the indexes (e.g. for labor and materials), their weightings and source in the Tables of Adjustment Data included in Section 4 (Bidding Forms).* And *If No data is entered for one item in the above table, the price adjustment does not apply to the item.* These two clause seems contradictory to each other, please confirm if bidder is allowed to quote on firm basis,	The latter text, "*If No data is entered for one item in the above table, the price adjustment does not apply to the item*", shall be deleted. Tenderers are not allowed to quote a fixed price, the prices quoted by the tenderer shall be adjustable as per TDS 18.6. Kindly see Addendum-1 (Sl. No. 06).	Y
23.	**Section - 1, ITB, Clause 21.3** *If a bid security is specified pursuant to ITB 21.1, the bid security shall be, at the Bidder's option, in any of the following forms: (a) an unconditional bank guarantee, (b) an irrevocable letter of credit, (c) a cashier's or certified check, or (d) swift message in the form of MT760. all from a reputable source from an eligible country as described in Section 5 (Eligible Countries). In the case of a bank guarantee, the bid security shall be submitted using either the Bid Security Form included in Section 4 (Bidding Forms) or another form acceptable to the Employer. The form must include the complete name of the Bidder. The bid security shall be valid for 28 days beyond the original validity period of the Bid, or beyond any period of extension if requested under ITB 20.* We understand, For Bid, counter bid security from employer's country is not required,	Your understanding is correct.	N

	request you to please confirm if our understanding is correct.		
24.	**Section - 7, GCC 26.1** *The Contractor guarantees that it shall attain Completion of the Facilities (or a part for which a separate time for completion is specified) within the Time for Completion specified in the SCC pursuant to GCC Subclause 8.2, or within such extended time to which the Contractor shall be entitled under GCC Clause 40 hereof.* We understand, that separate TOC will be issued by PGCB for Scope - 1 & Scope - 2, Please confirm if our understanding is correct.	Your understanding is correct.	N
25.	**Section - 8, SCC 9.11** *The Contractor shall obtain temporary rights-of-way for the mobilization of materials for the purpose of construction of transmission lines which are necessary for the Works in accordance with the Resettlement Plan (RP). Through its Environmental and Social Unit and Social Safeguard Consultant(s), the Employer shall collaborate with the contractor to implement the RP. The Employer shall also monitor Contractor's activity concerning the implementation of the Resettlement Plan, secure necessary budget, pay actual compensation cost and ensure timely disbursement of compensation and other entitlements to the Project Affected Entities via the Contractor, Social Safeguard Consultants, and its Environmental and Social Unit following the provisions of the RP and the Development Project Proposal (DPP) as updated from time to time. The Contractor shall obtain, at his risk and cost, any additional rights of way or facilities out- side the Site which he may require for the purposes of the Works in accordance with the RP.* We understand, contractor is to pay for crop compensation, tree cutting, demolition of house within corridor to secure ROW, however special allowance for vulnerable and significantly affected HHs's is in scope of PGCB. please confirm if our understanding is correct.	Your understanding is not correct. The Contractor shall obtain at his risk and cost, any additional rights of way or facilities outside the Site which he may require for the purposes of the Works in accordance with the RP. Therefore, any special allowance for vulnerable and significantly affected HHs's outside the site is in scope of the contractor.	N
26.	**Section - 8, SCC, 14** *While making payment to the Contractor or instructing the respective bank to effect the payment to the Contractor, the Employer is entitled to deduct income tax at source at applicable rate(s), which is required as per law of the Employer's country from Schedule 2, 3 & 4. … The Contractor shall be responsible for the payment of customs duties and VAT, income tax, other charges and levies for the items imported for civil works material specified in Price Schedule No.4.* From this, we have following understanding, please confirm if our understanding is correct. 1. For schedule - 1, Price are to be quoted exclusive Custom Duty, VAT, AIT, Global Tax or	1. Your understanding is not correct. Global tax shall be paid by the contractor. 2. Your understanding is correct.	N

	any other charges applicable in Bangladesh and same will be paid by PGCB. Please confirm. 2. For Schedule - 2, 3 & 4, prices are to be quoted exclusive of VAT and inclusive of AIT. VAT applicable in employer's country will be paid by PGCB on top of quoted prices. Please Confirm.		
27.	**Section - 8, SCC 26.2** *Applicable rate for liquidated damages: 0.5% (zero point five percent) of the contract price or the relevant part thereof.* Please confirm if liquidated damages are 0.5% per Week.	Applicable rate for Liquidated Damage shall be 0.5% of the Contract Value or the relevant part thereof per week. Please see the addendum-1 (Sl. No. 01).	Y
28.	**Section - 9, Appendix 2, iii (g)** *Any Payment resulting from price adjustment will be settled at the end of contract.* We request you to please make price adjustment at least quarterly.	*Any Payment resulting from price adjustment will be settled yearly starting from the contract effective date.* Kindly see Addendum-1 (Sl. No. 08).	Y
29.	**Section - 9, Appendix 3, (b)** *The Installation All Risk Insurance covers physical losses or damages to the Facilities at the Site, occurring prior to completion of the Facilities, with an extended maintenance coverage for the Contractor's liability in respect of any loss or damage occurring during the defect liability period while the Con- tractor is on the Site for the purpose of performing its obligations during the defect liability period.* We understand that all insurances must be from Sadharan Bima and EAR must be valid till defect liability period of the contract, please confirm if our understanding is correct.	Your understanding is correct	N
30.	**Payment towards statutory clearances, Permits, approvals or Licenses** **I) Clause-10, sub clause- 10.2, Section-7 (GCC), Volume-I** **&** **II) Clause 5.5, sub clause- 5.5.2, Section-5 (Access), Volume-II** Both mentioned clauses I) & II) are contradictory from each other. We understand that all licenses, permits, and/or approvals required by local, state, national, or public service undertakings as well as all mandatory approvals and fees for power lines, NH/SH/Railway crossings in the nation where the site is located must be obtained and Paid by the Employer. Kindly confirm.	Your understanding was correct as per the originally issued tender document. However, the mentioned clauses are contradictory and An addendum is now being issued in this regard. As per the issued Addendum-1 (Sl. No. 11), GCC 10.2 is revised in corresponding SCC 10.2. The Contractor shall be responsible for acquiring and providing legal and physical possession of the transmission line sites and access thereto. All related costs shall be paid by the contractor and	Y

		are deemed to be included in the contract price. Right of way shall be the responsibility of the Employer, whereas right of access shall be the responsibility of the contractor. Please see the Addendum-1 (Clause-11, 12 of Addendum-1).	
31.	**Section X Contract Forms** **Appendix 1 Terms and Procedures of Payment** On July 3, 2023, the UK Financial Conduct Authority (FCA) issued an announcement stating that the setting of the London Interbank Offered Rate (LIBOR) has now been permanently discontinued. Please change LIBOR to Euribor.	For foreign currency payments, the interest rate is SOFR plus 0.5%. Please see Addendum-1 (Sl. No. 05).	Y
32.	**Section IX PCC** SCC 45.5 (b) Contracts with foreign Contractors: The place of arbitration and Rules of procedure for arbitration proceedings shall be same as above 45.5(a) if agreed by the Contractor, otherwise shall be as mentioned below: - The place of arbitration shall be held in a neutral third country and Rules of procedure for arbitration proceedings shall be as per provisions of International Chamber of Commerce No place of arbitration is stated in SCC. Please specify the place of arbitration.	The place of arbitration shall be Singapore for foreign contractors. Please see Addendum-1 (Sl. No. 10).	Y
33.	**GCC 10.2** *The Employer shall be responsible for acquiring and providing legal and physical possession of the Site and access thereto, and for providing possession of and access to all other areas reasonably required for the proper execution of the Contract, including all requisite rights of way, as specified in the Appendix (Scope of Works and Supply by the Employer) to the Contract Agreement. The Employer shall give full possession of and accord all rights of access thereto on or before the date(s) specified in that Appendix.* Please specify the time schedule of land acquisition.	Land acquisition is not needed. Contractor will provide the relevant data regarding the tower locations after the survey. Employers will pay the fees for land usage for tower footing to the concerned DC office.	N
34.	**SCC 26.2** *Applicable rate for liquidated damages: 0.5% (zero point five percent) of the contract price or the relevant part thereof.*	Your understanding is correct. Please see the Addendum-1 (Sl. No. 01).	Y

	We understand that the Applicable rate for liquidated damages: 0.5% (zero point five percent) of the relevant part thereof per week. Please confirm our understanding.		
35.	**Section 4: Tender Forms** *Tender Security-Bank Guarantee forms- (c) having been notified of the acceptance of its Tender by the Employer during the period of Tender validity, (i) fails or refuses to execute the Contract Agreement, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITT.* We propose to change the word "execute" to "sign"	The proposed change is not acceptable. Kindly follow the tender documents.	N
36.	**Volume-I, Section-8, SCC, Cl. 14.1** While making payment to the Contractor or instructing the respective bank to effect the payment to the Contractor, the Employer is entitled to deduct income tax at source at applicable rate(s), which is required as per law of the Employer's country from Schedule 2, 3 & 4. We understand that with respect to payments made to the Contractor in its designated Indian Bank account towards items mentioned in Price Schedule 1.1 (Supply from Abroad), Employer shall not deduct income tax at source and total amounts as mentioned in the price schedule shall be paid. Tax liabilities if any imposed by the Bangladesh tax authorities on the Contractor towards such amount with respect to non deduction of Income tax at source shall be reimbursed / borne by Employer.	Your understanding is correct.	Y
37.	**Volume-I, Section-8, SCC, Cl. 14.2 (a)** a. Any material import from abroad under price schedule No.1 shall be considered as the direct import of the PGCB and PGCB's Business Identification Number (BIN) will be used for the import. PGCB shall bear and promptly pay all relevant customs and import duties as well as other local taxes, e.g., a value added tax (VAT), advance income tax (AIT) and other charges, which imposed by the law of the country, that are to be incorporated into the facilities. Accordingly, The items under-price schedule No.1 shall be quoted exclusive of customs duties, VAT, AIT and other relevant duties and taxes. Applicable VAT at the time of making payment to the Contractor as VDS (VAT deduction at source) for any or all of the items under the price schedule of this contract shall bear by the Employer and deposit the same to the govt. exchequer as per prevailing law of the Employer's Country. The Bidder shall quote bid-prices of all items of the price schedules under this contract exclusive of VDS. The Contractor shall be entirely responsible for payment of all taxes including sales tax or VAT, stamp duties, license fees and other such	i) Your understanding is correct. ii) Your understanding is correct. iii) Your understanding is correct. iv) Certificate for non-deduction of taxes shall not be given by employer. If any tax liabilities imposed by Bangladesh tax authorities on such non deduction of income tax at source shall be reimbursed / borne by the Employer. v) For Goods Supply from Abroad (under Price Schedule No. 1.1, 2.1, 3.1, 4.1), all applicable	N

	levies imposed outside the Employer's country. Kindly Confirm / Clarify the following points: i) We understand that the Consignee for the Goods under Price Schedule No. 1.1 (Supply from Abroad) shall be the Employer. ii) We understand that the Goods shall be imported on Incoterm CIP. iii) We understand the Items under Price Schedule 1 being exempted from Advance Income Tax, there shall be no tax deduction made by the Employer on remittances towards such goods. iv) Will the Employer provide any certificate for non-deduction of taxes? Further, if any tax liabilities imposed by Bangladesh tax authorities on such non deduction of income tax at source shall be reimbursed / borne by the Employer. v) We understand that all applicable VAT / VDS on purchase of goods and services as under the Contract shall be borne by the Employer. Thereby any taxes imposed by Bangladesh tax authorities on bidder towards VAT shall be borne by the Employer.	VAT / VDS on purchase of goods and services as under the Contract shall be borne by the Employer.	
38.	**Volume-I, Section-8, SCC, Cl. 14.2 (d)** The Contractor shall be liable to the Employer for customs duties and taxes paid by the Employer, and for other lawful taxes which may be or may become payable on the Contractor's equipment, tools and supplies imported for the works and subsequently sold in Bangladesh. The Contractor has to obtain the permission of the Employer prior to any sale. We understand that the subject to the condition mentioned in the Clause, temporary import of contractor tools & plant shall be exempt from any kind of duties, taxes in Bangladesh	Kindly follow the tender documents.	
39.	**Volume-I, Section-3, Cl. 2.3.2** Clause 2.2.3 (Pending Litigation) states that: "Tenderer's financial position and prospective long-term profitability still sound according to criteria established in 2.3.3 below and assuming that all pending litigation will be resolved against the Tenderer". The mention Clause 2.3.3 was not provided in the Bid Documents, we request you to kindly provide the same.	Clause 2.2.3 is revised. Please see Addendum-1 (Sl. No. 07). Clause 2.3.3 does not exist.	Y
40.	**Volume-I, Section-3, Cl. 2.3.2** Clause 2.3.2 states that: "Minimum average annual construction turnover of USD 37,000,000.00, calculated as total certified payments received for contracts in progress and/or completed within the last 3 years."	The bidder needs to provide Average Annual Construction Turnover as per Clause 2.3.2 of Section 3: EQC.	N

	However, Form FIN-2 states "Average Annual Turnover" . Kindly Clarify, whether bidder needs to provide Average Annual Turnover or Average Annual Construction Turnover.		
41.	**Volume-1, Section-7:GCC,24.6, page no. 138 of 217** As soon as possible after Completion, the Contractor shall complete all outstanding minor items so that the Facilities are fully in accordance with the requirements of the Contract, failing which the Employer will undertake such completion and deduct the costs thereof from any monies owing to the Contractor. We request you to clarify what does the "all outstanding minor items" refers to either it is for any unperformed scheduled items or any minor defects.	"all outstanding minor items" refers to any unperformed scheduled items.	N
42.	**I) Clause-10, sub clause- 10.2, Section-7 (GCC), Volume-I** The Employer shall acquire and pay for all permits, approvals, and/or licenses from all local, state, or national government authorities, or public service undertakings in the country where the Site is located which (a) such authorities or undertakings require the Employer to obtain in the Employer's name, (b) are necessary for the execution of the Contract, including those required for the performance by both the Contractor and the Employer of their respective obligations under the Contract, and (c) are specified in the Appendix (Scope of Works and Supply by the Employer) to the Contract Agreement. **II) Clause 5.5, sub clause- 5.5.2, Section-5 (Access), Volume-II** The Contractor shall obtain all necessary permissions, licenses or approvals from authorities which are required for any part of the work. The Employer shall assist the Contractor in obtaining those permissions. All costs for such permissions shall deem to be included in the Contract Price. Both mentioned clauses I) & II) are contradictory from each other. We understand that all licenses, permits, and/or approvals required by local, state, national, or public service undertakings as well as all mandatory approvals and fees pertaining to forest clerances, where the site is located must be obtained and Paid by the Employer. Kindly confirm.	Your understanding was correct as per the originally issued tender document. However, the mentioned clauses are contradictory and An addendum is now being issued in this regard. As per the issued Addendum-1 (Sl. No. 11), GCC 10.2 is revised in corresponding SCC 10.2. The Contractor shall be responsible for acquiring and providing legal and physical possession of the transmission line sites and access thereto. All related costs shall be paid by the contractor and are deemed to be included in the contract price. Right of way shall be the responsibility of the Employer, whereas right of access shall be the responsibility of the contractor. Please see the Addendum-1 (Sl. No. 11, 12 of Addendum-1).	Y
43.	**Clause 2.4.2 (a), Page # 3-6, Section 3: Evaluation and Qualification Criteria of Volume-1** **"Specific Construction and Contract Management Experience"** From the above requirements, we understand that –	(i) Your understanding is correct. (ii) Your understanding is correct. (iii) If the bidder performed a contract as JV	N

	(i) If the bidder is a "Single Entity", it should meet all the requirements (as listed in column 2 under heading "Requirement". (ii) If the bidder is a "Joint Venture" forming with two parties / three parties, one member should have the experience of meeting the requirement for two (2) comparable contracts and all other member(s) should have minimum experience either individually or as a Joint Venture member for construction of new or re-conductoring of 110kV or above voltage rating having at least 15km route length of single/ double circuit line in one contract. (iii) If the bidder performed a contract as JV partner, each of the JV Share percentage of the said contract value shall be considered as their contract value (which can be aggregated to determine the total cumulative value of USD 70,000,000 (seventy million) Kindly confirm if our understanding is correct; if not, please let us know the exact requirements as we are not certain about the precise requirements.	partner, only the JV Share percentage of the said contract value performed by the bidder shall be considered as their contract value.	
44.	**Scope of ROW, Crop Compensation, Land Compensation, Tree Cutting** As per Vol 2, Pg 5-7, Pg 6-8 and Pg 5-6, access roads, tree cutting and tree, crop and land compensation is in the scope of the contractor. However, in the Installation and Other services price schedules (1.4,2.4,3.4 and 4.4) Item Nos 7.12 and 7.13, the same is mentioned as in the scope of the Employer. Kindly confirm the scope of ROW, crop compensation, land compensation, tree cutting and statutory clearances.	ROW, crop compensation, land compensation, tree cutting are under the scope of the employer.	N
45.	**Section 8: Special Conditions of Contract : A new Clause 9.11 is added** *The Employer shall also monitor Contractor's activity concerning the implementation of the Resettlement Plan, secure necessary budget, pay actual compensation cost and ensure timely disbursement of compensation and other entitlements to the Project Affected Entities via the Contractor, Social Safeguard Consultants, and its Environmental and Social Unit following the provisions of the RP and the Development Project Proposal (DPP) as updated from time to time.* We understand that any type of compensation against Resettlement plan on the complete transmission line route will be paid by client. Only crop and tree compensation will be paid by contractor. Kindly confirm.	Payment of compensation for using private land to construct transmission line towers [based on area of tower footprint] and Payment of compensation for lines (for affected trees, crops etc. on the Right of Way and at the substation ends) both will be paid by the contractor as per the bidding document. See Item no 7.12 and 7.13 of Price schedules (1.4, 2.4, 3.4 and 4.4).	N

46.	**Tender document Volume 1 of 3. Appendix 2 - Price Adjustment** *Any payments resulting from price adjustments will be settled at the end of contract.* The completion schedule for Scope -I is 720 days and for scope -II is 1260 days. Considering the long completion duration of projects we request you to please accept our request to give variation every year instead of end of contract.	Any Payment resulting from price adjustment will be settled yearly starting from the contract effective date. Kindly see the Addendum-1 (Sl. No. 08).	Y
47.	**Tender document Volume 1 of 3. Appendix 2 - Price Adjustment** The completion schedule for Scope -I is 720 days and for scope -II is 1260 days. Considering the long completion duration of projects we request you to please accept the price variation for construction part also.	Your proposal is not accepted. Kindly follow the tender documents.	N
48.	**Appendix 1 – Terms and Procedures of Payment** In the event that the Employer fails to make any payment on its respective due date, the Employer shall pay to the Contractor interest on the amount of such delayed payment at the following rate: For foreign currency payments, the interest rate is LIBOR; and for local currency payments, Central Bank rate (Published by Bangladesh Bank in its website). For foreign currency payments, the interest rate is LIBOR. Please clarify the exact period for LIBOR. For local currency payments, Central Bank rate (Published by Bangladesh Bank in its website). Does this rate mean the Central Bank rate of the same term?	Kindly note that the interest rate SOFR plus 0.5% as per Addendum-1 (Sl. No. 5). For both foreign and local payments, the rate to be considered shall be for the following period/term: From 45 days after receipt of invoice to the date of payment.	
49.	**Appendix 2 – Price Adjustment** *Any payments resulting from price adjustments will be settled at the end of contract.* Please clarify when the payments resulting from price adjustments shall be paid to the Contractor.	Any Payment resulting from price adjustment will be settled yearly starting from the contract effective date. Kindly see the Addendum-1 (Sl. No. 08).	
	Volume-2 of 3		
50.	**Appendix A7.A, Section 7: Foundation, Volume 2 of 3:** Please refer to Appendix 7A.4 in Section7, Volume 2 of 3 where it is specified that for Soil Category 4 Foundation design, minimum 28% of ultimate uplift load (without foundation strength factor) to be resisted by submerged dead weight of piles and pile Cap is required. Can the dead weight of chimney and backfilled soil also be considered along with the pile	Weight of the chimney may be considered in this regard. For any part of foundation below ground level to be considered as submerged weight. Weight of backfill soil will not be considered in this regard.	N

	cap and pile while satisfying this condition? Please clarify		
51.	**Clause 7.1.4.6 Volume 2 of 3 & Schedule No. 1.4; 2.4; 3.4; 4.4- Installation and Other Services, Volume 3 of 3.** *"The locations of both river crossing tower, anchor tower and any other tower near the river, shall be finalized based on hydro and geo-morphological study of the selected rivers (See APPENDIX 7.A9). Regardless of shifting prediction in the morphological study, foundations of river crossing and anchor towers shall be designed as river crossing foundation. If normal towers are used for river crossing (instead of river crossing tower) then regardless of shifting prediction in the morphological study, first tower on both bank of the river shall be designed with river crossing foundation. River crossing foundations shall be treated as foundations on midstream of river."* With reference to above statement all river crossing piles are to be designed as mid-stream piles. Whereas, referring to Volume 3 of 3 Bid Proposal sheet, pile foundations for TT1DT6 (2Nos); TT 1D1(2Nos); TT 4D1 (2 Nos) , TT 2D1 (2 Nos), TT 2DT6 (2 Nos), TT 2DR (1 Nos), & TT 2DAX (1 Nos) are given under Non River Crossing Category. Above two statements are contradictory to each other. Hence, as per our understanding piles of only 2DR (1 No), 2DR M20 (1 No) & 2DAX (2 No) are to be designed as per River crossing piles i.e. with scour, river velocity, discharge and HFL consideration. Further, TT1DT6 (2Nos); TT 1D1(2Nos); TT 4D1 (2 Nos) , TT 2D1 (2 Nos), TT 2DT6 (2 Nos), TT 2DR (1 Nos), & TT 2DAX (1 Nos) are to be designed as Non River Crossing Category i.e. without Scour, water velocity and discharge consideration, and only HFL consideration is to be considered.	Any tower [either river crossing Type (2DR, 2DAX0 or normal type tower (2DT6, 2D1, 4D1, 1D1, 1DT6)] that will be used for crossing a river should be designed considering some parameter such as scour depth, river velocity, discharge etc. This type of foundation will be denoted as river crossing foundation and to be designed as foundation on the midstream of the river. If a river crossing type tower (2DAX, 2DR) will be used in forest area to obtain required clearance, their foundation will be treated as normal foundation, i.e., no need to consider scour depth, water velocity etc.	N
52.	**Reaction 132 kV DC, 4C & 230kV NZTL** Please confirm that 132 KV pile foundations are to be designed as per provided foundation reactions of 132 KV Narrow based towers.	For 132 KV Narrow based double circuit towers, please follow Annex 8.13(1). For 132 KV four circuit towers, please follow Annex 8.13(2).	N

	Annex 8.13(1): 132kV Double Circuit Towers (Narrow Base Width) - **(Including Foundation Overload Factor 1.23)** **Annex 8.13(2) 132kV Four Circuit Towers** **(Including Foundation Overload Factor as 1.23 for 1QL and 1.35 for others)**		
53.	**230kV DC (High Wind Zone) and 4C Tower Reaction** Foundation reactions for TT 2DR, TT 2DR M20 and TT 2DAX are not available in provided tender documents. Please provide.	Please see the Addendum-1 (Sl. No. 15, Attachment-1).	Y
54.	**230kV DC (High Wind Zone) and 4C Tower Reaction & Reaction 132 kV DC,4C & 230 kV NZTL** There are 2 different sets of foundation forces for TT 2DL, TT 2DT6 & TT 2D25 are provided, with difference in foundation load magnitude. Please confirm correct foundation forces are to be adopted for design consideration.	Please follow the Volume 2 of 3 of the bid document.	N
55.	**230kV DC (High Wind Zone) and 4CTower Reaction** In addition to point no 5, if we have to consider foundation reaction for TT 2QT6 and TT 2DT6 from reference document (**230kV DC (High Wind Zone) and 4CTower Reaction),** there are 2 sets of foundation forces (25-60 deg) and (0-30 deg) terminal towers are given. As per our understanding, we have to consider the critical most load combinations out of both loadings for design consideration.	Your understanding is not correct. Foundation forces for Tower Type 2QT6 & 2DT6 with 25-60 deg. dev is used for angle tower and Foundation forces for Tower Type 2QT6 & 2DT6 with 0-30 deg. dev is used only for terminal tower.	N

Tower Type	Down Thrust (Along the Leg)	Uplift (Along the Leg)	Horizontal Component	
			Hx (Transverse)	Hz (Longitudinal)
	Kg	kg	kg	kg
1DL	115226	107703	772	772
1D1	190459	177936	3339	3339
1D25	264413	212986	5839	5839
1DT6 (Angle)	340720	258860	5853	5853
1DT6 (Terminal)	375471	433954	6537	6537
1DR	653454	657055	23264	15652
1DAX	423418	401070	43473	48594

Tower Type	Down Thrust (Along the Leg)	Uplift (Along the Leg)	Horizontal Component	
			Hx (Transverse)	Hz (Longitudinal)
	Kg	kg	kg	kg
1QL	127705	111399	4118	2449
1Q15	255355	229080	5531	4066
1Q30	306244	279876	6808	5344
1QT6 (Angle)	411063	364820	8929	7790
1QT6 (Terminal)	502180	459627	10039	8044

	KEC INTERNATIONAL LTD. MUMBAI-400083 FOUNDATION FORCES FOR TOWER TYPE "2DTs" (0-40deg dev) SHEET NO. 205 OF 207 DRG.NO.: A 196/DES-3 **Summary of Ultimate Foundation forces for Basic Tower All Extensions** **Foundation forces for tension tower** Sr. No. | Model | Load Case | Leg Member | Force in Leg Dir. (kN) | Residual Shear Perpendicular To Leg (kN) | Residual Shear Horizontal To Leg - Res. (kN) | Residual Shear Horizontal To Leg - Long. (kN) | Residual Shear Horizontal To Leg - Tran. (kN) | Total Long. Force (kN) | Total Tran. Force (kN) | Total Vert. Force (kN) Foundation Forces along LEG Direction 1 | Run #1 08 a 196 2dB +15m extension.tow | LC01_60°Ten_0 deg wind_NC_Vmax | g10BaP | 7339.144 | 124.115 | 125.807 | 11.474 | 125.343 2 | Run #1 08 a 196 2dB +15m extension.tow | LC02_60°Ten_0 deg wind_NC_Vmin | g10BaXY | -4552.841 | 161.852 | 163.886 | 3.828 | 163.925 3 | Run #1 08 a 196 2dB +15m extension.tow | LC27_60°Ten_0 deg wind_NC_Single Circuit_Vmax | g10BaX | -2320.416 | 197.097 | 198.447 | 42.774 | 193.782 4 | Run #1 08 a 196 2dB +15m extension.tow | LC27_60°Ten_0 deg wind_NC_Single Circuit_Vmax | g10BaX | -2320.416 | 197.097 | 198.447 | 42.774 | 193.782 Foundation Forces along Global Direction (Vertical Direction) 1 | Run #1 08 a 196 2dB +15m extension.tow | LC01_60°Ten_0 deg wind_NC_Vmax | g10BaP | -1131.33 | -1240.2 | 7144.79 2 | Run #1 08 a 196 2dB +15m extension.tow | LC02_60°Ten_0 deg wind_NC_Vmin | g10BaXY | -1006.59 | -1168.58 | -8411.74 3 | Run #1 08 a 196 2dB +15m extension.tow | LC01_60°Ten_0 deg wind_NC_Vmax | g10BaP | -1131.33 | -1240.2 | 7144.79 4 | Run #1 08 a 196 2dB +15m extension.tow | LC01_60°Ten_90 deg wind_NC_Vmax | g10BaP | -1138.75 | -1211.29 | 7020.4 Notes 1 Above loads are with Tower factored loads in kN. 2 For foundation design, the corresponding overload factors shall be considered extra. 3 Tower slope = 8.9 deg 4 Hole to hole Width at 0.0m lvl = 9.0m KEC INTERNATIONAL LTD. MUMBAI-400083 FOUNDATION FORCES FOR TOWER TYPE "2DTs" (0-30deg) TERMINAL TOWER SHEET NO. 209A OF 207 DRG.NO.: A 196/DES-3 **Summary of Ultimate Foundation forces for Basic Tower All Extensions** **Foundation forces for terminal tower** Sr. No. | Model | Load Case | Leg Member | Force in Leg Dir. (kN) | Residual Shear Perpendicular To Leg (kN) | Residual Shear Horizontal To Leg - Res. (kN) | Residual Shear Horizontal To Leg - Long. (kN) | Residual Shear Horizontal To Leg - Tran. (kN) | Total Long. Force (kN) | Total Tran. Force (kN) | Total Vert. Force (kN) Foundation Forces along LEG Direction 1 | Run #1 08 a 196 2dB +15m extension.tow | Out pt - L245_30°DE_0 deg wind_NC_Vmax | g10BaP | 7331.966 | 119.756 | 118.675 | 22.356 | 116.55 2 | Run #1 08 a 196 2dB +15m extension.tow | L25_30°DE_20 deg wind_NC_Vmin | g10BaXY | -6552.803 | 137.606 | 140.457 | 53.946 | 124.967 3 | Run #1 08 a 196 2dB +15m extension.tow | Out pt - L761_0°DE_0 deg wind_NC_Single Circuit_Vmax | g10BaX | 185.398 | 191.544 | 192.696 | 50.202 | 189.985 4 | Run #1 08 a 196 2dB +15m extension.tow | Out pt - L201_0°DE_0 deg wind_NC_Single Circuit_Vmax | g10BaX | 185.398 | 191.544 | 192.696 | 50.202 | 189.985 Foundation Forces along Global Direction (Vertical Direction) 1 | Run #1 08 a 196 2dB +15m extension.tow | Out pt - L245_30°DE_0 deg wind_NC_Vmax | g10BaP | -1141.06 | -1235.28 | 7137.41 2 | Run #1 08 a 196 2dB +15m extension.tow | L26_30°DE_30 deg wind_NC_Vmin | g10BaXY | -1059.29 | -1124.9 | -8369.51 3 | Run #1 08 a 196 2dB +15m extension.tow | Out pt - L245_30°DE_0 deg wind_NC_Vmax | g10BaP | -1141.06 | -1235.28 | 7137.41 4 | Run #1 08 a 196 2dB +15m extension.tow | L308_30°DE_45 deg wind_NC_Vmax | g10BaP | -1178.85 | -1188.71 | 7026.35 Notes 1 Above loads are with Tower factored loads in kN. 2 For foundation design, the corresponding overload factors shall be considered extra. 3 Tower slope = 8.9 deg 4 Hole to hole Width at 0.0m lvl = 9.0m Kindly confirm whether our understanding is correct or not?		
56.	**Weight & BOM** Weight and Bill of Materials for the following is not received. Please provide the same. a) 2DL +15M BE b) BOM of 1Q15 (1.5M BE)	a. Please see the Addendum-1 (Sl. No. 20, Attachment-5). b. The Employer shall provide structural/erection drawings, available shop drawings and available bill of materials of all types of transmission line towers/Pole and their extensions as required to the Contractor after placement of award, in sequence, suiting the project requirement upon written request of the Contractor. However, if the Contractor needs to prepare any additional structural and shop drawings or make any correction of existing drawings, these have to be prepared by the Contractor without any additional cost. In such case, the Contractor has to submit	Y

		relevant documents/drawings for approval of the Employer.	
	Volume 2 of 3: Annex 8-10 As per tech specification, "All bolts below the bottom cross arm level shall be locked by locknuts (antitheft block type)". However, in structural drawings provided, bolts mentioned below bottom cross arm panels and body extension panels are not given as anti-theft lock and nuts. **Please clarify the same.**	Please follow the technical specification.	N
57.	**Regarding Technical Specification of Reinforcement Steel & Cement for Salt Pan Location** As understood from Walk over Survey of 230KV Anowara – Cox's Bazar (North) line, more than 50% locations will fall in Salt Pan locations. Please clarify and confirm whether any special grade of Cement and Reinforcement Steel (Epoxy coated) shall be used for these locations.	No epoxy coated reinforcement and special grade of cement shall be used. Higher concrete clear cover is used instead.	N
58.	**Structural Drawings provided** Please refer to Structural drawings provided wherein separate step bolt lengths are given for various 132KV and 230KV towers. For example 1Q15/1QL/1QT6 – M16x210 1Q30 – M16x200 1D1/1D25/1DL/1DT6 – M16x180 1Q1/2Q15/2Q30/2QL/2QT6 – M16x265 2DAX/2DR/2D1/2D9/2D25/2DL/2DT6-M16x235 Please clarify whether we shall consider step bolt lengths as per drawings or common length for all the towers, and what should be the magnitude for it.	Please follow the step bolt lengths as per drawings.	N
59.	In this package's scope there are four lines and one of the lines has the scope of supplying ACCC conductor and other three have the scope of supplying ACSR conductor. Generally, Conductor manufacturers are the same but the core manufacturer is different for ACCC conductors. As per clause no. 18.1.11,Witnessing of tests by employer, Section-18, provision for FAT for conductors is mentioned but for ACCC only 1.55km is in the scope of supply & installation. Do we need to perform FAT for the core of ACCC?	FAT is mandatory, however, witnessing the FAT of core shall not be needed. Please see the Addendum-1 (Sl. No. 15)	Y

60.	**Section 3: Quality Assurance, Annexure- 3-5 Field Quality Plan for Transmission Line** Under This Field Quality Plan (FQP) template at Item Number 4 "Tower Foundation" Item B Classification Point (C) Concrete Strength (Cube Comp Strength) it is written that per tower location One Sample of 4 Cubes to be taken for Concrete strength checking while in the Same FQP item No 5 Pile Foundation It is mentioned that for each pile One Set of Cubes (4 Nos) to be taken and tested for 7 & 28 days strength. We have the following clarification in this regard a. Kindly clarify which specs is to be followed for cube testing i.e One set per tower or one set per pile? b. It is to submit that logistically it is practically challenging to handle 4 Cubes per pile and for 16-20 pile foundation about 64-80 cubes are to be taken and properly cured and tested. The subject requirement is practically hindering the whole project progress and takes huge amount of time & financial resource to maintain the logistics associated with the cube testing. In view of the practical challenge and it is requested to kindly review the FQP and amend the cube sampling to one set per leg of pile foundation. Please clarify your position in this regard. c. Also, it is written that the cube testing at Employer's approved laboratory, We understand that if the contractor Establish as Cube Testing Machine (CTM) which is calibrated by BUET/Any other Approved Authorities and further approved by Employer and the Cube test performed on such CTM & witnessed by employer, then the reports must be well acceptable by the employer. Pls Clarify your position in this regard.	a) and b) Please follow- One set for each leg. For Pile caps, beams, Chimney, one set for every 6 Cu.m. or part thereof for each day of concreting. Each set consists of four cubes, one for 7 days testing and two for 28 days testing shall be taken. c) Bidder may establish material lab on site. Test equipment shall be calibrated from BRTC, BUET.	N
61.	**Section 6: Survey & Soil Investigation, Clause 6.4.2 (SPT)** Here in this clause it is mentioned that minimum depth of soil investigation is 30 meters for overland Foundation and 60 meters for River Crossing Foundation. We have the following clarification If the foundation design of the location itself demands pile length far less than 30 meters and we get 3 Consecutive reading of minimum 50 SPT well before 30-meter depth, then the soil investigation can be stopped at the length lesser than 30 meter itself. Pls clarify.	Minimum depth of soil investigation shall be 30m and 60m for overland and river crossing tower foundation respectively irrespective of soil condition or properties. If higher depth is required for design purpose, the bidder will perform necessary test and in such case no additional payment will be given.	N
62.	**Section 7: Foundations, Appendix 7. A1** Here it is mentioned that for any other type of proven pile foundation the proposal should be made at the bid stage itself. However, our submission is that the same must be allowed during project execution stage also. For your clarification please.	Tower foundation shall be of cast-in-situ bored pile only. No other type foundation shall be accepted.	N

63.	**Section 9: Insulators, Clause 9.6.2 Type Test, Item (i) : Insulator Unit** Here it is mentioned If the type tests for fog type insulators are not available, the tests shall be performed as per IEC which shall include the aforesaid tests in laboratories as listed below during contract execution stage in presence of Employer's Engineers. Cost of such test and witness shall be deemed to be included in the Contract Price. We have the following clarification in this regard a. In case the insulator supplier has the Type Test Reports Compliant to the bid requirement but for Normal Standard Insulator and not for fog type insulators, then all the type tests as required for Insulator units in the bid shall need to be performed for fog type Insulators. Pls Confirm if the understanding is correct. b. Since there are all ratings of insulators namely 70 KN, 120 KN, 210 KN, 300 KN, as per our understanding all KN rating fog type Insulators shall require to be type tested. Please confirm if the understanding is correct.	a. Your understanding is correct. b. Your understanding is correct.	N
64.	**Section 9: Insulators, Clause 9.6.2 Type Test, Item (ii) : Insulator Sets** Here it is mentioned that If the type tests for insulator sets are not available as offered combination of insulator & fitting manufacturer (except low duty sets) with proposed design, the tests shall be performed in laboratories mentioned in Clause 9.6.2 (i) during execution stage in presence of Employer's Engineers. Cost of such test and witness shall deem to be included in the Contract Price. We have the following clarification for your response please a. As per our understanding the insulators sets with fog type Insulators & hardware fitting shall need to be type tested during execution stage in case similar type Insulator units & Hardware Fitting Combination test report is not available at the time of bidding. Pls confirm if the understanding is correct. b. The project has 230 kV & 132 kV Overland Lines and River Crossing Sections and associated Insulators Set for Overland & River Crossing Sections. Whether both 230 kV & 132 kV Voltage Levels & all KN Rating Insulators sets shall need to be type tested separately? Please clarify.	a. Your understanding is not correct. If the type tests for insulator sets (fog type & normal type) are not available as offered combination of insulator & fitting manufacturer [except low duty & jumper suspension (in case of similar design to suspension sets) sets] with proposed design, the tests shall be performed in laboratories mentioned in Clause 9.6.2 (i) during execution stage in presence of Employer's Engineers. Cost of such test and witness shall deem to be included in the Contract Price. b. Please follow the bidding document (**Section 9: Insulators, Clause 9.6.2 Type Tests**).	N
65.	**Section 9: Insulators, Appendix 5, 132 kV Line (Overland Portion)**	Your understanding is correct.	N

	Here the Type of Insulator Shed profile is not specified while for all other Insulators "FOG" Type is specifically mentioned. If No Shed Profile, then standard insulators shall be considered for 132 kV Line overland portion. Please confirm if the understanding is correct.		
66.	**Section - 7, Clause - 7.1.4.6** *The locations of both river crossing tower, anchor tower and any other tower near the river, shall be finalized based on hydro and geo-morphological study of the selected rivers (See APPENDIX 7.A9). Regardless of shifting prediction in the morphological study, foundations of river crossing and anchor towers shall be designed as river crossing foundation. If normal towers are used for river crossing (instead of river crossing tower) then regardless of shifting prediction in the morphological study, first tower on both bank of the river shall be designed with river crossing foundation. River crossing foundations shall be treated as foundations on midstream of river* We understand that, foundation of all river crossing towers as per Appendix 7 A9 have to be designed as mid stream towers, irrespective of shifting prediction by Morphological study and distance of tower from bank. Please confirm.	Any tower [either river crossing Type (2DR, 2DAX0 or normal type tower (2DT6, 2D1, 4D1, 1D1, 1DT6)] that will be used for crossing a river should be designed considering some parameter such as scour depth, river velocity, discharge etc. This type of foundation will be denoted as river crossing foundation and to be designed as foundation on the midstream of the river. If a river crossing type tower (2DAX, 2DR) will be used in forest area to obtain required clearance, their foundation will be treated as normal foundation, i.e., no need to consider scour depth, water velocity etc.	N
67.	**Section - 8, Annexure 8-1** *400kV Overland (Only 4D1+30m & 4D1+40m may be used for 230 kV River Crossing)* We understand, it's not mandatory requirement to cross rivers using 400kV Towers, please confirm if our understanding is correct.	It will be decided during the execution stage based on site condition for the River Crossing & Elephant Corridor portion. However, the design of this aspect is the responsibility of the contractor to meet the technical specification.	N
68.	**Section 18, Clause 18.3** *Route clearance undertaken by the Contractor on the Employer's instruction shall be paid for at Schedule B unit prices and shall be measured to the nearest metre along the centre line of the route. The prices of route clearance shall include payment of compensation for crops, trees, houses, etc. and all kinds of damage compensation.* There is no item in price schedule, against which this item is to be quoted, request you to please include in BoQ also.	These prices are included in item no 7.12 and 7.13 of Price schedules (1.4, 2.4, 3.4 and 4.4).	N
69.	**Annex-7-A2(4), Overload Factor** As per price schedule,foundation design is to be done for River crossing Tower. But as per this clause the OLF given is written as not used. Kindly clarify if anyother OLF is to be	In Annex-7-A2 (4), The text 'Not Used' will be omitted here.	N

	consider for this.		
70.	**Annex-7-A2(5), Overload Factor** As per Price schedule foundation design to be done for 2D1 Tower. Kindly clarify the Overload factor to be considered for this as it is not mentioned in the Table	For 2D1 tower foundation design use Overload factor 1.35.	N
71.	**Annex-7-A2(6), Overload Factor** As per Price schedule foundation design to be done for 2Q1 Tower. Kindly clarify the Overload factor to be considered for this as it is not mentioned in the Table	For 2Q1 tower foundation design, Overload factor 1.60 will be used for Normal Condition, High Intensity Local Wind Condition and 1.9 for Security Condition.	N
72.	**7.1.4.5, Rigid frame Foundation** As per this clause, Rigid frame foundation is to be adopted for high water level area, So is it applicable to foundation in mid-stream as well as on bank, as River crossing foundation is to be adopted on bank also.	For high water level area raised chimney shall be adopted. No rigid frame foundation is required.	N
73.	**7.1.4.5, Rigid frame Foundation** Depending on the water height, rigid frame foundation may vary from 2m to 6m. Kindly clarify is it for connecting beam position or height of the chimney to be raised.	For high water level area raised chimney shall be adopted. No rigid frame foundation is required.	N
74.	**7.1.4.6, River Crossing Foundation** Maximum Scour depth is to be considered either as per IRC or by modelling. Kindly clarify which methods are to be considered for modelling.	Both should be considered for calculating the scour depth. Consider maximum scour depth for foundation design.	N
75.	**Appendix-7.A7, Concrete cover** As per this clause, for Bangabandhu Hightech City-Kaliakoir,the clear cover is given as 75mm but for others it is 100mm, Kindly clarify it is written by mistake or 75mm need to be considered for this line.	Concrete cover as in Appendix-7.A7 is correct. Necessary modification of foundation to be made accordingly.	N
76.	For River crossing foundation, Maximum discharge, H.F.L, G.L is not provided for Rivers.Kindly clarify the same.	These value will be determined through morphology study. Morphology study is in the bidder's scope during execution stage.	N
77.	**Clause 8, Annex 8-1, Technical parameters** Reffering to the technical specification it is clear that we have to use existing tower drawings furnished by employer. Hence pl. confirm the followings.	A. Confirmed. B. Confirmed. C. Confirmed. D. As a EPC Contractor, Contractor is	N

<table>
<tr>
<td></td>
<td>A. Tower designs are not require to be check and submitted by contractor.
B. Technical shedules are not required for Tower design related parameters since existing tower are to be supplied.
C. Tower testing is not required.
D. We understand that engineering scope is only tower spotting and design of foundations based on tower reactions provided by employer along with the specification.
E. Additionally we request you to please provide Bills of material of each Tower.</td>
<td>responsible for all design & drawing except tower design.
E. The Employer shall provide structural/erection drawings, available shop drawings and available bill of materials of all types of transmission line towers/Pole and their extensions as required to the Contractor after placement of award, in sequence, suiting the project requirement upon written request of the Contractor. However, if the Contractor needs to prepare any additional structural and shop drawings or make any correction of existing drawings, these have to be prepared by the Contractor without any additional cost. In such case, the Contractor has to submit relevant documents/drawings for approval of the Employer.</td>
<td></td>
</tr>
<tr>
<td>78.</td>
<td>Volume- II, Section- 18 Clause 18.1.12.3

Please refer Clause No. 18.1.12.3, Volume 2 of bid documents regarding PLS-CADD, TOWER & POLE License as given below:-
18.1.12.3 PLS CADD, TOWER, POLE License

PGCB's existing six Licenses of PLS CADD, PLS TOWER and PLS POLE set shall be updated for three years (multi year renewal) under this contract. All available existing features of licenses should be extended. The price of updating of PLS CADD, Tower and Pole License shall be deemed to be included in the Contract Price.

We have following observations and clarifications:-
(a) Request you to please provide Serial No. of Keys/ License, currently in use at PGCB for License Upgradation of PLS GADD, PLS TOWER and PLS POLE respectively.
(b) As per our understanding, bidder needs to arrange renewal / upgradation of existing 6 Nos. of Licenses i.e. for (PLS CADD -2 License, PLS TOWER -2 License & PLS POLE -2 License) for three (3) year. Kindly confirm.
(c) As mentioned in the above Clause, 'All available feature should be extended'. Kindly request you to please specify in detail all the available features that are used by PGCB which needs to be extended for three (3) year.</td>
<td>a. License group: Power Grid Company of Bangladesh – Group 1

<table>
<tr><th>Sl. No.</th><th>Company Name</th><th>User Full Name</th><th>Email</th><th>Phone Number</th></tr>
<tr><td>1</td><td>Power Grid Company of Bangladesh</td><td>Md. Emdadul Hoque</td><td>emdad.buet@gmail.com</td><td>+8801816335345</td></tr>
<tr><td>2</td><td>Power Grid Company of Bangladesh</td><td>Md. Shoeb Hasan</td><td>sde1.tld@pgcb.gov.bd</td><td>+8801713850594</td></tr>
<tr><td>3</td><td>Power Grid Company of Bangladesh</td><td>Muhammad Mahmudul Islam</td><td>xen2.tld@pgcb.gov.bd</td><td>+8801713850593</td></tr>
</table>
License group: Power Grid Company of Bangladesh – Group 2</td>
<td>N</td>
</tr>
</table>

		<table><tr><th>Sl. No.</th><th>Company Name</th><th>User Full Name</th><th>Email</th><th>Phone Number</th></tr><tr><td>1</td><td>Power Grid Company of Bangladesh</td><td>S. M. Rakibul Hassan</td><td>sde4.tld@pgcb.gov.bd</td><td>+8801713850592</td></tr><tr><td>2</td><td>Power Grid Company of Bangladesh</td><td>S. M. Rakibul Hassan</td><td>sde4.tld@pgcb.gov.bd</td><td>+8801713850592</td></tr></table> License group: Power Grid Company of Bangladesh – Group 3 <table><tr><th>Sl. No.</th><th>Company Name</th><th>User Full Name</th><th>Email</th><th>Phone Number</th></tr><tr><td>1</td><td>Power Grid Company of Bangladesh</td><td>Md. Mahfuzur Rahman</td><td>sde7.tld@pgcb.gov.bd</td><td>+8801713850564</td></tr></table> b. Your understanding is not correct. PGCB's existing six Licenses i.e. (PLS CADD - 6 Licenses, PLS TOWER - 6 Licenses & PLS POLE (+LW + Mast)-6 Licenses) shall be updated for three years (multi year renewal) under this contract. c. Please collect detail of all the available features of PLS CADD, PLS TOWER, PLS POLE (+LW + Mast) by using the details given aforesaid at (a) from the power line system.	
79.	**Foundation Drawings** Please provide Foundation Drawing for 400 kV D/C 4D1-Q Tower.	It is in the bidder's scope. The bidder (prospective contractor) has to generate design & drawings during the execution stage.	N
80.	**Foundation Drawings** Please provide Foundation Drawing for 132 kV Pole Type 1DLP, 1D1P, 1D25P, 1DT6P,	It is in the bidder's scope. The bidder (prospective contractor) has to generate design & drawings during the execution stage.	N

	1D9P.		
81.	**Section - 5, Anexxure 5.2 & 5.3** Access roads/routes shall be identified by the Contractor themselves as and where necessary, and shall be constructed by them at their own expense and necessary compensations for damages thereof shall also be paid by the Contractor. The Employer's representative shall assist the Contractor in his negotiations with the landowners about such compensation etc. **Please confirm Following:** 1. We understand contractor is responsible for monetary compensation toward crop and tree cutting only, however if a land is to be acquired for tower placement, either location will be shifted or land will be acquired by PGCB. In no scenario, compensation for land acquisition will be in scope of contractor. Please confirm. 2. We understand, PGCB has predefined total maximum compensation amount in respective price schedule and payment to affected parties will be made as per actuals. Please Confirm.	1. Your understanding is correct. 2. Your understanding is correct.	N
82.	**Schedule 1.4,Schedule 2.4,Schedule 3.4,Schedule 4.4** The following foundation drawings are not provided along with the specification a) 4D1 b) All raised chimney for 132KV DC Towers c) All raised chimney for 132KV FC Towers d) All raised chimney for 230KV DC Towers(High wind zone) e) All raised chimney for 230KV FC Towers f) 132KV Pole structure So Kindly provide the same. Kindly confirm the followings in case bidder has to furnish all the foundation design for the above said Towers a) The category of soil & chimney height to be maintained for 132 KV poles. Also provide the baseplate arrangement drawings b) What will be the minimum amount of concrete volume and reinforcement to be considered for design.	4D1, All raised chimney for 132KV DC Towers, All raised chimney for 132KV FC Towers, All raised chimney for 230KV DC Towers (High wind zone), All raised chimney for 230KV FC Towers and 132KV Pole structure foundations are in the bidder's scope. Foundation reactions are given in the bid document. Bidder's are advised to assess required foundation for this towers. Amount of concrete and rebar shall be calculated by the bidder.	N
83.	**Price Schedule, Schedule 1.4** As per this clause Non river crossing foundations need to be provided for River crossing Towers such as 2DR, 2DR20,2DAX. Kindly specify the soil category as well as chimney	Soil category and chimney height to be determined at the execution stage.	N

<table>
<tr><td></td><td>height to be maintained at those locations.</td><td></td><td></td></tr>
<tr><td>84.</td><td><u>Price Schedule, Schedule 1.4</u>

As per this clause the foundation need to be designed for 4D1 Tower and foundation load is provided for 30/40m extension. Kindly confirm 4D1 with 30/40 extension is going to be used whereever 4D1 Tower is required.</td><td>Confirmed.</td><td>N</td></tr>
<tr><td>85.</td><td><u>Price Schedule, Schedule 2.4</u>

Kindly confirm the Towers given in this clause are 230KV high wind zone or medium wind zone. Also provide the related documents such as structural drawing stub drawing and foundation drawing only if those towers belong to medium wind zone</td><td>Please follow the Volume 2 of 3 of the bid document.</td><td>N</td></tr>
<tr><td>86.</td><td><u>Volume- II,Section-7, Cl. 7.1.4.6, Pg 7-5 & Volume- III, Price Schedule- A 1.4 Item- 2.10, 2.11, 2.12, 2.13</u>

As per technical specifications, vol-2, cl. 7.1.4.6, page 7-5, River crossing foundations, design parameters given for pile design for river crossing locations.
Whereas, as per price schedule, vol-3, schedule no. A 1.4, page 4B-3, item no. 2.10, 2.11, 2.12, 2.13. bidder has to design pile foundation of river crossing towers 2DR & 2DAX considering River Crossing Foundation and Non-River Crossing Foundation. Please refer the below screen shot for the same.

<table>
<tr><td>2.10</td><td>Tower type 2DR (River Crossing Foundation)</td><td></td><td></td></tr>
<tr><td>2.10.1</td><td>Pile Foundation for Tower type 2DR Standard</td><td>per tower</td><td>1</td></tr>
<tr><td>2.10.2</td><td>Pile Foundation for Tower type 2DR M20</td><td>per tower</td><td>1</td></tr>
<tr><td>2.11</td><td>Tower type 2DR (Non-River Crossing Foundation)</td><td></td><td></td></tr>
<tr><td>2.11.1</td><td>Pile Foundation for Tower type 2DR Standard</td><td>per tower</td><td>1</td></tr>
<tr><td>2.12</td><td>Tower type 2DAX (River Crossing Foundation)</td><td></td><td></td></tr>
<tr><td>2.12.1</td><td>Pile Foundation for Tower type 2DAX Standard</td><td>per tower</td><td>2</td></tr>
<tr><td>2.13</td><td>Tower type 2DAX (Non-River Crossing Foundation)</td><td></td><td></td></tr>
<tr><td>2.13.1</td><td>Pile Foundation for Tower type 2DAX Standard</td><td>per tower</td><td>1</td></tr>
</table>
Kindly provide the different parameters in design for River crossing foundation & Non-River crossing foundation for 2DR & 2DAX tower respectively.</td><td>For river crossing foundation design, standard practice (scour depth, highest flood level, water velocity, maximum discharge and any other parameters deem to be included) shall be considered. For non-river crossing foundation design, consider the standard practice and follow the bidding document.</td><td>N</td></tr>
<tr><td>87.</td><td><u>Volume- II, Section-7, Cl. 7.4.3, Pg 7-13</u>

As per Technical specifications, Vol-2, Cl. 7.4.3 Reinforcement, Pg 7-13.</td><td>1) Epoxy coated reinforcement will not be used for this project.

2) Sulphate Resisting Portland Cement (SRC)</td><td>N</td></tr>
</table>

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<tr>
<td></td>
<td>"Where specified fusion bonded epoxy coated reinforcement shall be in accordance with the requirements of BS ISO 14654 and 14656. Coated reinforcement shall be delivered to site in its cut and bent form."

Also, as per Technical specifications, Vol-2, Appendix 7.A6 Concrete Mix Parameters, Pg 7-46.

<table>
<tr><th>Grade of Concrete</th><th>Cement Type</th><th>Minimum Cement Content kg/m³</th><th>Maximum Freewater/ cement ratio</th></tr>
<tr><td>C30</td><td>Ordinary Portland Cement (OPC) CEM I</td><td>370</td><td>0.5</td></tr>
<tr><td>C30</td><td>Portland Composite Cement (PCC) CEM II</td><td>370</td><td>0.5</td></tr>
<tr><td>C30</td><td>Sulphate Resisting Portland Cement (SRC)*</td><td colspan="2">As per BSEN 197-1 CEMII/B-V</td></tr>
</table>
Notes
1. Maximum nominal aggregate size 20mm.
2. For installation of drilled shaft piled foundations using bentonite slurries, minimum cement content shall be increased to 400 kg/m3
3. Slump range for cap and chimney is 50 mm to 100 mm and for pile 150 mm to 200 mm.

* If required as per soil and ground water test report.

Kindly confirm the following points:

1. Bidder has to consider fusion bonded epoxy coated reinforcement as per the technical specifications requirement for all the lines which are traversing parallel to the sea coast. Kindly Confirm.

2. It is not mandatory to use Sulphate Resisting Portland Cement (SRC) for all the lines which are traversing parallel to the sea coast. Kindly Confirm.</td>
<td>shall not be used in this project.</td>
<td></td>
</tr>
<tr>
<td>88.</td>
<td><u>Volume- II, Section-7, Cl. 7.4.3, Pg 7-13</u>

Please refer below listed lines which are traversing parallel to the sea coast.

i) Anwara-Cox's Bazar (North) 230 kV double circuit transmission line: 109 km with 0.49 km river crossing portion (using Twin ACSR Mallard conductor),
ii) Cox's Bazar (North)-Teknaf 132 kV double circuit transmission line: 65 km (using Single ACSR Grosbeak Conductor)</td>
<td>It is in the bidder's scope. The bidder (prospective contractor) has to generate design & drawings during the execution stage.</td>
<td>N</td>
</tr>
</table>

	iii) 132 kV Line-In-Line-Out (LILO) at Cox's Bazar (North) substation from Dohazari - Cox's Bazar 132 kV double circuit transmission line: 1.55 km (using Single ACSR Grosbeak equivalent ACCC conductor) on turnkey basis. We request you to provide foundation drawings for 230 kV tower type 2D9, 2DR & 2DAX along with raised chimney foundation drawings for all types of towers.		
89.	**Volumes - 2 Section - 7, Clause 7.1.4.6 - River Crossing Foundations** The locations of both river crossing tower, anchor tower and any other tower near the river, shall be finalized based on hydro and geo-morphological study of the selected rivers (See APPENDIX 7.A9). Regardless of shifting prediction in the morphological study, foundations of river crossing and anchor towers shall be designed as river crossing foundation. If normal towers are used for river crossing (instead of river crossing tower) then regardless of shifting prediction in the morphological study, first tower on both bank of the river shall be designed with river crossing foundation. River crossing foundations shall be treated as foundations on midstream of river. If any other type of tower/towers is/are required to be spotted near/parallel to a river and from the shifting prediction of morphological study if it is found that these towers will go into the river in future, then foundation of those tower/towers shall be river crossing foundation. We understand that, irrespective of river width and tower distance from its bank, Foundation of both tower i.e. each side of bank is to be designed as mid stream tower river crossing tower, please confirm if our undersatnding is correct.	Your understanding is correct.	N
90.	**Volume - 2, Appnedix 7.A9 Appendix 7A9 River Crossing Foundations** Kindly provide HFL, Scour Depth, Water Velocity and Maximum Discharge necessary for designing of river crossing foundation.	These values will be determined through morphology study. Morphology study is in the bidder's scope during execution stage.	N
91.	**Volumes - 2 400kV Transmission Line Crossing** We understand a 400kV transmission line is to be crossed by proposed 230kV Transmission line, however there is no line item of under pass gantry, kindly include it in price schedule.	Please see the Addendum-1 (Sl. No. 17, Attachment-3, Sl. No. 18, Attachment-4, Sl. No. 20, Attachment-5)	Y
92.	**Volume- II, Section-8, Cl. 8.5.1.2** As per the Clause 8.5.1.2: The minimum average coaling thickness shall be as follows:	Please follow the bidding document.	N

	<table><tr><th></th><th>Thickness µm</th><th>(Mass g/m²)</th></tr><tr><td>Steel articles which are not centrifuged, 6 mm thick and over</td><td>85</td><td>(610)</td></tr><tr><td>Steel articles which are not centrifuged, under 6 mm but not less than 3 mm</td><td>70</td><td>(505)</td></tr><tr><td>Grey and malleable iron castings</td><td>85</td><td>(610)</td></tr><tr><td>Threaded works and other articles which are centrifuged</td><td>50</td><td>(360)</td></tr></table> Though Transmission lines are traversing parallel to coastal areas, we understand that, there is no requirement for higher galvanizing for tower parts. Kindly Confirm.		
93.	**Volume-II, Annex 1-1: Scope and Extent of Definite Works, Sl No-1** (i) Anwara-Cox's Bazar (North) 230 kV double circuit transmission line: Approx. 1km at each end of the line (total approx. 2km) shall be built on four circuit towers with two circuits strung to facilitate future line entry in the respective substations to minimize the right of way. (ii) Bangabandhu Hitech City-Kaliakoir 230 kV double circuit transmission line: Approx. 1km at each end of the line (total approx. 2km) shall be built on four circuit towers with two circuits strung to facilitate future line entry in the respective substations to minimize the right of way. We understand that Approx. 1km at each end of the line (total approx. 2km) shall be built on four circuit towers with two circuits strung to facilitate future line entry in the respective substations to minimize the right of way. In view of the above, Terminal Tower "2QT6" type & Auxiliary X-arm are to be used to maintain clearance from TT to Gantry. But as per Price Schedule- 1.1, Item no- 1.14 & Price Schedule-2.1, Item no-1.10, "2DT6" is considered with unit as "per set of three". Please clarify, for the above items, bidder has to consider "2QT6" tower with unit as "per set of six" OR provide separate line item for "2QT6" with unit as "per set of six".	Please see the Addendum-1 (Sl. No. 20, Attachment-5).	Y
94.	**Approved Vendor List** We request you to provide approved vendor list for Bought out Items.	No such list is provided. Please follow the bid documents.	N
95.	**Clause 22.2, 132kV DC Towers** For 132 kv DC Towers, As per page N0-22-4, the stub drawings are to be referred from Project C870. but stub length provided in the foundation drawings for 132kv d/c Towers are not matching with the stub length provided in the C870 stub drawing. Also note there are 2 sets of drawing provided in the drawing folder. Kindly specify the stub drawing to be	Please follow the drawing containing "The top of the chimney of tower foundation shall be at least 450 mm above nominal ground level and In case of pile foundation pile cap shall be at least 450 mm below nominal ground level".	N

	considered in each Tower.		
96.	**Clause 22.2, 132kV FC Towers** For 132 kv FC Towers, As per page N0-22-6, the stub drawings are to be referred from DRG No-S-2297,S-2308,S-2489. but stub length provided in the foundation drawings for 132kv F/c Towers are not matching with the stub length provided in the stub drawing. Also note there are 2 sets of drawing provided in the drawing folder. Kindly specify the stub drawing to be considered in each Tower.	Please follow the drawing containing "The top of the chimney of tower foundation shall be at least 450 mm above nominal ground level and In case of pile foundation pile cap shall be at least 450 mm below nominal ground level".	N
97.	**Clause 22.2, 230KV DC TOWERS-HIGH WIND ZONE** For 230kv DC Towers, As per page N0-22-8, the stub drawings are to be referred from A196 PROJECT. Here for Tower type 2DL and 2D25,Though the stub lengths are same as provided in the foundation drawing but there is a mismatch between the bifurcation of stub length between stub end to pile cap top, Pile cap top to G.L. Kindly confirm which depth need to be considered for these Towers.	Please follow the drawing containing "The top of the chimney of tower foundation shall be at least 450 mm above nominal ground level and In case of pile foundation pile cap shall be at least 450 mm below nominal ground level".	N
98.	**Clause 22.2, 230kV FC Towers** For 230 kv FC Towers, As per page N0-22-16, the stub drawings are to be referred from HGPT Project. but stub length provided in the foundation drawings for 230 kv F/c Towers are not matching with the stub length provided in the stub drawing. Also note there are 2 sets of drawing provided in the drawing folder. Kindly specify the stub drawing to be considered in each Tower.	Please follow the drawing containing "The top of the chimney of tower foundation shall be at least 450 mm above nominal ground level and In case of pile foundation pile cap shall be at least 450 mm below nominal ground level".	N
99.	**Scope of Works Technical Specifications Drawings forming Part of the Specification.** **Clause: 18.3 Route Clearance & Access** *Route clearance undertaken by the Contractor on the Employer's instruction shall be paid for at Schedule B unit prices and shall be measured to the nearest metre along the centre line of the route. The prices of route clearance shall include payment of compensation for crops, trees, houses, etc. and all kinds of damage compensation.* We understand land compensation for complete transmission line route and access road will be paid by client. Only crop and tree compensation will be paid by contractor. Kindly confirm.	Access road shall be constructed by contractor with their own cost and for others kindly follow the bid documents.	N

100	**Tender document Volume 2 of 3. Scope of Works Technical Specifications Drawings Clause 8 : Towers** *8.1.4 In case the proto type load tested or earlier designed towers and poles are used then the Tenderers are requested to inspect the available drawings in the Design Dept. of PGCB to satisfy them regarding the extent of available drawings.* We understand that showing of tender purchase receipt by bidder is sufficient to collect all the relevant tower drawings from design Dept. of PGCB. Kindly confirm.	The Employer already provided the soft copy of structural/erection drawings, available shop drawings and available bill of materials of all types of transmission line towers/Pole and their extensions as required. However, if the Contractor needs to prepare any additional structural and shop drawings or make any correction of existing drawings, these have to be prepared by the Contractor without any additional cost. In such case, the Contractor has to submit relevant documents/drawings for approval of the Employer after placement of award.	N
101	**Tender document Volume 2 of 3, Section 8 Towers, Section 8A Poles, Annex 8-13, Page 8-49** Annex 8- 13 : Foundation Reaction Forces: are available for 132kV Double Circuit tower, 132kV Four Circuit Tower, 230kV Double Circuit Tower, 230kV Four Circuit Tower, 400kV Circuit Tower. But the Foundation Reaction Forces for 132kv Double Circuit Monopole are not available in Specification, it is required for design of Monopole Foundation. Please provide the same.	Already provided in the website. (File name - 132kV Ishurdi-Roopur Pole Reaction)	
	Volume- 3 of 3		
102	**Clause 7.1.4.6 & Appendix 7.A10 Volume 3 of 3** *Maximum scour depth shall be calculated: 1) mathematically, following IRC: 78-2014 or updated guideline at each finally proposed tower location or ii) by modelling, following standards and/or code & practices. Maximum of these two values shall be used as design scour depth (See APPENDIX 7.A10).* We propose to use of Lacey's formula for calculation of scour depth. Mean Scour Depth = $0.473*(Q/ksf)^{1/3}$ Where Q is maximum discharge in cumecs Ksf = Silt factor And Maximum Scour depth = 2*mean scour depth.	Please follow the bidding document.	N

103	**Volume 3 of 3: Schedule 1.4 Clause 2; Schedule 2.4 Clause 2; Schedule 3.4 Clause 2; Schedule 4.4 Clause 2;** The mismatch between tower quantities and their pile foundation quantities is observed for following towers TT 2D1 (Tower Nos 31, foundation Nos. 29), TT 2QT6 (Tower Nos. 5, Foundation Nos 6); TT 1DT6 (Tower nos 50; Foundation Nos 49); TT 1Q30 (Tower Nos 5; Foundation Nos 4); TT 1QT6(Tower Nos. 6; Foundation Nos 4). Nos 4). Please confirm the quantities.	Please see the Addendum-1 (Sl. No. 20, Attachment-5). .	Y
104	**Volume 3 of 3: Schedule 1.4 Clause 2;** As per Price schedule, 3m RC foundations are towers TT4D1, TT2DL, TT2D1, TT2D25, TT2DT6 and TT2D9 are provided with 3m RC. However, we have not received stub drawings for 3m Raised Chimney. Please provide the same.	The bidder (prospective contractor) has to generate stub drawings for 3 m RC during the execution stage.	N
105	**Price Schedules** **Schedule No 1 for all Lines** The towers to be supplied in these schedules are on full structure basis with body extension. However, the length of Stub is decided only after clarity on Raised Chimney requirement. Since, any raised Chimney beyond 2 Meter has reasonable weight impact on stub, hence it is proposed that in case the Stub is needed to be supplied beyond 2 Meter raised chimney, the payment for differential weight of stub compared to 2 meter raised chimney stub shall be made additionally on per MT basis with rates applicable to Line Item Galvanized Tower Steel "Fabricated" parts. Please clarify your position in this regard.	Your proposal is not accepted. Please follow the price schedules..	N
106	**Schedule B Bid Prices and Schedule** **Price Schedule No 4 item no 7.12 & 7.13 ROW Compensation** Here the description of the items is "Payment for Compensation (For resettlement of affected people, dwelling/commercial structures, trees, crops etc. on the Right of Way) and Payment of compensation using private land to construct transmission line towers (based on area of tower footprint)" We have the following clarification in this regard A. We understand that the land acquisition compensation shall be made "based on the tower footing area as mentioned above. Pls Confirm. B. For Crop or any other temporary compensation, as per practical experience the	It shall be as per mentioned in the price schedule item no. 7.12 & 7.13.	N

	compensation is evaluated only for tower footing are while the operating area for foundation construction/Tower Erection is significantly large and contractor bears all the compensation for such area. We request that for paying Crop compensation etc, the working area must be considered in addition to the tower footing area. Please clarify. C. As per our practical experience there is huge cost of ROW Compensation comes in Associated Access Roads to reach to tower locations which is not compensated by PGCB. It is requested that all such cost should also be reimbursed from ROW Compensation provision in the bid. Please clarify your position in this regard.		
107	**Price Schedule No. A 1.4, Item No. 2** *Foundations for towers/Poles including all setting out, Concrete, Reinforcement, Excavation, Pumping, Stub-Setting, Geotechnical Investigation (Level 2/Level 4), Shuttering, Leveling, Timbering, supply & Installation of foundation steelwork, Earthing Materials,Backfilling, approved Protective Coating & site clearing etc.* In description of this Line item, geotechnical Investigation (Level 2/Level 4) is also included, however separate item for geotechnical investigation is given under item no. 1.2. Please clarify.	Geotechnical Investigation (Level 2/Level 4) is included in the mentioned item (Item No. 2). If additional soil test is required during execution stage, use item 1.2 (geotechnical investigations) in this regard.	N
108	**Price Schedule No. 3.1, Item No. 6.1.2** *Spacer Damper for Phase conductor* We understand, 132kV Line is single conductor per phase, hence spacer damper should not required, please confirm.	Please see the Addendum-1 (Sl. No. 20, Attachment-5)..	Y
109	**Price Schedule Item No. 1.1 & Item No. 1.12 & 1.13** *Tower Type 4D1, 2DR & 2DAX* In Section - 8, Annexure 8-1, PGCB has asked to use 6 nos of 4D1 towers for river crossing and then again have mentioned another 6 nos of River & anchor towers. We understand, bidder is to decide whether river crossing tower, 4D1 tower or 230kV Towers are to be used for river crossing. Please clarify.	It will be decided during the execution stage based on site condition for the River Crossing & Elephant Corridor portion.	N
110	**Price Schedule** The structural drawings of 2DL+15m is unavailable. Hence request you to please provide structural drawings so that we can workout the tower weight.	Please see the Addendum-1 (Sl. No. 20, Attachment-5)..	Y

111	**Price Schedule** Please confirm, Tower types mentioned in schedule no. 1.1 are same as tower types mentioned in schedule no. 2.1. Hence we have to consider same structural drawings for both Schedules.	Confirmed.	N
112	**Price Schedule** Please confirm, Tower types mentioned in schedule no. 3.1 are same as tower types mentioned in schedule no. 4.1. Hence we have to consider same structural drawings for both Schedule 4.1 & 3.1.	Confirmed.	N
113	**Volume- III, Price schedule No- 1.4, 2.4, 3.4 & 4.4, Item 7.12 & 7.13** **Payments** -Payment of compensation for using private land to construct transmission line towers [based on area of tower footprint] -Payment of compensation for lines (for affected trees, crops etc. on the Right of Way and at the substation ends) We understand the following points: i) Provided Budget in Price schedules is tentative only. In case the budget exceeded during execution stage, the client is responsible for making arrangements and paying the contractor on an actual basis. Kindly confirm. ii) Reimbursement towards ROW payments will be made monthly within 45 days after submission of receipt / invoice towards the same. Kindly Confirm iii) The 10% advance payment of the contract does not include the ROW Price. Kindly Confirm.	i) These costs are fixed ceiling but the payment shall be at actual upon submission of relevant documents. ii) Your understanding is correct. iii) Your understanding is not correct. ROW Prices will be included in the contract price and therefore, 10% advance payment of the contract includes the ROW Price.	N
114	**Volume- III, Price schedule No- 1.1 Item 5.1.3 & 5.2.3** **Earthwire** As per Price Schedule No. 1.1, Item 5.1.3 & 5.2.3, Bidder need to supply and quote for Vibration Damper for earthwire. However, in the same Schedule, Quantity and Type of the required Earthwire is not given. We understand that, bidders are only required to supply & quote for the Vibration damper for Earthwire and there are no requirement for any type of Earthwire in the transmission line. Kindly confirm. We would also like to request you to kindly provide the size of the Earthwire for which we need to supply Vibration Dampers.	Please see the Addendum-1 (Sl. No. 20, Attachment-5).	Y

115	**Volume- III, Price schedule No- 1.4, 2.4, 3.4 & 4.4, Item 1.2.2** **Soil Resistivity Tests** In the Price Schedule 1.4, 2.4, 3.4 & 4.4, the Unit of Item No. 1.2.2 is written as "unit". As per our understanding, Unit of the said item should be in "Nos." We request you to kindly confirm & do the required correction.	Please see the Addendum-1 (Sl. No. 20, Attachment-5).	Y
116	**Volume- III, Price schedule No- 4.1 & 4.2, Item 4.1 Price schedule No- 4.4, Item 5.1.1** **ACSR Grosbeak equivalent ACCC conductor** As per Price Schedule No. 4.1, 4.2 & 4.4, name of the Transmission line is *"132 kV Line-In-Line-Out (LILO) at Cox's Bazar (North) substation from Dohazari - Cox's Bazar 132 kV double circuit transmission line: 1.55 km (using Single ACSR Grosbeak equivalent ACCC conductor)."* As per Item 4.1: ACSR Grosbeak equivalent ACCC" (four circuit line, all circuits erected, one conductors per phase). As per Item 5.1.1: Conductor "ACSR Grosbeak equivalent ACCC" Phase Conductor (double circuit line, both circuits erected, one conductors per phase) including: As the name of the Line indicates that it is an LILO 132 kV ***Double circuit Transmission Line.*** As per the Item 4.1 description of Schedule 4.1 & 4.2, we need to supply ACCC Conductor as per ***"Four Circuit Line with All Circuit Erected."*** However, as per Item 5.1.1 description of Schedule 4.4, we need to execute stringing works of ACCC Conductor as per ***"Double Circuit Line with Both Circuits Erected".*** Kindly confirm the following points: i) Whether we need to supply the ACCC Conductor as per **Four circuit** line with all circuit erected or as per **Double circuit** line with both circuits erected. ii) We need to execute the Stringing works as per Double circuit line with both circuits erected only.	Please see the Addendum-1 (Sl. No. 20, Attachment-5)..	Y
117	**Volume- III, Price schedule No- 1.1 & 1.2, Item 1.1** In the provided Bid Documents, Structural drawings and foundation loads are provided for 4D1-Q type of 400kV D/C Tower. However in price schedule no. 1.1 & 1.2, item 1.1 - It is mentioned to supply tower type as 4D1. We understand that both type of towers are same. Kindly confirm	Please see the Addendum-1 (Sl. No. 20, Attachment-5)..	Y
118	**Attachment-Price Schedule** According to table 1 of Annex 8-1 in Volume 2, 4D1+30m & 4D1+40m may be used for 230	It will be decided during the execution stage based on site condition for the River Crossing & Elephant Corridor portion.	N

<table>
<tr><td></td><td>kV River Crossing. According to schedule No. 1.1 of Volume 3, there are six 400kV towers, but there are slso six 230kV towers at 'River Crossing Portion' . Please verify where the 400kV towers are used.</td><td></td><td></td></tr>
<tr><td>119</td><td><u>Price Schedule No. 1.4, 2.4, 3.4 & 4.4 - Item No. 8</u>

Total Tax and VAT deductable at source(TDS & VDS) under the schedule 4B(to be quoted in the currency similar as above)4.
However :
SCC Clause 14.2 a, Paragraph 2 :
Applicable VAT at the time of making payment to the Contractor as VDS (VAT deduction at source) for any or all of the items under the price schedule of this contract shall bear by the Employer and deposit the same to the govt. exchequer as per prevailing law of the Employer's Country. The Bidder shall quote bid-prices of all items of the price schedules under this contract exclusive of VDS.

We understand bidders are to quote their prices for Services exclusive of VDS and Inclusive of TDS, please confirm if our understanding is correct.</td><td>Your understanding is correct.</td><td>N</td></tr>
<tr><td>120</td><td><u>Price Schedule No. 1.4, 2.4, 3.4 & 4.4 - Item No. 7.11 to 7.13</u>

PGCB has predefined numbers against all of these items, we understand that if actual cost is more than that of the predefined numbers, then PGCB will not reimburse the cost incurred by contractors, Please confirm if our understanding is correct.</td><td>Your understanding is correct.</td><td>N</td></tr>
<tr><td>121</td><td><u>Volume- III,Price schedule No- 3.1 & 4.1. & Volume- II, Section-8, Annex 8-1, Cl. 2.3, Pg 8-31</u>

As per the price schedule 3.1 & 4.1, vol-3, bidder has to supply 132 kV D/C & 132 kV M/C towers.
However, as per the technical specifications, vol-2, Section-8, Annex 8-1, cl. 2.3, page 8-31, details are given considering medium wind zone and high wind zone. (Refer below screen shot from specifications).
2.3 132kV Towers
<table><tr><th></th><th>132kV Towers (Medium Wind Zone)</th><th>132kV Towers (High Wind Zone)</th></tr><tr><td>3s gust wind speed (Failure Limit)</td><td>66.5 m/s</td><td>80 m/s</td></tr><tr><td>Wind load factor</td><td>1.15</td><td>1.15</td></tr><tr><td>Exposure category</td><td>C</td><td>C</td></tr></table>
We would like to request you to kindly provide the design parameters separately for 132 kV D/C & 132 kV M/C towers.</td><td>132 kV D/C & 132 kV M/C Tower designed for medium wind zone (mean wind speed). Span & design criteria mentioned in Annex 8-5(1) Overland Portion (132 kV) & Annex 8-1: Design Parameters and Conductor System Loading (2. Design Parameters (2.3 132kV Towers)) will be adjusted considering the wind zone during the execution time as per actual site condition.

Since, the contractor is not responsible for tower design hence, design parameters will not be provided to the bidder.</td><td>N</td></tr>
</table>

<table>
<tr><td>122</td><td><u>Volume- III, Price schedule No- 1.4, 2.4, 3.4 & 4.4, Item 7.11</u>

In the Price Schedule 1.4 & 3.4, Item 7.11, Unit Price and Total Price are provided for "Costs and Expenses related to test witness3(Provisional Sum)" under Foreign Currency portion. However, for Price Schedule 2.4 & 4.4, Item 7.11, Unit Price and Total Price for the same are not provided.

As these costs are fixed ceiling and needs to be included in the total price.
We request you to provided the Unit Price and Total Price for item 7.11 under Schedule 2.4 & 4.4.</td><td>Kindly follow the bid documents.</td><td>N</td></tr>
<tr><td>123</td><td><u>Volume- III, Price schedule No- 1.1 & 1.2 Item 6.1 Price schedule No-2.1, 2.2, 3.1 & 3.2 Item 7.1 & 7.2 Price schedule No- 4.1 & 4.2 Item 8.5 & 8.6 Price schedule No- 1.4, 2.4, 3.4 & 4.4, Item 7.4</u>

Please find below screenshot of item Description for Tower painting from Price Schedule - Supply from Abroad & Supply from within Employer's country:
<table><tr><td>6.1</td><td>Painting of tower having height more than 60 meter in accordance with the requirements of the Technical Specification</td><td></td><td>per tower</td><td>17</td></tr><tr><td>6.1</td><td>Painting of tower (Reflecting Paint) upto 3 meter in submerge area in accordance with the requirements of the Technical Specification</td><td></td><td>per tower</td><td>5</td></tr></table>Please also find below screenshot of item Description for Tower painting from Price Schedule - Installation and Other Services:
<table><tr><td>7.4</td><td>Painting of towers including bottom part of tower</td><td>lump sum</td><td>1</td></tr></table>As per the supply price schedules, unit of painting of tower is shown as "per tower" basis but in installation and service price schedules, unit is mentioned as "Lump sum" instead of "per tower". We request you to please amend the same.</td><td>Please see the Addendum-1 (<u>Sl. No. 20, Attachment-5</u>)...</td><td>Y</td></tr>
<tr><td>124</td><td><u>Volume- III Price Schedule No- 1.4, 2.4, 3.4 & 4.4 Item 2</u>

As per Item Description: contractor has to include the cost for “approved Protective Coating".

We understand that protective coating means that Epoxy Coal Tar pain needs to be done 3 Mtrs from GL. This does not include Reflective paint. Kindly confirm our understanding is correct.</td><td>Your understanding is not correct. Protective coating upto 3 mtrs from GL shall be Epoxy coal tar paint, unless reflective paint is mentioned for any tower.</td><td>N</td></tr>
<tr><td>125</td><td><u>Volume- III Price Schedule No- 1.4, 2.4, 3.4 & 4.4 Item 1.2 & Item 2</u>

As per Item 1.2 Description: contractor has to perform "Geotechnical Investigations incl.</td><td>Geotechnical Investigation (Level 2/Level 4) is</td><td>N</td></tr>
</table>

	taking samples,logging and lab testing". Howerver, as per Item 2 Description: contractor has to again include the cost for "Geotechnical Investigation (Level 2/Level 4)" As per the mentioned price schedule items description, we found that Geo technical investigation item is repeated . Bidder's has to qoute their prices for Geo technical investigations under item 1.2 only. Please confirm that our understanding is correct.	included in the mentioned item (Item No. 2). If additional soil test is required during execution stage, use item 1.2 (geotechnical investigations) in this regard.	
126	**Volume - 3 - Price Schedule - Schedule 1.4, 2.4, 3.4 & 4.4 - Item No. 7.11, 7.12. & 7.13** 7.11 Costs and Expenses related to test witness[3](Provisional Sum) — lump sum — 1 7.12 Payment of compensation for using private land to construct transmission line towers [based on area of tower footprint] — lump sum — 1 7.13 Payment of compensation for lines (for affected trees, crops etc on the Right of Way and at the substation ends) — lump sum — 1 From this we have following understanding please confirm. 1. No Cost provided against these item in Schedule 2.4 & 4.4, please confirm, if bidder are allowed to quote against these items and will be paid accordingly. 2. PGCB has provided estimated cost against these items in price schedule no. 1.4 & 3.4, please confirm, bidders are not supposed change these numbers in their finanacial offer. Please Confirm. 3. Since PGCB has estimated cost of approx 5.6 Million US Dollars for these items, which is a plain cost to bidders also. Please confirm PGCB will pay all of this compensation amount in 100%with in payment cycle of at least 45 Days and no retention will be deducted. Please Confirm. 4. In addition to above we understand, PGCB has fixed maximum ceiling of all these three item in price schedule 1.4 & 3.4,which will be paid at actuals and if actual cost is more than the estimated numbers then it will be contractor's responsibility, Please confirm.	1. Bidders are allowed to quote against these items. 2. Confirmed 3. Retention money will be deducted. 4. It will be the employer's responsibility.	N
127	**Price schedule No. 1.4 , 2.4 , 3.4 and 4.4 . Item No . 7.12** Payment of compensation for using private land to construct transmission line towers [based on area of tower footprint] A lump sum amount is provided in respective schedules. We understand that client will	Confirmed.	N

	compensate accordingly if the compensation amount exceeds the specified amount in price schedule. Kindly confirm.		
128	**Price schedule No. 1.4 , 2.4 , 3.4 and 4.4 . Item No . 7.13** Payment of compensation for lines (for affected trees, crops etc. on the Right of Way and at the substation ends) A lump sum amount is provided in respective schedules. We understand that client will compensate accordingly if the compensation amount exceeds the specified amount in price schedule. Kindly confirm.	Confirmed.	N
129	**Price schedule No. 2.4 and 4.4 . Item No . 7.11** Costs and Expenses related to test witness (Provisional Sum) The amount against test witness is not furnised in Schedule 2.4 and 4.4. Kindly provide the same if required.	Material will be shipped as a whole (scope) in the contract, not as per schedule. Hence, the cost & expenses related to test witness is furnished in Schedule 1.4 and 3.4.	N
130	**Price Schedule, Schedule No. 1.1 & Schedule No.1.2, Cl.1** In Schedule No.1.1, Clause 1, mentioned as "Supply of 230 kV and 400kV double circuit towers, complete with all stubs, nuts, bolts, locking nuts, washers, phase conductors and earthwire, swivels/shackles, step bolts, tower notice and identification plates, ACDs, protective coating, earthing, etc." In Schedule No.1.2, Clause 1, mentioned as Supply of 230 kV double circuit towers, complete with all stubs, nuts, bolts, locking nuts, washers, phase conductors and earthwire, swivels/shackles, step bolts, tower notice and identification plates, ACDs, protective coating, earthing, etc. Please confirm that the 400kV double circuit towers are within the scope of Schedule No.1.2 or there is a typographical error.	400kV towers are in the scope of Schedule No.1.2. Kindly see Addendum-1. Attachment-5: Price schedule.	Y
131	**Price Schedule, Schedule No.1.1 & 1.2, Cl.5; Schedule No.2.1 & 2.2, 3.1, 3.2 Cl.6; Schedule No.4.1, 4.2; Dampers** In the price schedule, the Unit of 'Dampers' is mentioned as 'per span'. For this item, if the bidder considers the different number of Dampers in each span, it will have high impact on the total bid price. Hence, we request you to change the Unit of Dampers as 'each'.	Your request is not accepted. Kindly follow the tender documents.	N