

KOSHI CORRIDOR 220 kV TRANSMISSION LINE PROJECT
TRANSMISSION DIRECTORATE
NEPAL ELECTRICITY AUTHORITY

Procurement of Plant Design, Supply, Installation, Testing & Commissioning of Koshi Corridor 220 kV Substations

Clarification No. 1

In accordance with the ITB 7.1 of the Bidding Document for the "Procurement of Plant Design, Supply, Installation, Testing & Commissioning of Koshi Corridor 220 kV Substations (ITB No: KOSHI/NEA/72/73-1)", following clarifications have been made in the bidding Document..

Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Commercial						
1)	Part-1: Bidding Procedures	Clause No. 23 of Part-1 : Deadline for Submission of Bids			With reference to the aforementioned Specification numbers, we would like to inform you that we have already deputed our personnel for site visit. During site visit, we came to know that all sites for constructing new substations are very remote and we need to know the site conditions in detail like ERT value and Drainage system. In this situation, this is very difficult for us to get proper data from sites which are must for preparing a correct & competitive techno-commercial offer. We feel the time allowed for preparation of this tender may not be sufficient for presenting a technically & commercially competitive offer. We request your good office to	Extension of time at this stage has not been envisaged. Please adhere to Clause ITB 23.1 of Part-I, Section-II: Bid Data Sheet.



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(1)	(2)	(3)	(4)	(5)	(6)	(7)
					kindly allow extension of due date of this tender submission by minimum 6 weeks from the present tender due date which is 17th August 2016.	
2)	Section - III	EVALUATION AND QUALIFICATION CRITERIA			<p>The rating of transformers required for this project is not standard one. So we request you to confirm the followings -</p> <p>a) For Qualification of Transformer: Same or higher rating (voltage or capacity) transformer at least twice of the bid quantity within last 5 years prior to bid opening date.</p>	<p>a) Confirmed. It may be noted that in Clause 2.7 of Part-I, Section-III: Evaluation Criteria 'twice the bid quantity' means' twice the bid quantity of respective equipment of same or higher rating.</p>
Electrical						
3)	Section-4 Chapter-15	TABLE-15.0.5.1	2 of 16	Average Lux Level in Control Room, Office and OPGW Communication Room is 500 Lux	We understand that average Lux level mentioned for Control room, Office & OPGW Communication room is very high It is typographical error. We request to you kindly confirm	The Average Illumination Level for Control Room, Office & OPGW Communication Room shall be 300 Lux. (Refer Sr. No. 4 of Addendum No.: 1)



Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
4)	Section-3	1.3 (d) Insulator Housing	9 of 49	Creepage Distance not less than (mm) 6125+20% for 220kV, 3625+20% for 132kV & 900+20% for 33kV.	We understand that this clause is applicable for MSL +1000 Level and above. Please confirm our understanding. the Lux level requirement in Control room, Office and OPGW Communication room.	Not acceptable. For the sake of Inter-changeability/flexibility in use of the same equipments at any substation, Table-1.3(d) Insulator Housing, Section-3, Part-II shall be applicable to all substations i.e. Basantapur, Baneshwar and Tumlingtar substations except Inaruwa.
5)	Section-6 Drawings	WAP/POWER/NEP AL/KOSHI/KC2/C19		Typical Detail of 100 kVA DG Set building.	We understand that Dimensions/ clearances/ height shown in the DG Set building layout is indicative. Same shall be as per Manufacturer's recommendation. Please confirm our understanding.	Confirmed. Dimensions are indicative only and shall be finalized during detailed engineering.
6)	Section-6 Drawings	WAP/POWER/NEP AL/KOSHI/KC2/C1		TYPICAL DETAILS OF CABLE TRENCH WITH CABLE TRAY	We understand that Cable Trench section shown is indicative; however same shall be optimized as per bidder requirement. Please confirm our understanding.	Confirmed. Dimensions are indicative only and shall be finalized during detailed engineering.
7)		Air conditioning, Ventilation, Fire Protection & Detection System			We understand that High Wall type split AC with Non CFC refrigerant to be considered only for Control Room cum Administrative building as per BPS	Non CFC refrigerant Split AC shall be provided in Control Room cum Administrative building and Switchyard Panel Room as per



Sl.No.	Section	Clause No./Dirg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
8)	Section-4-Chapter 18	Clause no 18.9.1.3. & 18.9.1.6		Ventilation system to be provided for work shop, Store, battery room, LT room etc in the control building	(bid price schedule). Please confirm our understanding. As per clause no 18.9.1.3. & 18.9.1.6. of AIR-CONDITIONING AND VENTILATION EQUIPMENT (Section-4, Chapter 18) specification of 563 Part-II (1) it is clearly mentioned that Ventilation system to be provided for work shop, Store, battery room, LT room etc in the control building but it is not reflected in the BPS (Bid price schedule) Pl. clarify. Pl. confirm Ventilation system to be considered or not in the control Room building?	Ventilation system as per specifications, to be provided for work shop, Stores, Battery room and Non-Air conditioned areas. ACDB & DCDB/LT Room shall be provided Air-Conditioning as per Clause 18.9.12 and 18.9.13 Chapter-18, Section-4, Part-II: Employer's Requirements.
9)	General			Fire Extinguisher	We understand that only Portable type Fire extinguisher as per BPS is in Bidder scope. Please confirm our understanding.	Fire Protection System to be provided as per specification.
10)	General			HVWS/MVWS Spray system	We understand that HVWS / MVWS Spray system, Hydrant system, NIFPS system is totally excluded from Bidder scope of work. Please confirm our understanding.	Fire Protection System and NIFPS to be provided as per specification. Refer Clause 6.35 of Part-II, Section VI, Section-4, Chapter-6, Power Transformers and Clause 18.8 Chapter 18, Miscellaneous items for Substations, Section-4, Part-II: Employer's Requirements.



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(1)	(2)	(3)	(4)	(5)	(6)	(7)
11)	Section-4: Chapter-18	Clause no 18.8.1.2.		FDA & Alarm system to be considered	As per clause no 18.8.1.2. of FIRE FIGHTING SYSTEM OF THE SUB-STATION of Section-4- Chapter 18 of 563 Part-II (1) it is mentioned that FDA & Alarm system to be considered which is not reflected in the BPS (Bid price schedule). Pl. Confirm FDA system is under Bidder scope or not? If yes then which area/building to be considered under FDA system and which type of FDA to be considered (Conventional/addressable type).	The Price for NIFPS shall be included in the price of Power Transformer in the Price Schedule of respective substations. Fire Detection and Alarm System (FDA) is in the scope of the bidder and to be provided as per specification. The price for FDA shall be quoted under Item at Sl. No. 25 for Basnatapur and Baneshwar and Sl. No. 26 for Tumlingtar of Price Schedule of respective substations. All areas of Control Room cum Administrative Building and DG Set Room susceptible for fire shall be provided with FDA and same shall be decided during detailed Engineering. Addressable type FDA shall be provided.
12)	Section-4: Chapter-18	Clause no 18.9.		AIR CONDITIONING AND VENTILATION EQUIPMENT	As per clause no 1.5.11. of Section-1 of 563 Part-II (1), it is mentioned that Air conditioning system of switchyard panel room. However It is not reflected in the	Confirmed. AC System to be provided in Switchyard Panel Room for Inaruwa Substation as per Clause 1.5.11 of Section-1, Part-II.

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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
					BPS (bid price schedule) and AIR CONDITIONING AND VENTILATION EQUIPMENT specification in clause 18.9.	Employers Requirements. Quantity may be included in the Sl. No. 17 of Schedule 1,2 & 4 of Inaruwa substations
					Pl. confirm AC system in switchyard panel room/Kiosk Type of AC (Split/Telepack)	Non CFC type Split AC as per specification shall be provided in Switchyard Panel Room.

Civil

13)	563 Part-II (1)	Civil Specification.		Contour Drawing	We understand that tender provided contour drawings are firm and correct We are considering the details of the Contour drawing for the tender engineering.	Contour Drawings are tentative and for Tender purposes only. Refer Clause No 16.1.1 (b) and 16.2.4 of Chapter-16, Section-4, Section-VI, Part-II: Employers Requirements
14)	563Part-II (1)	Civil Specification		SBC Report	Request you to provide the SBC report for the all sites for correct assumption of the tender engineering.	Geo-Technical Investigations including determination of SBC is in the scope of successful Bidder. Refer Clause No 16.1.1 (c) and 16.2.3 of Chapter-16, Section-4, Section-VI, Part-II: Employers Requirements.
15)	563Part-II III	WAP/POWER/NEP AL/KOSHI/KC2		Thickness of Gravel	The said drawing shows gravel thickness for site surfacing as 150 mm. However as per	Thickness of Gravel layer shall be as per design requirement. However, its

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WAPCOS

Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		/C1			specification clause no 16.55.4, bidder has to consider 100 mm thickness of gravel laying. We are considering 100 mm thickness as per specification. Kindly confirm our assessment	thickness shall not be less than 100mm.
16)	BPS			"Carrying out the landscaping of whole substation area in harmony with surrounding area of substation by utilizing the services of a qualified experienced Architect."	BPS calls for Landscaping at Basantapur, Baneshwar, Tumlingtar at whole Substation and surrounding area. 1) However, requirement of landscaping with area is not clear form BPS and Tender layout drawing. 2) We request to you kindly specify the quantum of area inside switchyard boundary wall & surrounding area to be considered for Landscaping. 3) Please also provide the specification of the actual requirement of landscaping.	The details shall be furnished separately.
17)	General			Un-used/vacant area	We understand that, land development work and other related civil & electrical work in un-used and vacant area inside substation boundary are not in bidder's scope.	The land development work and other related Civil and Electrical works have to be carried out by bidder within Substation boundary walls.
18)	General			DG Bldg.	We understand that bidder can optimize the DG BLDG. area as per manufacturing criteria at tender	Refer Clarification at Sl. No. 5 above.



Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
19)	General			DG Bldg.	stage. Kindly confirm. In continuation of the above also clarify that whether bidder can optimize the 'plinth area of the Control Room or not	Refer Clarification at Sl. No. 5 above.
20)	General			Tree Cutting	We understand that any type of tree cutting with statutory clearance scope has been excluded from bidder present scope. Kindly confirm.	Statutory Clearances, if any for tree cutting shall be obtained by Employer. However, the tree cutting shall be in the scope of bidder.
21)	563 Part-II(1)	WAP/POWER/NEPA L/KOSHI/KC2 /C1 WAP/POWER/NEPA L/KOSHI/KC2 /C2 WAP/POWER/NEPA L/KOSHI/KC2 /C3	1038 of 1068	TYPICAL DETAILS OF CABLE TRENCH WITH Cable Tray UNDERGROUND WATER TANK DETAILS 10) TYPICAL DETAILS FOR STONE MASONARY BREAST WALL AND TYPICAL SECTION OF RCC RETAINING WALL TYPICAL SECTION FOR STONE MASONARY DRAIN DETAILS OF ROAD CUM RAIL TRACK	We understand that these tender attached drawings are tentative and for reference only. We understand that bidder can design & optimized listed drawings as per actual requirement Please confirm our understanding.	Confirmed except Underground Water Tank. The capacity of underground water tank shall be as specified in item Sl. No.10 of Price Schedule-4.1b of respective Substations. All these structures shall meet the General and Specific Technical Requirements specified in clause 16.2 and other requirements specified in Chapter-16, Section-4, Section-VI, Part-II: Employer's Requirements.



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WAPCOS

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(1)	(2)	(3)	(4)	(5)	(6)	(7)
		/C5		PLAN AND SECTION FOR 36 kv VCB		
		WAP/POWER/NEPA L/KOSHI/KC2 /C6		CIRCUIT BREAKER		
		WAP/POWER/NEPA L/KOSHI/KC2 /C7		14) PLAN AND SECTION FOR 36 kv ISOLATOR		
		WAP/POWER/NEPA L/KOSHI/KC2 /C8		15) PLAN AND SECTION FOR 36 kv (3 POLE)VCB CIRCUIT BREAKER		
		WAP/POWER/NEPA L/KOSHI/KC2 /C9		PLAN AND SECTION FOR 245 kv AND 145 kv (3 POLE)ISOLATOR		
		WAP/POWER/NEPA L/KOSHI/KC2 /C10		FOUNDATION PLAN FOR 245 kv SF-6 CIRCUIT BREAKER		
		WAP/POWER/NEPA L/KOSHI/KC2 /C11		FOUNDATION PLAN AND SECTION FOR 145 kv & 36 kv GANTRY FOUNDATION		
		WAP/POWER/NEPA L/KOSHI/KC2 /C12		FOUNDATION PLAN AND SECTION FOR		



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(1)	(2)	(3)	(4)	(5)	(6)	(7)
				245KV GANTRY COLUMN AND LIGHTNING MAST		
22)	563Part-II (1)	WAP/POWER/NEPA L/KOSHI/KC2 /C13		FOUNDATION PLAN AND SECTION FOR 145 KV (SINGLE POLE)ISOLATOR	We understand that these tender attached drawings are tentative and for reference only. We understand that bidder can design& optimize listed drawings as per actual requirement Please confirm our understanding.	Refer Clarification at Sl. No. 5 above.
		WAP/POWER/NEPA L/KOSHI/KC2		TYPICAL LAYOUT OF R.C.C. RETAINING WALL		
		WAP/POWER/NEPA L/KOSHI/KC2 /C14		TYPICAL LAYOUT FENCE FOR SWITCHYARD		
		WAP/POWER/NEPA L/KOSHI/KC2 /C15		A TYPICAL SECTIONAL ELEVATION FOR 100MVA TRANSFORMER FOUNDATION		
		WAP/POWER/NEPA L/KOSHI/KC2 /C16		TYPICAL FOUNDATION PLAN FOR TRANSFORMER		
		WAP/POWER/NEPA L/KOSHI/KC2 /C17		TYPICAL PLAN AND ELEVATION FOR OIL COLLECTION PIT		
		WAP/POWER/NEPA L/KOSHI/KC2 /C18				
Electrical						



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Sl.No.	Section	Clause No./Dig No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
23)	Section -1 & SLD of 220/132/3 3kV Basantpur Substation	1.1.1.1.A.220kV Side	5 of 21	1 No. of 220 kV Incoming line bay with full equipment for Tumlingtar Basantpur Single Circuit Line.	As per section-1, No. of bays defined 1 No. of 220 kV Incoming line bay with full equipment for Tumlingtar Basantpur Single Circuit Line. However, as per SLD, 1 No. of 220 kV outgoing line bay with full equipment for Basantpur-Inaruwa Single Circuit Line.	The Scope of Work shall be as per Clause 1.1.1 A, Section-1, Section-VI, Part-II: Employer's Requirements.
24)	Section -1 & SLD of 220/132/3 3kV Basantpur Substation	1.1.1.B.132kV Side	5 of 21	1 No. of 132 kV line bay with full equipment for Basantpur Dhungesangu Single Circuit Line.	As per section-1, 1No. of 132 kV line bay with full equipment for Basantpur - Dhungesangu Single Circuit Line. However, as per SLD, 1 No. of 132kV Incoming line bay with full equipment from Change 132kV is shown as future. Hence Please confirm the Present scope of work	The Scope of Work shall be as per 1.1.1 B, Section-1, Section-VI, Part-II: Employer's Requirements. 'Change' (i.e. name of place of future substation not part of this specification) wherever occurring in the Bid documents shall be read as 'Dhungesangu'
25)	Price Schedule –	Sl. No.19		Gantry/Towers/Beams/Lig	Please provide the Structural drawing for Gantry Towers/	Preparation of Structural drawings for Gantry



Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2a	2a			htning/ lighting Mast/Equipment Supporting Structures	Beams/Lighting/Lighting Mast/ Equipment supporting structures of 220kV, 132kV & 33kV Voltage level.	Towers/Beams/Lighting/ Lighting Mast/Equipment supporting structures are in the scope of successful bidder. Refer Clause 1.1, Section-1, Section-IV and Clause 1.0, Chapter-17, Section-4, Section-VI, Part-II: Employers Requirements.
26)	Section-6: Drawings	WAP/POWER/NEP AL/KOSHI/KC2/CRB -03		CONTROL ROOM BUILDING LAYOUT FOR BASANTPUR SUBSTATION	We understand that Dimensions shown in the Control room building layout is indicative, some shall be optimize as per bidder requirement based on the substation requirement. Please confirm our understanding.	Dimensions are indicative only and shall be finalized during detailed design engineering.
27)	Price Schedule – 2a	Sl. No.- 9.1.2		1.1kV, PVC insulated, sheathed, Galvanised steel wire/strip armoured and aluminium steel/strip armoured LT FRLS, stranded Aluminium power cable complete as per specification.	We understand that based on the location of Control room building and equipment location cable sizes mentioned is not sufficient for carrying the desired current considering voltage drop etc. hence bidder can use LT power cable size as per requirement other than the size mentioned in the price schedule. Please confirm our understanding.	Cable sizes shall be finalized/ approved as per requirement during detailed design engineering.



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(1)	(2)	(3)	(4)	(5)	(6)	(7)
28)	General			Illumination	We understand that Illumination of Switchyard for present scope of work is under present scope of work only. Please Confirm.	Confirmed including illumination of specified level along the boundary wall.
29)	General			Illumination	We understand that Illumination of area required under future scope/equipment is not under present scope of work. Please Confirm our understanding.	Refer Clarification at Sl. No.28 above.
30)	General			Earthing Material	We understand that Main Earth mat conductor is laid, for present scope of equipment/bay only. No Future area/equipment is considered under present scope of work. Please confirm our understanding	Confirmed.
31)	General			Shield wire/Lightning Protection	We understand that Lightning protection is considered only for present scope of equipment/bay only through shield wire/Light cum lightning mast. No Future area/equipment is considered under present scope of work. Please confirm our understanding.	Confirmed.
32)	General			cum Light	Please confirm the Height & type	Design of Light cum



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(1)	(2)	(3)	(4)	(5)	(6)	(7)
				Lightning Mast	of most Tubular type or Lattice type.	Lightning Mast is in the scope of the successful bidder as per clause 1.4.2, Chapter-17, Section-4, Section-VI, Part-II: Employers Requirements.
33)	General			Illumination	We understand that we can mount lighting fixture on Switchyard Gantry Towers to illuminate the switchyard. Please confirm our understanding	Confirmed.
34)	General			Illumination	We understand that we can mount lighting fixture on Switchyard Gantry Towers to illuminate the switchyard. Please confirm our understanding	Refer Clarification at Sl. No.33 above.
35)	Section -6, Drawings	WAP/POWER/NEP AL /KOSHI/KC2/06		PLOT & LAYOUT OF 220/132/33 KV SUBSTATION AT BASANTAPUR	Please provide the Auto Cad format of the Plot Plan drawing	Not Acceptable
36)	Section -6, Drawings	WAP/POWER/NEP AL /KOSHI/KC2/06		PLOT & LAYOUT OF 220/132/33 KV SUBSTATION AT BASANTAPUR	Please provide the Sectional view drawing of Plot Plan in PDF & Auto CAD format	Not Acceptable



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(1)	(2)	(3)	(4)	(5)	(6)	(7)
Civil						
37)	563 Part-II (1)	WAP/POWER/NEP AL /KOSHI/KC2/06 Sht 1 of 1 Rev 06	1046 of 1068	Terrace Level	As per said drawing Terrace level has been marked as +2435 M and +2440 M. We understand that the Terrace levels are fixed and we assume these as FGL of the yard. Kindly confirm our understanding.	These Levels are tentative for tender purpose only. Refer Clause No. 16.2.5 Chapter-16, Section-4, Section-VI, Part-II: Employers Requirements.
38)	563 Part-II (1)	WAP/POWER/NEP AL /KOSHI/KC2/06 Sht 1 of 1 Rev 06	1046 of 1068	Compound Wall, Staff Quarters	As per said drawing detail, Compound Wall, Staff Quarters are not in scope of this specification. We understand total Civil work related to Compound wall, Staff quarters are not in present scope of bidder. Kindly confirm.	Confirmed.
39)	563 Part-II (1)	1.4.1	16		"One natural stream/drain is passing through the site and one other stream/drain is running on its left periphery. One Kachcha road taking off from highway is also passing through the substation and it forms the boundary of substation towards the hill side. The stream passing through the substation site divides the site into two parts and is quite deep and may be carrying significant quantity of water during monsoon period. It may not be desirable to divert these drains." We understand that any Civil	Civil works related to Stream/drain are in the scope of the bidder. Refer item at Sl. No. 1.6 & 2 in Price Schedule 4.1b, 4.2b of BPS.



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40)	563 Part-II (11	WAP/POWER/NEPA L/KOSHI/KC2 /06 Sht 1 of 1 Rev 06	1046 of 1068	Future/ part of Unused Substation	We understand that, any type of civil work i.e. Land Development. Yard PCC etc. at the unused part of Switchyard. Staffs colonies are as are not in Bidder's Civil work scope. The scope is limited only upto the Switch yard area.	Refer Clarification at Sl. No.17 and Sl. No. 38 above.
41)	563 Part-II (11	WAP/POWER/NEPA L/KOSHI/KC2 /06 Sht 1 of 1 Rev 06	1046 of 1068	Fencing	We could not found any demarcation of Fencing at the tender provided layout. Requesting you to mark the fencing for the correct assumption of tender engineering.	Fencing to be provided for the complete switchyard area including future bays also. Refer item at Sl. No. 14.0 of Schedule 4.1b, 4.2 b & 4.3 b of BPS.
42)	563 Part-II (11	WAP/POWER/NEPA L/KOSHI/KC2 /06 Sht 1 of 1 Rev 06	1046 of 1068	Internal Road 3.00 m	We observed that there is no interconnection has shown between the 5.00 m wide with 3.00 m road of 132/33 kV Switchyard. Please mark the same for correct assumption of tender engineering.	The Layout of road including their width is already shown in the Plot & Layout Plan Drawings of respective substation in Section-6, Section-VI, Part-II: Employer's Requirements. In these drawings, '3.0m wide road' may be read as '3.5m wide road'. However, Road Layout will be finalised during detail design engineering based on the approved layout of the respective substations.



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(1)	(2)	(3)	(4)	(5)	(6)	(7)
43)	563 Part-II (1)	WAP/POWER/NEPA L/KOSHI/KC2 /06 Sht 1 of 1 Rev 06		Approach Road	Said specification does not describe about the scope of approach road. We understand that any work related to approach road has been excluded from bidder's scope.	All the substations are located adjacent to the highway. Approach Road from Highway to the Substation if any shall be in the scope of the bidder except in Tumlingtar where approach road is being constructed by Employer which will pass by the side of substation. Successful Bidder shall be required to connect the substation road to said approach road. It is strongly recommended that the bidders shall visit the site and acquaint themselves about the requirement of approach road at each substation.
44)	563 Part-II (1)	16.58.21 BPS 4.1.b.10	742	External water supply from Source to underground water tank and from	The work of external water supply shall include making arrangement for potable water. From source to underground R.C.C. water tank of 50 cubic meter capacity and from	A. Potable Water: ■ Tumlingtar Substation: A water supply project is under implementation



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(1)	(2)	(3)	(4)	(5)	(6)	(7)
				underground water tank to oil facilities in Substation	underground water tank to all facilities including Control Room Building, D.G. Set Room Building etc. Kindly specify the detail and distance of source for correct assumption of tender engineering.	by local government and potable water requirement of project is expected to be met from the same source as water supply pipe line of said project is likely to pass close to substation site. ■ Baneshwar Substation: There is small water pipeline 200m below the substation site and the possibility of obtaining potable water from there is required to be examined. ■ Basantapur Substation: The potable water source is available inside the Substation Site which can be developed and utilized for purpose of meeting the requirement of potable water of substation:



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(1)	(2)	(3)	(4)	(5)	(6)	(7)
						<p>B. Construction Water</p> <p>As regard the construction water, it shall be managed by the contractor himself. Since the requirement of construction water is going to be huge, the possible potable water source at all the sites cannot be used for construction purpose. It is advisable that for Tunlingtar and Baneshwar, the contractor may use the water from Sabha Khola (river) by transporting it in the portable tankers. For Basantapur & Inaruwa Substations, the construction water can be fetched from the nearby stream from the site through tankers. "</p> <p>Also refer clause 9.9, Section-VII of Part-III.</p> <p>It is also strongly recommended that bidders shall visit the site and assess the details of source of water</p>



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(1)	(2)	(3)	(4)	(5)	(6)	(7)
						in and around each substation area.

Civil

45)	Price Schedule -2b	Sl. no.-19		Gantry Towers/ Beams/Lighting /Lightning Mast/Equipment supporting structures	Please provide the structural drawing for gantry towers/beams/lightning/ Mast/Equipment supporting structures of 220 kV & 33kV Voltage level.	Refer Clarification at Sl. No. 25 above.
46)	Section-6: Drawings	WAP/POWER/NEPAL/KOSHI/KC2/C RB-02		CONTROL ROOM BUILDING LAYOUT FOR BANESHWAR SUB-STATION	We understand that Dimensions shown in the control room building layout is indicative, same shall be optimize as per bidder requirements based on the substation requirements. Please confirm our understanding.	Refer Clarification at Sl. No. 26 above.
47)	Price Schedule	Sl. No.-9.L12		1.1kV,PVC insulated, PVC sheathed, Galvanised steel wire/strip armoured and aluminium steel/strip armoured LT FRLS, stranded Aluminium power cable complete as per specification	We understand that based on the location of Control room building and equipment location cable sizes mentioned is not sufficient for carrying the desired current considering voltage drop etc. hence bidder can use LT power cable size as per requirement other than the size mentioned in the price schedule. Please confirm our understanding.	Refer Clarification at Sl. No. 27 above.
48)	Section-	WAP/POWER/NEPA		PLOT & LAYOUT	Please provide the Auto Cad	Not acceptable



Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	6: Drawings	L/KOSHI/KC2/05		PLAN OF 220/33 KV SUBSTATION AT BANESHWAR	format of the Plot Plan drawing.	
49)	Section - 6: Drawings	WAP/POWER/NEPA L/KOSHI/KC2 /05		PLOT & LAYOUT PLAN OF 220/33 KV SUBSTATION AT BANESHWAR	Please provide the Sectional view drawing of Plot Plan in pdf. & Auto Cad format.	Not acceptable
50)	563 Part-I I (1)	WAP/POWER/NEPA L/KOSHI/KC2 /05 Sht 1 of 1 Rev 06	1045 of 1068	Terrace Level	As per said drawing Terrace level has been marked as +1435 M. We understand that there is one Terrace level has been planned for Baneshwar and we assume +1435M as FGL of the yard. Kindly confirm our understanding.	Refer Clarification at Sl. No. 37 above.
51)	563 Part-II (1)	WAP/POWER/NEPA L/KOSHI/KC2/05 Sheet-1 of 1 (Rev 06)	1045 of 1068	Compound Wall, Staff Quarters	As per said drawing detail, Compound Wall, staff Quarters are not in scope of this specification. We understand total civil work related to Compound wall, Staff quarters are not in present scope of bidder. Kindly confirm.	Refer Clarification at Sl. No. 38 above.
52)	563 Part-III (1)	1.4.1	16	Drain	As per specification "A catch drain shall be required on hill side periphery for arresting the rain water from hill side towards substation site. Request to mark the catch drain with orientation and invert level to assess the correct quantity for	The Requirement of Catch Drain shall be finalized by the successful bidder during detailed design engineering as per site requirements. Refer Item at Sl. No 1.7 in Price Schedule 4.1b, 4.2b of BPS.



Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
53)	563 Part-II (1)	WAP/POWER/NEPA L/KOSHI/KC2/05 Sheet-1 of 1(Rev 06)		Approach Road	tender engineering. Said specification does not describe about the scope of approach road. Also there is no marking at tender provided layout. We understand that any work related to approach road has been excluded from bidder's scope.	Refer Clarification at Sl. No. 43 above.
54)	563 Part-II (1)	WAP/POWER/NEPA L/KOSHI/KC2/05 Sht 1 of 1 Rev 06	1045 of 1068	Fencing	We could not found any demarcation of Fencing at the tender provided layout. Requesting you to mark the fencing for the correct assumption of tender engineering.	Refer Clarification at Sl. No. 41 above.
55)	563 Part-II (1)	WAP/POWER/NEPA L/KOSHI/KC2/05 Sht 1 of 1 Rev 06	1046 of 1068	Future/ Unused part of Substation	We understand that, any type of civil work i.e. Land Development. Yard PCC etc at the unused port of Switchyard. Staff colony area ore not in Bidder's Overwork scope. The scope is limited only up to the switch yard area.	Refer Clarification at Sl. No. 40 above.
56)	563 Part-II (1)	16.58.21 BPS 4.2.b.10	742	External supply from Source to underground water tank and from underground water tank to all	The work of external water supply shall include making arrangement for potable water from source to underground R.C.C. Water tank of 50 cubic meter capacity and from underground water tank to all facilities including Control Room Building, D.G. Set Room Building etc.	Refer Clarification at Sl. No. 44 above.



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
				facilities in Substation	Kindly specify the detail and distance of source for correct assumption of tender engineering.	

Electrical

57)	Section-1 & SLD of 220/132/33kV Basantapur Substation	1.1.1,3,A,220KV side	7 of 21	1 Nos. of 220 kV Outgoing line boy with full equipment for Tumlingtar Basantapur line	As per section-1, No. of bays defined 1 Nos. of 220 kV Outgoing line boy with full equipment for Tumlingtar Basantapur line. However as per SLD 1 No. of 220 kV outgoing line boy with full equipment for Baneshwar S/s as present scope of work. Hence Please confirm the Present scope of work.	The Scope of Work shall be as per Clause 1.1.1, 3 B, Section-1, Section VI, Part-II: Employers Requirements.
58)	Section-3	1.3(d) Insulator Housing	9 of 49	Creepage Distance not less than (mm) 6125+20% for 220KV. 3625+20% for 132KV & 900+20% for 33KV.	As per section-1, Height of Tumlingtar substation is between MSL +445m to MSL +450, which is less than MSL + 1000m, hence we understand that some clause (Creepage Distance not less than (mm) 6125+20% for 220KV. 3625+20% for 132KV & 900+20% for 33KV) is not applicable for 220/132/33 kV AIS Substation Tumlingtar. Some is applicable for All equipment's. Please confirm our understanding.	Refer Clarification at Sl. No. 4above.



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
59)	Price Schedule - 2c	Sl. No.-19		Gantry Towers/Beams/Lighting/Lighting Mast/Equipment supporting structures	Please provide the Structural drawing for Gantry Towers/Beams/Lighting/Lighting Mast/Equipment supporting structures of 220kV, 132kV & 33kV Voltage Level	Refer Clarification at Sl. No. 25 above.
60)	Section-6 Drawings	WAP/POWER/NEPA I/KOSH/KC2/CRB-01		CONTROL ROOM BUILDING LAYOUT FOR TUMLINGTAR SUB-STATION	We understand that Dimensions shown in the Control room building layout is indicative. Some shall be optimize as per bidder requirement based on the substation requirement Please confirm our understanding.	Refer Clarification at Sl. No. 26 above.
61)	Price Schedule - 2c	Sl. No.- 9.12		1.1 KV, PVC insulated. PVC sheathed. Galvanised steel wire/strip armoured and aluminium steel/strip armoured LT FRLS. stranded Aluminium power cable complete as per specification	We understand that based on the location of Control room building and equipment location cable sizes mentioned is not sufficient for carrying the desired current considering voltage drop etc. hence bidder can use LT power cable size as per requirement other than the size mentioned in the price schedule. Please confirm our understanding.	Refer Clarification at Sl. No. 27 above.
62)	Section-6: Drawings	WAP/POWER/NEPA I/KOSH/KC2/04		PLOT & LAYOUT PLAN OF 220/132/33 KV SUBSTATION AT TUMLINGTAR	Please provide the Auto CAD format of the Plot Plan drawing.	Not Acceptable.



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
63)	Section-6: Drawings	WAP/POWER/NE PAL /KOSHI/KC2/04		PLOT & LAYOUT PLAN OF 220/132/33 kv SUBSTATION AT TUMUNG TAR	Please provide the Sectional view drawing of Plot Plan in PDF & Auto CAD format	Not Acceptable.

Civil						
64)	563 Part-II (1)	WAP/POWER/NE PAL /KOSHI/KC2/04 Sht 1 of 1 Rev 06	16	Terrace Level	As per said specification, Tumlingtar substation shall be constructed in one terrace level. Request you to provide the exact FGL of the yard.	Refer Clarification at Sl. No. 37 above.
65)	563 Part-II (1)	WAP/POWER/NE PAL /KOSHI/KC2/04 Sht 1 of 1 Rev 06	1045 of 1068	Compound Wall. Staff Quarters	As per said drawing detail. Compound Wall. Staff Quarters are not in scope of the specification. We understand total Civil work related to Compound wall. Staff quarters are not in present scope of bidder. Kindly confirm	Refer Clarification at Sl. No. 38 above.
66)	563 Part-II (1)	WAP/POWER/NE PAL /KOSHI/KC2/04 Sht 1 of 1 Rev 06	1045 of 1068	Fencing	We could not found any demarcation of Fencing at the tender provided layout Requesting you to mark the fencing for the correct assumption of tender engineering.	Refer Clarification at Sl. No. 41 above.
67)	563 Part-II (1)	WAP/POWER/NE PALKOSHI/KC2/04 Sheet-1 of 1 (Rev06)	1046 of 1068	Future/ Unused port of Substation	We understand that any type of civil work i.e. Land Development. Yard PCC etc. at the unused port of Switchyard, staff colony area are not in Bidder's Civil work	Refer Clarification at Sl. No. 40 above.



Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
68)	563 Part-II (1)	16.58.21 BPS 4.3.b.10	742	External water supply from Source to underground water tank and from underground water tank to all facilities in Substation	scope. The scope is limited only up to the Switch yard area. "The work of external water supply shall include making arrangement for potable water from source to underground RC.C. Water tank of 50 cubic meter capacity and from underground water tank to all facilities including Control Room Building, D.G. Set Room Building etc..." Kindly specify the detail and distance of source for correct assumption of tender engineering.	Refer Clarification at Sl. No. 44 above.

Electrical

69)	Section-3	1.3 (d) Insulator Housing	9 of 49	Creepage Distance not less than (mm) 6125+20% for 220kV, 3625+20% for 132kV & 900+20% for 33kV.	As per section-1, Height of Inaruwa Substation is MSL +80m, hence we understand that same clause (Creepage Distance not less than (mm) 6125+20% for 220kV, 3625+20% for 132kV & 900+20% for 33kV) is not applicable for 220kV AIS Inaruwa Substation. Same is applicable for all equipments. Please confirm our understanding.	For Inaruwa Substation, the Creepage distance shall be provided in line with the existing substation design and that will be provided to successful bidder during detail Engineering.
70)	Section-4	Chapter-7	2 of 4	The earthing design for extension of 2	We request to please provide the Earth mat drawing of Existing Substation.	Drawing is enclosed at Annex-1.



Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
				No. of 220 kV line boys at Inaruwa shall match the existing system.		
71)	General			Dismantling work pertaining to two no Line bays	Please confirm that there are no dismantling /shifting of any equipment/Foundation/structure pertaining to the two nos. of line bays or in the present scope of work. Customer will provide the levelled land for the present scope of work.	Confirmed
72)	General			Location of Relay Panels for two nos. of Line bays	We understand that CRP panels for two nos. of Line Bays shall be placed inside the existing relay room. Kindly confirm whether our understanding is correct	No. Separate Switchyard Panel Room shall be constructed in the switchyard matching with the existing design to accommodate C&R Panels of two bays and integration with existing system is in the scope of the successful bidder. A typical drawing of Switchyard Panel Room of existing substation is attached at Annex-II for reference.
73)	General			Space in Control room	We understand that existing relay room has sufficient space for CRP panels for two no. Line Bays.	Refer Clarification Sl. No. 72 above.



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
74)	General			Auxiliary power supply for two no. Line bay equipment's	Kindly confirm.	Confirmed.
75)	General			Spare ACDB/DCDB feeders	We understand that existing LT Switchgear Panels (ACDB, MLDB, ELDB. 220V DCDB, 48V DCDB) have sufficient nos. of feeders with adequate ratings to cater the all AC & DC power requirement for the two no. Line bays. Please confirm.	Confirmed.
76)	General			Space in Cable Trench	We understand that existing cable trench from auxiliary control room (LT switchgear room) to nearest interconnection trench location of new Line bays have sufficient space for the laying of AC Power, DC Power, Control cable & communication cables for present scope of work. Please confirm.	Confirmed.
77)	General			Battery & Battery charger for Two no. Line bays.	We understand that existing batteries have the sufficient capacity to cater the DC load requirement for the two nos. of line bays under present scope. Please confirm.	Confirmed.
78)	General			Cabling for AIS	We understand that that for two	Confirmed.



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
				equipment	nos. of line bays cabling for auxiliary supply shall be done form existing LT switchgear room.	
					Cabling shall be done in the existing cable trench, which have sufficient space for the laying of power cable, control cable, DC cable and communication cable.	
					Please confirm the same.	
79)	General			Existing 415V auxiliary LT transformer	We understand that existing 415V auxiliary LT transformer is sufficient to cater the load requirement under present scope of works.	Confirmed.
					Please confirm.	
80)	General			Existing cable trench layout	We request to you please provide the Cable Trench layout if Existing substation.	Drawing is enclosed at Annex-III.
81)	General			Location of existing ACDB/DCDB	Please confirm that existing ACDB/DCDB placed in the existing control room.	Confirmed
82)	General			Plot Plan Layout	Please provide the existing Substation Plot Plan Layout	Drawing is enclosed at Annex-IV.
83)	General			Electrical Equipment layout Plan & Sectional drawing	Please provide the Electrical Equipment layout Plan & Sectional drawing of existing Substation.	Drawing is enclosed at Annex-IV and Annex-V.
84)	Price Schedule - 2d	Sl. no. -13		Gantry Towers/Beams/Lighting/Lighting	Please provide the Structural drawing for Gantry Towers/Beams/Lighting/Lighting	Refer clarification at Sl. No. 25 above.



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
				Mast/Equipment supporting structures	Mast/Equipment supporting structures of 220kV Voltage Level.	
85)	General					
86)	Price Schedule - 2d	Sl. No.- 7.1		1.1 kV, PVC insulated, sheathed, Galvanised steel wire/strip armoured and aluminium steel/strip armoured LT FRLS, stranded Aluminium power cable complete as per specification.	We understand that based on the location of Control room building and equipment location cable sizes mentioned is not sufficient for carrying the desired current considering voltage drop etc. hence bidder can use LT power cable size as per requirement other than the size mentioned in the price schedule. Please confirm our understanding.	Refer Clarification at Sl. No. 27 above.
87)	General			Plot Plan Drawing	Please provide the Auto Cad format of the Plot Plan drawing	Not acceptable.
88)	General			Sectional View drawing	Please provide the Sectional view drawing of Plot Plan in PDF& Auto Cad format	Not acceptable.
Civil						
89)	General			Drawing layout. section	Kindly provide Existing Plan, layout and section of the existing switch yard and also the proposed location of the extension.	Refer clarification at Sl. No. 82 & 83. The proposed location of the extension bays will be provided to successful bidder.
90)	563 Part-II (1)		16	Terrace level	Request you to provide the exact FGL of the yard.	It will be provided to the successful bidder.



Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
91)	563 Part-II (1)		14	Small control room for BCU	As per scope and specification. Bidder has to construct a small control room for BCU. However we could find any item related to BCU Control room at price schedule. If the same is in bidder's scope, requesting you to amend the BPS accordingly.	Refer Clarification at Sl. No. 72. Necessary amendment in Price Schedule 4.4 b will be issued separately.
92)	Part-I-A: Price Schedule	BPS Sl. No. 6.1	196	EXTENSION of 2 Nos. of 220 kV BAYS at INARUWA SUBSTATION Block Structural Steel Embedded Parts [To be pointed with one coat of approved Primer and two coats of approved point after complete installation)	We understand the said item's scope is "Black Structural Steel Embedded Parts. [To be painted with one coat of approved Primer and two coats of approved paint after complete installation]" 8500 kg. Kindly Confirm our understanding.	Confirmed.
93)	Part-I-A: Price Schedule	BPS Sl. No. 6.0	196	Providing and fixing structural steel embedment in concrete like angles of specified size for protection of	The said item detail says that bidder's scope is 25626.69 kg. We understand this is typographical error. Request you to elaborate the exact requirement.	Typographical error. "25626.69 kg" stands deleted.



Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
				edges and providing steel plate embedment for supporting cable trays in Cable Trenches and fixing rail on Road-cum-Rail Track and for other similar purposes including the cost of all materials, labour. POL hire charges of construction machinery, fabrication, welding lugs to embedded ports, fixing in position etc. complete as per specifications, approved drawings, relevant Indian Standards and directions of Employer/PM		
94)	563 Part-II (1)	16.58.21 BPS Sl. No. 10	742 196	External water supply from Source to	"The work of external water supply shall include making arrangement for potable water	This item of work not required at Inaruwa Substation. Refer item 10.0



Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
				underground water tank and from underground water tank to all facilities in substation	from source to underground R.C.C. water tank of 50 cubic meter capacity and from underground water tank to all facilities including Control Room Building, D.G. Set Room Building etc ... : Kindly specify the detail and distance of source for correct assumption of tender engineering	of Schedule 4.4 b of BPS.
95)	563 Part-II (1)	16.58.21 BPS Sl. No. 10	742 197	External supply from Source to underground water tank and from underground water tank to all facilities in substation	Further to the above scope describes as LOT 1. However at TOTAL PRICE column it has been shown as "Item of work not require". Kindly provide the exact requirement	This item of work not required at Inaruwa Substation. Refer item 10.0 of 4.4 b of BPS.
96)	563 Part-II (1)	BPS Sl. No.11	197	Providing External Sewage Disposal System from Control Room-cum-Administrative Building,D.G. Set Room Building and other facilities by laying necessary pipes, soil constructing	The said item above scope describes as LOT 1. However, at TOTAL PRICE column, it has been shown as "Item of work not require". Kindly provide the exact requirement	This item of work not required at Inaruwa Substation. Refer item 11.0 of Schedule 4.4 b of BPS.



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
				necessary manholes, septic tank and soak pits etc and all other necessary works complete as per specifications, relevant Indian Standards. C.P.W.D. specifications, approved drawings and directions of Employer/PMC and including the cost of all materials, labour, P.O.L. hire charges of construction machinery etc. [Complete system including Septic tank and Soak Pit shall be designed for 50 users ...		
97)	General			132kV Transmission Line	During site visit, we observed that one number of 132kV transmission line is passing through the proposed site. We understand that relocation/	Confirmed.



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
					dismantling/rerouting work of the transmission line is not in bidder's scope. Kindly confirm	
98)		Taxes & Duties			<p>Kindly confirm the followings:</p> <p>1). We understand that our quoted price are exclusive of all taxes and duties (including VAT, Entry tax, Custom Duty etc.), which are applicable in Employer's country. Please confirm.</p> <p>2). Taxes and duties shall not be considered for price bid evaluation. Please confirm.</p> <p>3). All taxes/duties as applicable in the Employer's country will be paid by the Employer directly. Please confirm.</p> <p>4). We presume that TDS will be deducted and no other deduction shall be made during payment of each invoice. Please confirm.</p> <p>5). Kindly furnish the rate of TDS.</p>	<p>Refer Clause 14 - Part-III, Section VII, General Condition (GC) and Section VIII Particular Condition.</p> <p>Bidders are further advised to consult with Land Revenue Office of Government of Nepal for the detail information of applicable taxes.</p>
99)		Contract Structure			<p>The tender conditions do not stipulate possible contract structure. We presume that three 3 separate contracts shall be awarded viz,</p> <p>1). Supply of Equipment / Plant including Mandatory Spares,</p> <p>2). Erection, Testing &</p>	<p>It is a Single Contract. Refer Contract Forms-2- Contract Agreement, Part-III, Section-IX.</p>



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
100)		Altitude of Proposed Site			Commissioning and 3). Civil Contract. Please confirm.	Equipment should confirm to Part-II: Employer's Requirement.
101)		Source of Construction Power.			Please confirm the source for construction power and water.	Refer Clause 9.9 – Part-III, Section-VII, General Condition (GC) and GC 9.15 of Part-III – Section-VIII: Particular Conditions. Also refer Clause 16.10 and Clause 16.11, Chapter-14, Section-4, Part-II, Employer's Requirements
102)		Price Schedule.			We presume that we have to quote strictly as per BOQ provided in tender documents and any variation in quantities	Refer Clause GC 11.1, GC 11.3 Part-III Section-VIII: Particular Conditions Also refer clause g (2) of



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
					shall be paid on unit rate basis as quoted by bidder in price schedule. Please confirm.	letter of Bid of Part-I and clause 1.5.6 of Section-I of Part- II.
103)		Price Adjustment.			We request you to consider the application of price variation for Power Transformer, Station Transformer, Circuit Breaker, Current Transformer, Voltage Transformer, Disconnecting Switches, Surge Arrestors, Power & Control Cables, Steel Structure, Nut- Bolts, Installation (including Civil works), Reinforcement Steel, Concreting as per IEEEMA price variation formulas.	Not acceptable. Refer Clause GC 11.2, Part-III Section-VIII: Particular Conditions and Clause ITB 17.7, Part-I, Section-II: Bid Data Sheet.
104)		Limitation of Liability			We presume indirect and consequential damages are excluded and contractors' aggregate liabilities are limited to contract price only. Kindly confirm.	Adhere to Clause 30, Section-VII, General Conditions, Part-III
105)		Soil Investigation & Contour Survey			Kindly furnish the soil investigation & contour survey reports for proposed substation lands.	Refer Clarification at Sl. No.13 and Sl. No.14 above.
106)		Physical Possession of Land			Please confirm that the legally clear, encroachment free land is in physical possession of NEA and we shall be handed over clear land free from any encumbrances at the time of	Confirmed.



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
107)		Transportation			contract award.	
					1). We presume that the requisite permission, for transportation of heavy equipment, from NHA shall be arranged by NEA. Please confirm. 2). Any strengthening / modification required in the existing culverts, road, bridges etc for transportation of material / Items / equipment up to proposed site shall be carried out by the NEA. Please confirm.	The requisite permission for transportation of equipment has to be arranged by the contractor himself. However, Employer may assist contractor for obtaining such permission, if any. 2) Not Acceptable. It is bidders responsibility to transport all equipment/materials to respective substation sites and bidders are supposed to make their own assessment of existing road conditions and transportation limitations.
108)		List of Make			Kindly furnish the NEA approved "List of Makes" for all equipment / material / Items.	Refer Clause 2.7, Part-I, Section-III: Evaluation and Qualification Criteria.
109)		Country of Origin			We presume that the equipment/ materials / Items to be supplied under present scope shall have their origin other than India also. Please confirm.	Refer Clause 5.3, Part-I, Section-I: Instruction to Bidders and Clause ITB 5.1 of Part-I, Section-II: Bid Data Sheet.
110)		Forest Clearance			We presume that forest clearance if any shall be responsibility of NEA and we shall be handed over clear land	There are no forests at selected substation sites. However, cutting of trees



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
					free from any encumbrance at the time of contract award. Please confirm.	and clearing of bushes etc from each substation site if any, will be in the scope of the contractor. But Statutory clearances, if any, for the same shall be obtained by Employer.
111)	Part-1: Bidding Procedure	Section-III / Evaluation and Qualification Criteria/Clause 2.7 Page No. 12		Bidder's Proposed Manufacturer / Subcontractors	The tabular form of <u>MINIMUM CRITERIA TO BE MET</u> IS NOT CLEAR TO APPLICABLE SPECIFIC ITEM DESCRIPTION (Sr. No. 1 to 7). Please clarify the items in tabular form.	Minimum Criteria to be met from (i) to (iii) is applicable for all Items from Sl. No. 1 to 7.
112)	Part-II, Section-VI: Employer's Requirement	Clause 1.5,12 Page 16 of 21		On Job Training in Nepal	Onsite training for Erection, Testing, Commissioning, O&M of equipment shall be separately given at each site with described equipment specific duration or common at one place. Please clarify.	Onsite training for Erection, Testing, Commissioning and O & M of equipments can be given at any of substation (viz. Basantapur, Tumlingtar and Baneshwar).
113)	Part-1: Bidding Procedures	Section-III / Evaluation and Qualification Criteria/Clause 1.2 (a) Page No. 1		Economic Evaluation	Successful completion of facility is described 30 Months, However as per Part-III-Section VIII (Particular Conditions)-GC 8.2, the completion of facilities is described 34 months. Please clarify that the Particular Conditions prevails (Correct).	Typographical Error. The Completion Period is 30(Thirty) months only. (Refer Sr. No. 3 of Addendum No-1)
114)	Part-II: Section-I	Point No. 4) Extension of two		Construction of small control	Please provide drawing.	Please refer clarification at



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		nos of 220 kV line bays at Inaruwa Substation: Page 9 of 21		room for BCU to be located at switchyard itself.		Sl. No 91 above.
115)	Part-II: Section-1	Clause No. 1.4.3 Turnlingtar Page 11 of 21		Site is not located exactly on Koshi Highway which but little inside through a Kachcha road off taking from Koshi highway	Please provide length of Kachcha Road/Approach Road	Refer clarification at Sl. No.43 above.
116)	Part-II: Chapter-16	Clause No. 16.0.1 Civil Works Page 11 of 21		D.G. Set Room building	For DG, Building is required or it should be placed on Foundation only. Please specify	A Building for housing the DG set is required as specified in clause 16.2.15, Chapter-16, Section-4, Part-II: Employer's requirements. Also refer clarification at Sl. No 18.
117)	Part-I-A: Price Schedule	Point No. ii), Sl. No. 19, Schedule 1.a Basantapur 220/132/33kV Substation Schedule -1		Type B (Beams on two sides of Tower)=0	As per plot & Layout of 220/132/33 kV Substation at Basantpur, Middle tower are shown, but in Price schedule quantity of middle Tower are Zero.	Typographical error. It shall be read as 4 (Four). (Refer Sr. No. 2 of Addendum No-1)
118)	Part-II: Section-VI, Section-4: Chapter-	Point No. (k), Section, Page 5 of 150		Construction of all internal bituminous Road	Please provide Standard drawing of bituminous Road for reference purpose.	Refer Clause No 16.2.8 and 16.45, Chapter-16, Section-4, Part-II: Employer's requirements.



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
119)	Part-II: Chapter-22	Cl. No. 22.5.2		Switching Matrix Unit: GUI port required for the connectivity of central rate unit with LAN of control room required so that to enable authorized workstations to monitor the whole plant from their remote locations.	For CCTV, our part will be only limited to proving the communication GUI port, no integration with the NLDC is envisaged in our scope. Kindly Confirm.	Confirmed.
120)		General			Kindly provide the soil investigation and resistivity of the existing and the new substation in order to estimate the earthing quantities during bidding.	Refer Clarification at Sl. No. 14 above. Also Refer Clause 7.2, Part-I, Section-I: Instructions to Bidders and Clause No. 16.18.9, Chapter-16, Section-4, Part-II: Employer's requirements.
121)	Part-II: Chapter-9	Cl. 9.3.2		Load dispatch centre and remote control centre communication interface	Our scope will be limited to providing the channels for interface with the LDC not the integration with LDC.	The bays under present scope at all substations shall be integrated by the contractor into existing SCADA system of Siemens "SINAUT Spectrum"(version



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
						4.3.2) installed at Master Station i.e. Nepal Electricity Authority Load Dispatch Centre. Please refer clause 9.16.8. Integration of SCADA system of Section 4 – Chapter 9; Part-II of Bidding Document.

Baneshwar Substation

122)	Part-I-A: Price Schedule.	Item No. 15.7		Price Schedule	As per item. No. 15.7 of the price Schedule the quantity mentioned for Lightning Mast is Lot 1 but in the Item No. 19.III) of part-1 A schedule, 12 nos. has been specified. We shall consider 12 nos. LM. Please Clarify	The quantity mentioned for Lightning Mast at Item. No. 15.7 of the price Schedule is for the area other than Switchyard Area (if required any) whereas Item No. 19 (III) of Price schedule refers to Quantity of Mast for Switchyard Area only.
123)	Part-I-A: Price Schedule.	Item No. 20.2		Price Schedule	From the layout, SLD and price schedule we understand that there is no 132 kV system in Baneshwar therefore no 132 kV bus bar and equipment is required. Please confirm. Kindly provide the type of bus bar to be used in the 33kV side either ACSR or Al Tube.	Confirmed. Al Tubular Bus Bar shall be provided for 33 kV Switchyard at all substations. Its Price shall be included under item Sl. No. 25 of Price Schedule 1,2 & 4 of respective substations.
124)	Part-II: Section-6	WAP/POWER/NE PAL/KOSHI/KC2/0		Tender layout	We understand that the bus bar extension from the BUS CVT to	Confirmed.



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		5			future lines is not in our scope. Kindly confirm.	
125)	Chapter-7 Part- II	Cl. No. 1.7 Part-II, Specific technical requirements; Cl. 7.2.1; Item 16.0 of price schedule.	S. no a. b. c. d. e.	Item Contr ol room Outdo or yard Riser Earthi ng electrodes Earthi ng Electrode for treated earthi ng	Specification n MS flat 50*10 mm² MS flat 50*10 mm² 50*6 mm² 3 m long * 40 mm dia MS rod 25 mm dia * 3 meter long G.I pipe	The 40mm dia MS rod earthing electrodes are not mentioned in the price schedule instead 25mm dia MS rod is mentioned and no 25mm dia GI treated pipe is used. Kindly clarify.
						d. '25 mm dia MS Rod' to be read as '40 mm MS Rod' in Item 16.0 of respective price schedule and relevant specifications of all substations. e. 40 mm dia * 3 meter long G.I pipe will be used for Earthing Electrode for treated earthing pits. Quantity shall be



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
			pits Earthing System			included in item at Sl.No. 25 of Price Schedule 1, 2 & 4 of respective substations.

Basantpur Substation

126)	Part-I-A: Price Schedule	Item No. 15.7		Price Schedule	As per Item No. 15.7 of the price Schedule the quantity mentioned for Lightning Mast is lot 1, but in the Item No, 19.(III) of part-1 A schedule, 12 nos has been specified. We shall consider 12 nos LM. Please Clarify	Please refer clarification at Sl. No. 122 above.
127)	Part-I-A: Price Schedule	Item No. 20.2		Price Schedule	Kindly provide the type of busbar to be used in the 33KV side either ACSR or Al Tube.	Please refer clarification at Sl.No.123 above.
128)	Chapter 7 Part- II	Cl. No. 1.7 Part-II, Specific technical requirements; Cl. 7.2.1; Item 16.0 of price schedule.	S. no a. Contr ol room b. Outdo or yard	Specification n MS flat 50*10 mm ² MS flat 50*10 mm ²	The 40mm dia MS rod earthing electrodes are not mentioned in the price schedule instead 25mm dia MS rod is mentioned and no 25mm dia GI treated pipe is used. Kindly clarify.	Please refer clarification at Sl. No.125 above.



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
			c. Riser	50*6 mm ²		
			d. Earthing electrodes	3 m long * 40 mm dia MS rod		
			e. Earthing Electrode for treated earthing pits	25 mm dia * 3 meter long G.I pipe		
			Earthing System			

Tumlingtar Substation

129)	Part-I-A: Price Schedule	Item No. 15.7	Price Schedule		As per Item No. 15.7 of the price Schedule the quantity mentioned for Lightning Mast is lot 1, but in the Item No. 19.III) of part-1 A schedule, 12 nos has been specified. We shall consider 12 nos LM. Please Clarify	Refer clarification at Sl. No. 122 above.
130)	Chapter-7 Part-II	Cl. No. 1.7 Part-II, Specific technical	S. no.	Item Specification	The 40mm dia MS rod earthing electrodes are not mentioned in	Refer clarification at Sl. No. 125 above.



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
		requirements; Cl. 7.2.1; Item 16.0 of price schedule.	a. Control room b. Outdo or yard c. Riser d. Earthing electrodes e. Earthing Electrode for treated earthing pits	MS flat 50*10 mm ² MS flat 50*10 mm ² 50*6 mm ² 3 m long * 40 mm dia MS rod 25 mm dia * 3 meter long G.I pipe	the price schedule instead 25mm dia MS rod is mentioned and no 25mm dia GI treated pipe is used. Kindly clarify.	
131)	Part-I-A: Price Schedule	Cl. No.20.2		Price Schedule	Kindly provide the type of busbar to be used in the 33kV side either ACSR or Al Tube.	Refer clarification at Sl. No.123 above.
Inaruwa Substation						
132)					Kindly provide the SLD, Existing	Refer clarification at Sl.



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification														
(1)	(2)	(3)	(4)	(5)	(6)	(7)														
					trench layout and Existing earthmat layout.	No.70, 80, 82 & 83 above.														
133)					Kindly provide the relay type and relay models of Bus Bar Protection for the existing substation	Existing Bus Bar Protection is Numerical type low impedance relay. Details of make and models will be provided to the successful bidder.														
134)					We presume that the ACBD and DCDB have necessary feeders to accommodate the supply for the equipments of our scope of supply.	Confirmed.														
135)	Chapter-7 Part-II	Cl. No. 1.7 Part-II, Specific technical requirements; Cl. 7.2.1; Item 11.0 of price schedule.	<table><tr><th>S. no</th><th>Item</th><th>Specification</th></tr><tr><td>a.</td><td>Control room</td><td>MS flat 50*10 mm²</td></tr><tr><td>b.</td><td>Outdoor or yard</td><td>MS flat 50*10 mm²</td></tr><tr><td>c.</td><td>Riser</td><td>50*6 mm²</td></tr><tr><td>d.</td><td>Earthing</td><td>3 m long * 40 mm dia</td></tr></table>	S. no	Item	Specification	a.	Control room	MS flat 50*10 mm ²	b.	Outdoor or yard	MS flat 50*10 mm ²	c.	Riser	50*6 mm ²	d.	Earthing	3 m long * 40 mm dia	<p>The 40mm dia MS rod earthing electrodes are not mentioned in the price schedule instead 25mm dia MS rod is mentioned and no 25mm dia GI treated pipe is used. Kindly clarify.</p>	Refer clarification at Sl. No.125 above.
S. no	Item	Specification																		
a.	Control room	MS flat 50*10 mm ²																		
b.	Outdoor or yard	MS flat 50*10 mm ²																		
c.	Riser	50*6 mm ²																		
d.	Earthing	3 m long * 40 mm dia																		



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
				odes MS rod		
			e. Earthing Electr ode for treated earthing pits	25 mm dia * 3 meter long G.I pipe		
			Earthing System			
136)	Resolving Row [Right of Way] substation constructions		As per NEA documents, no where it is mentioned that who will clear Row (if any)	We request NEA to clearly confirm that Contractor construction team will not suffer due to Row in the for the tender scope of works and Row will be resolved by NEA well in advance	Refer clarification at Sl. No.20 above.	
137)	Details for earth filling /cutting in the substation site		We did not find the Details for earth filling /cutting in the substation site and contour map is not given	We request NEA to provide the Details for earth filling /cutting in the substation site to quote properly and provide earlier done survey/contour map to evaluate the properly substation scope constructions	The tentative quantities are already provided in the price schedules 4.1, 4.2, 4.3 & 4.4 of respective substations. Tentative Layout plan of Substations has already been superimposed on contour map drawings which are available in Section-6, Drawings, Part-II:	



Sl.No.	Section	Clause No./Dig No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
138)	Allow of variable price in place of FIRM Price			As per tender documents NEA wants all prices should be FIRM till completion of the projects	Knowing the fluctuated Indian & world economy and knowing the complexity of tender scope of works , we request to allow price variable price clause based as per IEEMA India	Employer's Requirements. Refer clarification at Sl. No.103 above.
139)	Extension of Completion Time Period			As per tender documents completion time period mentioned 3month Max	Knowing the complexity & scope of works, we request you to allow completion of works 36 months for each activity excluding monsoon season & and overall completion period 46 months and also confirm that if any of the works/activity of works/part of the works not completed /delayed due to RoW or NEA delayed action part, then completion time period will extender without imposing LD	Refer clarification at Sl. No.113 above and comply to the said requirement.
140)	Incentives for early completions			We did not find any clause for incentives for early completions of works for such complex works	We request to provide @5 % (on total awarded price) incentives for early completions of works of such complex nature	No.
141)	Mobilization advance				We request to allow interest free without BG 15% mobilization advance for such type of works	Adhere to Terms of Payment mentioned in Part-II, Section-IX: Contract Forms, Appendix-I.
142)	Substation				We request you to kindly	During the pre-bid meeting



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	site visit				arrange to give the date when you will depute your officers for site visit so that we can arrange our personnel for substation site visit	held on 20.07.2016, the site visit was scheduled on 22.07.2016 and has already taken place.
143)	Connecting Transmission Line			In the tender documents , no where it is mentioned that incoming 220 KV line is available or 132 KV KV is available for these three new S/s	We request you to kindly confirm that incoming 220 KV line is either available for S/s commissioning or it will be constructed well before S/s construction and bidder will not suffer/payments will not hold if the required transmission line will not be available	Please refer Section VIII, Particular Conditions clause GC 25.2.2 of Part III of Bidding documents.
144)	Electricity & Water			In the tender documents , no where it is mentioned that for these new S/s from where construction purpose electricity & water will be provided	We request you to kindly arrange to confirm that new S/s construction purpose electricity & water will be provided by NEA FREE or if chargeable, what will be the charges	Refer clarification at Sl. No 101 above.
145)	Road & Bridge conditions for transportations of			It is mentioned that bidder has to visit the s/s site and evaluate the conditions of road & bridge for	We request you to kindly confirm that if road & bridges etc found not efficient to transport equipment's/materials and the needed repairs or new	Refer clarification at Sl. No 107 above.



Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	equipment 's/material s to s/s site			transporting the equipment's /materials	constructions etc then NEA will compensate for the same amount	
146)	Taxes & Duties				Kindly arrange to provide details of taxes & duties applicable during executions of works confirm that all taxes & duties applicable will be re-imbrued by NEA as actual	Refer clarification at Sl. No 98 above.
147)					As per clause 1.3.3, enhanced insulation requirements i.e, BIL and PF withstand voltage is specified for 220 kV, 132kV and 33kV. We presume that higher BIL values are applicable only for Basantpur (2470M) and Baneshwar (1440M) above MSL. For Tumlingtar (440M above MSL) and Inaruwa substation (80M above MSL), Standard BIL values corresponding to the three voltages should be acceptable. To be confirmed by NEA.	Specified BIL and PF withstand voltage for 220 kV, 132kV and 33kV/Voltage levels are applicable to Substations at Basantapur, Tumlingtar and Baneshwar. For Inaruwa Substation, BIL and PF withstand voltage for 220 kV Voltage level shall be provided in line with the existing substation design.
148)					Under "Note" in clause 1.3.3, it is mentioned that the nominal creepage distance (25 mm / kV) shall be increased by 20% to take care of the higher altitude of greater than 1000MSL. Nominal	Refer clarification at Sl. No.4 above.

Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
149)					creepage distance shall be applicable for Inaruwa substation. However, since Tumlingtar substation also is at an altitude of less than 1000 M above MSL, NEA to confirm whether nominal creepage can be offered for Tumlingtar substation equipments as well.	
150)					In Part-III: Conditions of Contract and Contract forms, Clause No. GC 8.2, it is given that the time for completion for the contract shall be thirty four (34) months from the effective date whereas in Appendix-4, time Schedule for the completion time required from the effective date is mentioned as Thirty (30) months. Please clarify the actual completion time of contract.	Refer clarification at Sl. No.113 above.
1. 220/132/33 KV New Substations (Basantapur, Baneshwar & Tumlingtar) :-						
					a) Request you to please provide us standard layout section drawings for Basantapur, Baneshwar & Tumlingtar Substation.	Successful Bidder will develop the layout & section of all the substations. Tentative Plot Layout drawings are already available in Section-6, Drawings, Part-II: Employer's Requirements.



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
151)					b) Request you to please provide us Earth Resistively Report or Earth Mat Spacing details for Switchyard Earth Mat calculation.	Please refer clarification at Sl. No. 120 above.
152)					c) Request you to please provide us standard Structural Layout drawing & Standard Tower & Equipment Structure Drawings for Basantapur, Baneshwar & Tumlingtar Substation.	Refer clarification at Sl. No. 25 above.
153)					d) Please Confirm whether Altitude correction factor is required for Baneshwar & Basantapur Substation or not.	Altitude Correction Factor as applicable for Basantapur Substation shall be adopted in the design of Baneshwar and Tumlingtar Substations also.
2. 220 kV Inaruwa Substation (Extn.) :-						
154)					a) Request you to please provide us equipment and cable trench layout inside CRB showing disposition of control panel, ACDB, DCDB, MLDB, RTU for estimation of power and control cable.	Refer clarification at Sl. No. 70, 80, 82 & 83 above.
155)					b) Please confirm whether sufficient space is available in	Refer clarification at Sl. No. 76 above.



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Sl.No.	Section	Clause No./Drg No.	Page No.	Specification Content	Query	NEA Clarification
(1)	(2)	(3)	(4)	(5)	(6)	(7)
156)					main existing cable trench for accommodating the cables of new bay.	
156)					c) Request you to please provide us below mentioned existing drawing for detail Engineering:- i. Plan & Layout Section ii. Erection Key Diagram iii. Earth mat Layout iv. Structural Layout v. Cable Schedule	For item (i) and (ii), refer clarification at Sl. No.80, 82 & 83 above. Other details shall be provided to successful bidder.
157)					Please refer to the clause 2.4.2 Specific Experience (b) rewritten as " In the above contracts, at least on contract should consist of at least one number of three Phase Power/Auto Transformers of 220 kV or higher class voltage rating of minimum 100 MVA (or equivalents capacity in banks of 3 single phase units) and Substation Automation System"	Refer and comply with Clause 2.4.2(a) and 2.4.2(b), Section-III: Evaluation and Qualification Criteria, Part-I: Bidding Procedures.
					In accordance with the above clause	

Sl.No. (1)	Section (2)	Clause No./Drg No. (3)	Page No. (4)	Specification Content (5)	Query (6)	NEA Clarification (7)
					<p>a) 220 KV Substations executed by IECCCL is having the 100 MVA, 220 KV rating class but the supply of the transforms was free issue to us which was received, erected, tested and commissioned by IECCCL. In India most of the Utility boards having the practice of buying bigger transforms themselves and issue free to the contractors to do rest of the works. We hope that here we are clearly meeting the Qualification Requirement.</p> <p>b) Substation Automation System for 220 KV substation, here we would like to submit that 220 KV Substation executed by us in year 2012 did not have the SAS, but during past 3 years we have commissioned 6 Nos. world bank funded Project of rating 132/33 KV substation having the Automation system and all</p>	

Sl.No. (1)	Section (2)	Clause No./Drg No. (3)	Page No. (4)	Specification Content (5)	Query (6)	NEA Clarification (7)
					<p>the substation are under successfully operations since commissioning. So we have good experience and exposure of the SAS of the substations. Any way SAS system is more or less similar for 132/220/400 KV Substation.</p>	



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