

Technical Quries Package - I(Lot-1 & Lot-2)

SI No	Document Volume / Section & Page no.	Reference Clause/Heading	Queries by L&T	Reply by OPTCL
1	Part I; Section 6	Lot-2:Scope of Supply	As per scope of supply, 132 kV UG Single core cable XLPE insulated 800 Sqmm Copper and 630 Sqmm Copper are to be supplied and layed. Kindly clarify what cross-section of cable is used between which all Grid stations.	from Narendrapur-Autonagar - 14 ckt kM & Autonagar- Berhampur - ckt 9 kM (630Sqmm), Narendrapur-Chhatrapur - 13 ckt kM & Narendrapur - Berhampur - ckt 16 kM (800Sqmm)
2	Topo Sheet and Image Map of UG cable route		Berhampur Grid is not appearing in the cable route map.We understand that Ambagada Grid mentioned in cable route is same as Berhampur Grid Substation.Kindly confirm.	Berhampur Grid is same as Ambagada Grid
3	Part II,Technical Specification for Laying ,Testing and commissioning of 132 kV XLPE Underground Power cables	CL No.2.1.3.a	As per referred clause "The product offered should be proven and should be in use in India for a minimum period of 5 years for the same voltage class". As EHV cabling is a new field which is still in its infancy in India, So 5 year minimum performance requirement in India can be met by only limited Manufacturers .This will limit participation of other capable global manufacturers eventhough they have enough experiance and ultimate purpose of tendering i.e,competitive quote for project will not be fulfilled.	As per Tech. Spec
			Being International competitive Bidding and also Project being funded by ADB ,There should not be any restriction for Global participation in supplier/Vendor level.We understand that ADB is favoring global participation from eligible source of countries as it reduces overall project cost and will bring both expertise and technology for the project.So other Manufacturers in global market should also be allowed to participate.	As per Tech. Spec
			At the same time as per CL No.7.1.0.5 "The cable and cable accessories intended for this work shall be ii)proven in service for at least two (2) years as on the date of the bid opening".We understand that this is only applicable for 'Cable accessories and Bonding' .Please confirm.	As per Tech. Spec

4	Part I Section 2	CI No.ITB 18.6	<p>Supply of Huge quantity of EHV cables is under present scope.As you are aware, raw materials of cables like copper,Aluminium,XLPE etc are very volatile commodities. Any variation either upward or downward the price impact is high to project.</p> <p>Providing Price variation will be beneficial for the Project as it will avoid Manufacturers in loading higher price considering the future increase in raw material rates and it enables bidder to quote at actuals thus making bid more competitive.Also any decrease in price same will be transferred to OPTCL.</p> <p>We bring to your attention that OPTCL has provided price variation in their all previous as well as ongoing projects.So we request OPTCL to provide Price Variation to main equipments like Cables,CB,CT,CVT,Structures etc.</p>	PV is Not allowed
5	Part I Section 3	CI No.1.2.1.iv and v	We understand that No taxes and duties will be considered for evaluation (for both direct and bought out transactions).Please confirm.	
6	Part I Section 3	CI No.2.5	As per the clause "the bidder must demonstrate that it has key equipment listed hereafter" but in the table given due to typographical error ,under 'Equipment Type and characteristics' substation and cabling equipments are appearing instead of Plant and machinery.Kindly revise	Corrigendum uploaded
7	Part I Section 3	CI No.2.6	Bus PT,Gas Insulated Bus bar are part of GIS module itself.So minimum criteria requirement for Bus PT and Bus Bar are redundant.We request you to remove SI No.2(Bus PTs in 132 kV Side),3.(Bus PT's in 33 kV Side) and 4.(Gas Insulated Bus Bar) as same will be covered in SI No.1 (132 kV GIS Module).	Corrigendum uploaded
8	Part III Price Schedules		We understand that the cable quantity given is inclusive of Looping ,Bending etc.Please confirm.	Yes
9	Part III Price Schedules		Whether the cable quantity given is inclusive of wastage.	Yes

10	Part I Section 6	1.Scope of Supply of Plant and Services	<p>Only scope of supply is mentioned in the Tender documents.We request you to give breif Scope of works conevered in this present package.From the document it is not clear the exact scope of Civil works like site levelling,boundary wall,roads,drain,Gate etc. and other electrical works like Bus bar extension works,Fire protection system,PLCC system,HVAC etc.</p> <p>Since Design Services in not in scope of Bidder we request OPTCL to give complete design of Substations envisaged in the both Lots.In this way we can ensure that OPTCL requirement is completely met.</p>	Scope as per EPC Contract
11	Part II Technical Specification for Isolators	Annexure List of Special tests to be carried out (If decided by the purchaser)	<p>We understand that the price to be quoted by bidders is exclusive of Special test charges.In case OPTCL decided to conduct the special tests mentioned in the Annexure expenses towards same will be paid by OPTCL.Please confirm</p> <p>Also Kindly provide separate schedule for declaring special test charges.</p>	As specified in bid documents
12	Part III Price Schedules	Lot 1 SI No.1.6 in Schedule 1 & 2 SI No.1.5 in Schedule 4	<p>Kindly clarify the scope of item mentioned as "supply of HV Test charges for 132 kV GIS"</p> <p>We understand that offered products are already type tested and we do not envisage any fresh Type Tests.Hence this item is not applicable.Please confirm</p>	As stipulated in Price schedule
13	Part III Price Schedules	Lot 1 SI No 17 'Schedule No 1,2	<p>We understand that 2 nos of 40 MVA Transformer is the only owner supplied item and the insurance for the same is not under Bidder scope .Kindly confirm.</p> <p>Without knowing Transformer Value make Year of manufacture its difficult to</p>	OK
14	Part III Price Schedules	Lot 1 SI No 17 'Schedule No 3	<p>We understand that only erection,Testing & Commisiioning of transformers (Supplied by owner) is under Bidder's scope.</p> <p>Storage,Transportation from storage to Site,Unloading etc are not under Bidder's scope.Kindly confirm.</p>	Yes
15	Part III Price Schedules		<p>List of Mandatory spares is not avialble in the price schedule.For some equipment like GIS,Isolators and Battery it is mentioned in the technical specification.We understand that for remaining equipments spares are not envisaged.</p> <p>If spares are envisaged Kindly give List of spares and include seperate line item in Price schedule to quote the price of the same.</p>	No madatory spares

16	Technical Specification, Volume - (II) : Clause No. - 3.2.1		Technical Specification, Volume - (II) : Clause No. - 3.2.1 it is mentioned that Circuit Breaker's Disposition must be Horizontal, Circuit Breaker. As this GIS station is getting it designed as per IEC so as per code there is no specific mention of Horizontal or Vertical. In fact any of the circuit disposition is acceptable. As it is specified that only horizontal, Please Clarify whether both Horizontal & Vertical disposition of the Breaker to be acceptable.	For Circuit Breaker both HORIZONTAL & VERTICAL disposition is acceptable
I	Queries for Lot-1 packages (Construction of 132/33kV GIS Sub-station)			
17	Equipment layout drawing	-	We presume that the dimension of buildings shown in referred drawing are tentative only and can be optimised/ increased based on the equipment arrangement (GIS and other equipment). Please confirm.	OK
18	Equipment layout drawing	-	The plot dimension shown in the layout drawing 30 mtr x 40 mtr is only tentative dimension and can be increased to accommodate all equipments as per GA drawings. Please confirm.	OK
19	Section 3	CI No.1.1.2	Since EOT Crane is a fabricated mechanical system we understand that Type Test requirement for EOT Crane is not required. Please confirm	OK
20	Scope	Price Schedule (LOT-1) - item no.2.2	As per BPS, schedule -1 the quantity of 33kV Line feeders given as 5 nos where as the same is given as 4 nos in Specification - scope of supply for Lot-1- sl.no. 5. Please confirm the quantity. SLD also shows 5 Feeders	33kV Five Feeders
21	Single line diagram	Price Schedule (LOT-1) 145kV GIS bay equipment	Bay equipment quantity (Disconnectors, Earth switches, Fast acting earth switches) are not matching with the Single line diagram provided. Please confirm the quantities as below. Line Bays - 2 Bus Iso with common E/S, 1 CB, 1 Line Iso with E/S & one Fast Earth Switch Trafo Bay - 2 Bus Iso with common E/S, 1 CB, 1 Trafo Iso with E/S Buscoupler - 2 Bus Iso with individual E/S, 1 CB, Bus PT with Bus E/S	As per revised SLD
22	Single line diagram	Price Schedule (LOT-1) 145kV & 33 GIS bay equipment	As per the referred SLD, Voltage transformers are shown in all the bays of 145kV & 33kV GIS (Feeder, Transformer, except buscoupler / bus sectionaliser) where as the same is not included in the description of bay equipment in price schedule. Please confirm the requirement of VTs.	As per revised SLD
23	Scope	Price Schedule (LOT-1) - item no. 8	As per BPS, schedule -2 & 4, Rating of LT Station transformer is 315kVA 33/0.433kV whereas in specification & in price schedule -1 it is given as 250kVA 33/0.433kV. Please confirm the rating of LT Transformer.	250 kVA 33/0.433 kV

24	Scope	Price Schedule (LOT-1) - item no. 12	As per BPS, Emergency Lighting distribution board is considered in AC system. Kindly confirm the source for AC Emergency supply of AC distribution board. DG set to be included? If so, please let us know the rating	Emergency lighting system in D.C
25	Scope	Price Schedule (LOT-1) - item no. 14	As per BPS, supply of 33kV gantry accessories of 33kV Outgoing feeders 4nos. is mentioned whereas there is no outdoor equipment is considered in 33kV Line bays (Tender Layout as well as BPS). Please furnish details of 33kV gantry accessories.	Out door 33kV gantry as per Price schedule sl no.15
26	Scope	SLD	Incoming Feeder details for LT Station transformer is not provided. Please confirm whether it shall be from 33kV GIS or SEB supply. If it is from SEB supply, kindly confirm the size and length of HT cables between SEB point and LT Station. If it is from the 33kV GIS, kindly identify the feeder in 33kV GIS.	from 33 kV gantry of Autonagar S/s
27	Scope		As per the tender equipment layout drawing, EOT crane for 33kV Switchgear has been indicated, But the same is not mentioned in scope of supply as well as in Bid price schedule. Please confirm the requirement of EOT crane with capacity for 33kV Switchgear room. Since this 33kV board is will be similar to floor mount panels, EOT crane need not be provided. Please confirm the requirement.	Both are in same floor
28	Scope		As per tender equipment layout drawing, LAs are indicated on HV\LV side of transformers whereas in SLD and in BPS, LA is not included. Kindly confirm the requirement of LAs.	Included in revised price schedule
29	Scope		Please confirm the type of fire protection system (Nitrogen Injection, High Velocity Water Spray system) with specification for Transformers and Buildings, and request to include the same in Bid price schedule.	As per standard
30	Scope		Please confirm the requirement of Ventilation system with specification for the GIS building.	As per standard
31	Scope		Please confirm the requirement of air-conditioning system with specification for the control building.	As per standard
32	Scope	-	We are not considering any 48V Distribution boards & 48V Battery & charger. Since, there is no PLCC system available in substation. Please confirm.	ok

33	Technical Specification 132/33kV GIS	GIS - Cl.1 (page 5 of 49)	As per the referred clause,33kV system Fault current rating shall be 31.5kA for 3sec whereas, in BPS 33kV GIS equipment are considered with 25kA for 3sec fault current. Kindly confirm the fault level of 33kV equipment.	25KA for 3 sec
34	Technical Specification 132/33kV GIS	GIS - Cl.3.2.10.2 (page 22 of 49)	As per BPS schedule -1 item no. 2.4, power cable connecting from 33kV GIS system to power transformer is 630sq.mm Cu. whereas in Tech. spec it is mentioned as 800sq.mm Cu cable. Please confirm the size of cable for interconnection of Transformer and 33kV GIS. Also please confirm the no of runs per phase	630sq.mm Cu
35	Technical Specification 132/33kV GIS	GIS - Cl.3.2.10.2 (page 22 of 49)	As per the referred clause, cable connecting from 33kV GIS cubicle to 33kV side of the station transformer is 3C x 95sq,mm Cu XLPE is mentioned whereas the same is not considered in BPS. And also feeder for connecting station LT transformer is not identified in 33kV GIS. Please confirm the feeder in 33kV GIS and include the 33kV HT cable in price schedule.	3C x 95sq,mm Cu XLPE included in BPS Clarified in Sl. No.9 about station trf bay
36	Technical Specification 132/33kV GIS	33kV GIS - Cl.6 (page 33 of 49)	As per the referred clause, 33kV GIS system scheme shall be with Double Bus bar (One bus shall be as Main & the other shall be Transfer Bus) but as per the tender SLD, it shown as Single main bus bar arrangement. Please confirm type of bus configuration for 33kV GIS.	As per revised SLD
37	Specification - 220V & 48V battery	-	Please confirm and include the Quantity of Batteries (220V & 48V) in Price schedule. Rating of Batteries has been considered as per the referred specification.	Included in revised price schedule
38	Scope	EHV Cables	We presume that the supply and Erection of incoming/ outgoing 33kVcables along with outdoor terminations from 33kV GIS to other substation is not in the present scope. Please confirm.	not applicable
39	Scope	Price Schedule (LOT-1) Item no 1	We presume that skid mounted type Local control cubicle as part of GIS is acceptable for 132kV GIS. Please confirm.	As per tech. Spec
40	Scope	Price Schedule (LOT-1) Item no 10	As per the referred clause, only 132kV protection panels are mentioned. Please include line item for 33kV protection panels also.	As per BPS
41	Scope	Price Schedule (LOT-1) Item no 10 ,11	As per the referred clause, protection panel is mentioned in both the clauses. We presume that item no 10 includes control and protection panel for 132kV side only and item no 11 includes substation automation system for 132kV side and 33kV side only. Please confirm.	As per BPS

42	Scope	Price Schedule (LOT-1) Item no 11	As per the referred clause, the quantity of substation protection and automation system is indicated as 8 nos. we understand that substation automation system is to be considered for 132kV & 33kV side, then the quantity shall be 1 set comprising of 5 bays for 132kV side and 8 bays for 33kV side. Please confirm our understanding.	As per BPS
43	Scope	Price Schedule (LOT-1) Item no 11	As per the referred clause, 1 no of station transformer bay is mentioned. We presume that total number of feeder bays for 33kV side is 5 nos. inclusive of the station transformer bay(4 line bays + 1 Station Transformer bay). Kindly confirm.	As per SLD revised
44	Technical Specification for 33kV SF6 Gas Insulated Switchgear	Cl.no.8.5.1.g.1	As per the referred clause, it is mentioned that Relays for various control, monitoring and blocking functions of a particular circuit element shall be installed in associated local control panel. Accordingly we presume that local control cubicle shall be panel mounted type with only auxiliary relays for local control and monitoring function . Protection panels are not part of GIS and the shall be kept separately in the control room as indicated in the layout. Please confirm.	As per tech. Spec
45	Technical Specification for 33kV SF6 Gas Insulated Switchgear	General	We understand that for 33 kV GIS single panel for two bays is acceptable (Relays & Controls of two bays will be installed in a single Panel). Please confirm.	Ok
46	Technical Specification for 33kV SF6 Gas Insulated Switchgear	General	We understand that busbar protection for 33kV GIS is not envisaged in the present scope. Please confirm.	Ok
47	Technical Specification for 33kV SF6 Gas Insulated Switchgear	Cl.no.5.2	As per the referred clause, design ambient temperature considered for continuous rating of the equipment shall be 50deg.C whereas technical particulars for 132kV & 33kV GIS (page 7 & 47 of 49)bus bar rating is considered at 40deg.C ambient temperature. Please confirm the ambient temp. for equipment ratings.	As per tech. Spec
48	Single Line Diagram	Bus Bar Scheme	As per the SLD and supply scope, the scheme for 132kV GIS is mentioned as main & transfer bus scheme. But as per the scheme indicated in the SLD and list of equipment specified in price schedule is for double main scheme, also, the price schedule indicates both the bus bar of same rating. Hence we presume that the scheme is double main scheme for 132kV GIS.	As per revised SLD

49	Scope of Supply	Cl. No.A.16	OPGW is not required as OFC cable will satisfy the requirement for SCADA. Please check the requirement of the same.	Ok
50	Single Line Diagram	33kV SLD	As per the SLD, for single main scheme, line side disconnecter is indicated however line side disconnecter is not required for single main scheme. Hence it neednot to be considered. Please confirm.	As per revised SLD
51	33kV Isolators	-	We presume that 33kV surge arrestors shall only required on 33kV side of Transformer and is not required on 33kV outgoing feeder end. Please confirm.	As per BPS
52	Part II Technical Specification for 132/33 kV GIS	Cl No.2.X and Cl No.3.1	As per Cl no.2.X, Enclosure shall be made up of Aluminum alloy and as per Cl No.3.1 Enclosure shall be made of Aluminum alloy or Steel Enclosures.We understand that both Aluminum alloy as well as Steel enclosures are acceptable.Kindly confirm	As per tech. Spec
53	Part II Technical Specification for 132/33 kV GIS	Cl No.3.1.14 and 3.1.9	As per Cl no.3.1.4 ,the gas loss of the switchgear shall be in no case higher than 0.5% per Year however as per Cl No.3.1.9 it is 0.2 % per Year.Kindly clarify.	0.5% per Year
54	Part II Technical Specification for 132/33 kV GIS	Cl no.3.1.23	Kindly provide separate Line item in Price schedules for quoting Special tools.	As per BPS
55	Part II Technical Specification for 132/33 kV GIS	Cl No.3.2.13 and Cl No.3.2.24	Referring to each clause Spare list mentioned is different.Kindly clarify which list to be followed. Also please include separate line item for Tools and Spares in Price schedule.	As per BPS
56	Part II Technical Specification for 132/33 kV GIS	Cl No.3.2.23 SI No.3	Testing equipment will be made available at site by GIS manufacturer however after Testing same will be taken back.Testing equipment wont come under scope of supply.Kindly confirm.	OK
II	Queries for Lot-2 packages (132kV Underground cabling with bays in respective Grid S/S)			

57			The UG XLPE covered under plant and equipment i.e., 132kV 630sq.mm and 800sq.mm sizes; in line with the practice and provision of the related IEC specifications, type test reports for 132kV or higher voltage grades for UG XLPE cables on BOQ sizes or above which are within last 5 years reckoned from the due date of submission of bid are requested to be accepted to meet the minimum guaranteed technical particulars prescribed by the employer. However, in case the type test reports furnished are not for the quoted cable but for the cable with higher voltage class and / or higher conductor size, then type test reports shall be submitted for the quoted cable before offer of inspection of cable. Request acceptance of the same.	Submission of type test report for UG XLPE type test report of same voltage class and same or higher cable size as per the GTP shall be acceptable.
58	EHV cable - 132kV	Price Schedule (LOT-2) - item no.1.1 & 1.2	We presume that the supply quantity of 132kV EHV cable single core 800sq.mm & 630sq.mm considered in price schedule under referred item nos shall also includes quantity of cables used for bending,looping,jointing, wastage, Testing of cable (during routine/factory testing) etc. Hence, Payment shall be made for cables used for all the above purpose also. Please confirm.	ok
59	Part I Section 3	CI No1.1.2	As per referred clause UG XLPE cables should have been type tested from an Internationally accredited Laboratory (KEMA,EDF,Hydra-Quebec, CESI, CPRI, IPH, KERI)within the last five years .	ok
	Part II ,Technical Specification for 132 kV XLPE Insulated power cable	CI No.1.6.1	Type test report should not be more than seven years old and should be carried out in accordance with ISS-7098/IEC-871 from Govt./Govt approved test house.	Five years
	Part II,Technical Specification for Laying ,Testing and commissioning of 132 kV XLPE Underground Power cables	CI No.7.1.0.5	The cable and cable accessories intended to be used for this work shall be,i)Type tested within last ten (10) years period prior to the period of bid opening.	Five years
			Validity of type test certificate is mentioned different in different part of Tender document,same is regarding the Laboratories where test is to be conducted.We are consolidating what we understood from above clauses.Cables and Cable accessories should be type tested as per IEC specification/KEMA Specification from any Govt./Govt, approved test house within last ten (10) years period prior to the period of bid opening.Kindly confirm that our understanding is correct.	Five years

60	Part II, Technical Specification for 132 kV Hybrid Switch Gear	CI No.6	From the referred clause we understand that for Hybrid GIS all Type test should be carried out in accordance with IEC and test reports shall not be more than five years from the date of bid opening. Kindly confirm that there is no specific requirement in terms of laboratory where type test is to be conducted.	Type test of equipment used is mandatory
61	Part III Price Schedules	SL No.1.1 'Schedule No 4	We understand Quantity given for "Transporting, Storing, Laying, Testing and Commissioning of 132 kV Cables" is of total circuit Length . (i.e. one feeder of 3 cables, one each for R, Y and B Phase). Kindly confirm that our understanding is correct.	Total Cable length = 3 x single core cables length (one ckt KM)
62	Part III Price Schedules	SL No.1.2 'Schedule No 4	One spare HDPE pipe shall be laid for each feeder of 3 cables as per CI No.1.1.7 of 'Technical Specification for Laying, Testing and Commissioning of Cables'. We understand that the given quantity of 5.2 Kms Micro tunnelling (HDD method) is for each feeder of 3 cables plus spare Pipe for the same. Kindly confirm.	Ok
62	Part III Price Schedules	SL No.1.3, 1.4 'Schedule No 4	The quantity of Straight through Jointing given in the price schedules appears to be very low, i.e. one third of actual Quantity. Please clarify and confirm	Revised price schedule
63	Part III Price Schedules	Lot 2 Sl no.1.10	We understand that extension of existing Bus bar to the location where Hybrid GIS is located is not under the present scope. Kindly confirm	Extension of busbar is required
63	Scope	Price Schedule (LOT-2) - item no. 1.1	As per BPS, supply of single core 800sq.mm & 630sq.mm, copper conductor, XLPE insulated 132kV underground cable quantity is mentioned. Please furnish the distance between substation to substation for estimation of straight through joints. As per Autonagar SLD, we presume that the incoming cables are 630sq.mm, XLPE cable.	from Narendrapur-Autonagar - 14 ckt KM & Autonagar- Berhampur - ckt 9 KM (630Sqmm), Narendrapur-Chhatrapur - 13 ckt KM & Narendrapur - Berhampur - ckt 16 KM (800Sqmm)
64	Scope	Price Schedule (LOT-2) - item no. 1.1	As per BPS, supply of single core 800sq.mm & 630sq.mm, copper conductor, XLPE insulated 132kV underground cable quantity is mentioned. Please confirm substation wise size of 132kV cable for laying between Autonagar to Berhampur, Autonagar to Narendrapur, Narendrapur to Chhatrapur, Narendrapur to Berhampur.	as per Sl no-1
64	Scope of supply - Lot-2-detailed scope - sl.no. iv	Price Schedule (LOT-2) - item no. 1.9 & 1.10	As per BPS and referred scope of supply we understand that 3nos. of 132kV bay extension from 220/132/33kV SS Narendrapur (AIS) & 01no. of 132kV bay extension from 132/33kV S/S Chhatrapur (AIS) & 2 Nos. 132/33kV S/S Berhampur (HGIS) is in present scope. Please provide the SLD and GA drawings for these substations for estimation of main equipment	SLD of these substations are available in OPTCL websites

65	Scope of supply - cl.2 Specification	Lot-2, sl.no.2	As mentioned in referred clause, Please provide Technical specification for 132kV Cable jointing kits (Annexure-T-II).	Revised price schedule
65	Scope	-	For LOT -2 Package, Outdoor cable terminations kit for 132kV underground cables (800sq.mm & 630sq.mm cables) is not considered in BPS. Please confirm the scope of supply.	Revised price schedule
66	Scope	Price Schedule (LOT-2) Item no 1.9	As per the referred clause, we presume that Control & relay panels shall be provided for 4 number of AIS bay extension (Narendrapur S/S- 3 AIS bays and Chhatrapur S/S- 1 AIS bay). Please confirm our understanding.	for all
66	EHV cable - 132kV	132kV UG cables Cl.no. 1.5.6	We understood from the referred clause that the cable shall have metallic sheath of corrugated Al or corrugated Cu. Hence we understood that there is no separate Armour for the proposed cable and the armour in the specification refers to Sheath only. Please confirm.	corrugated Al
67	EHV cable - 132kV	132kV UG cables Cl.no. 1.3.1	The offered cable shall be with Dry cured cross linked polyethylene (XLPE) insulation. Please confirm.	Ok
67	EHV cable - 132kV	132kV UG cables Standard Technical particulars	We presume that the parameters specified for the cables are for reference only and actual parameters shall be varied as per the tested design of cable manufacturer. Please confirm.	As per STP
68	EHV cable - 132kV	Price Schedule (LOT-2) - item no.1.7	We presume that quantity considered for HDPE pipe under referred item in Bid price schedule shall also includes spare HDPE pipe quantity as per cl.no.1.1.9. Please confirm	Yes
68	EHV cable - 132kV	132kV UG cables Part II Cl. 1.1.11 page 12	Please furnish maximum spacing between details of cable pulling chambers and also request to\ include the same in Bid price schedule.	Pulling chamber not required
69	EHV cable - 132kV	Cable jointing chamber	Please include cable jointing chamber in Bid price schedule.	Revised price schedule
69	EHV cable - 132kV	132kV UG cables Part II Cl. 1.1.4 page 12	As per referred clause, laying of EHV cable is considered in 7 different types (Case-1 to Case-7). Please provide the typical drawings for the above cases.	the method specified in Tech. Spec

70	EHV cable - 132kV	132kV UG cables Part II Cl. 1.1.5 page 11	As per referred clause, depth of buried trench is given as at least 1.8m, We wish to inform that in general trefoil formation 1.5m depth is sufficient. Please confirm 1.5m is acceptable for this package.	1.5 mt
71	EHV cable - 132kV	132kV UG cables Part II Cl. 2.2.2 page 13	As per the referred clause it is required to consider Link boxes (with SVL & without SVL), hence request to include the above items as line items in Bid price schedule.	Not applicable
72	EHV cable - 132kV	Price Schedule (LOT- 2)	It is required to earth the Link Boxes with GI flats and dedicated earth electrodes, hence request to include the item " Earthing material for Link boxes" in Bid price schedule.	not applicable
71	EHV cable - 132kV	General	We consider to have Road crossing of EHV cables in 3 Pipes laid in trefoil formation and one cable per pipe. For this, we shall use smaller pipe size (250 or 200mm dia as required), Please confirm.	3 pipes for trefoil
72	EHV cable - 132kV	General	Please furnish the details of bonding cable / return conductor (size, conductor material, Voltage rating etc.) for EHV cable bonding and also request to include the same in Bid price schedule as line item.	not applicable
73	EHV cable - 132kV	General	Please confirm the requirement of Return conductor for 132kV EHV cable sheath bonding/ earthing. If require please specify the size, rating of return conductor and also include the same in Bid price schedule.	not applicable
74	EHV cable - 132kV	Routine/ Factory testing Cl.no. 7.3.6	As the short circuit design of the offered cable has already been validated with type testing and hence we don't recommend to have Short circuit test as part of routine/factory testing. However we shall submit the type test report of the similar/ higher cable. If still OPTCL insists for short circuit testing, the same can be performed at any laboratory approved by the Country of Origin / Country at which the lab is located. Please confirm.	Ok
75	EHV cable - 132kV	Type Tests Cl.no. 7.1.0.1.1	We shall submit Type test reports for the offered 132kV cable and accessories conducted in approved by the Country of Origin / Country at which the lab is located. Please confirm.	as specified in Bid document
76		Clause No. 1.5.3.1 of Revised Technical specification for UG cable	Voltage gradient in the rated working condition shall be a) Equal or less than 6.0 KV/mm at the level of internal semiconductor. b) Equal or less than 3.0 KV/mm at the level of external semiconductor	The Voltage gradient in the Rated working condition for 630 sq mm & 800 sq mm at the Internal & External semiconductor level Calculated as per the formula

a.	3 nos. AIS bay Extn. at 220/132/33kV Narendrapur S/S			
77	Scope of supply - Lot-2-detailed scope - sl.no. iv	Price Schedule (LOT-2) - item no. 1.9		As per standard
78	Scope	Price Schedule (LOT-2) Item no 1.9	As per the referred clause, please confirm the scope of work for augmentation of existing bus bar protection for the extension bays for Narendrapur S/S. i) Only to provide CT inputs and take out the connection for trip relays OR ii) Only to provide additional trip relays OR iii) Modify/ Adding additional components in the existing relay. Please confirm the scope.	As per standard
79	Scope	Price Schedule (LOT-2) Item no 1.9	As per the referred clause, augmentation of the existing SAS is not mentioned for AIS bay extension at Narendrapur substation. Hence we understand that SAS augmentation is not in the present Scope. Please confirm.	Ok
80	Control & Relay Panels	General	Please provide the existing make, type and model number of bus bar protection of Narendrapur Substation for augmentation .	As per standard
81	1 no. AIS bay Extn. at 132/33kV Chhatrapur S/S			
82	Scope of supply - Lot-2-detailed scope - sl.no. iv	Price Schedule (LOT-2) - item no. 1.9	Please provide existing busbar protection details of Chhatrapur substations for integration of extension bays	As per standard
83	Scope	-	We presumed that the outgoing AC & DC feeders of LT Switchgear for extension bays of Chhatrapur substations is already considered in existing LT Panels itself. Please confirm.	Ok
84	Scope	Price Schedule (LOT-2) Item no 1.9	As per the referred clause, please confirm the scope of work for augmentation of existing bus bar protection for the extension bays for Chatrapur S/S. i) Only to provide CT inputs and take out the connection for trip relays OR ii) Only to provide additional trip relays OR iii) Modify/ Adding additional components in the existing relay. Please confirm the scope.	As per standard

85	Scope	Price Schedule (LOT-2) Item no 1.9	As per the referred clause, augmentation of the existing SAS is not mentioned for AIS bay extension at Chhatrapur substation. Hence we understand that SAS augmentation is not under the present scope. Please confirm.	Ok
86	Control & Relay Panels	General	Please provide the existing make, type and model number of bus bar protection of Chhatrapur Substation for augmentation .	As per standard
c.	2 nos. Hybrid GIS bay Extn. at 132/33kV Berhampur S/S			
87	Scope of supply - Lot-2-detailed scope - sl.no. iv	Price Schedule (LOT-2) - item no. 1.10	Please provide existing busbar protection details of Berhampur Hybrid substations for integration of extension bays	As per standard
88	Scope	-	We presumed that the outgoing AC & DC feeders of LT Switchgear for extension bays of Berhampur Hybrid substations is already considered in existing LT Panels itself. Please confirm.	Ok
89	Scope	Price Schedule (LOT-2) Item no 1.10	As per the referred clause, please confirm the scope of work for augmentation of existing bus bar protection for the extension bays for Berhampur S/S. i) Only to provide CT inputs and take out the connection for trip relays OR ii) Only to provide additional trip relays OR iii) Modify/ Adding additional components in the existing relay. Please confirm the scope.	As per standard
90	Scope	Price Schedule (LOT-2) Item no 1.10	As per the referred clause, augmentation of the existing SAS is not mentioned for 132kV Hybrid GIS bay extension at Berhampur substation. Hence we understand that SAS augmentation is not under the present scope. Please confirm.	Ok
91	Control & Relay Panels	General	Please provide the existing make, type and model number of bus bar protection of Berhampur Substation for augmentation .	As per standard
92	General Queries			
93	General	EHV Cable laying inside the switchyard	We consider the laying of EHV & HV cables (132kV & 33kV) inside the switchyard from Transformer to GIS shall be buried with soil back filling. Please confirm.	through standard RCC trench

94	General	-	Quantities mentioned in price schedule / supply of materials are indicative. Any change in the same shall be paid at unit rate without any ceiling in Quantity proposed and used. Please confirm.	Ok
95	General - Earthing	-	Please furnish the value of Soil resistivity / Spacing between earthing grids in order to estimate the main earth mat quantity.	Bidder scope
96	General	415V LT AC SLD	Please furnish the tentative Single line diagram for 415V LT distribution system.	Bidder scope
97	General - Lighting Design	-	Indoor and outdoor illumination design shall be as per Industrial Practice / Standards. Please confirm.	Ok
98	General	GIS	GIS pressure relief devices will be provided in GIS compartments as per GIS manufacturer standard practice. please confirm.	Ok
99	General	GIS	Earthing system shall be designed in GIS hall as per manufacturer recommendations. please confirm.	As per standard
Technical -Civil				
100	General	-	We request you to kindly furnish the following information/drawings, as Civil works is a lumpsum item - 1. Overall plot area / shape including line directions 2. Plot plan drawings 3. Existing ground profile (if available)	up loaded

101	Sch of Rates and prices	Schedule 4 - Item 18	<p>We understand that the following Civil works will be payable on Lumpsum basis for the GIS SS at Autonagar -</p> <ol style="list-style-type: none"> 1. Foundations for transformers, gantries and equipment support columns 2. Cable trenches 3. Drains upto SS fenced area (as per tender drg no. LFA-2013-14) with rain water harvesting provision 4. Earthmat and Site finishing including PCC laying and stone spreading within fenced area as per tender drg. LFA-2013-14 5. Site grading to attain FGL 6. Firewall (if any reqd.) 7. Switchyard roads as per tender drg LFA-2013-14 8. Boundary wall 9. Soil investigation 10. Gardening / Landscapping <p>Kindly confirm our understanding. Also please include seperate Line items for the above mentioned in the price schedule.</p>	As per price schedule
102			<p>In the referred Substation layout drawings, the following are not shown and hence understood to be not covered in present scope of work -</p> <ol style="list-style-type: none"> 1. Security building and watch towers 2. Store shed (Incl as part of GIS building) <p>Kindly confirm.</p>	It is covered ,point 1&2 included
103	Sec E6 - Civil Works	Cl. 10	<p>As per the referred clauses of Tech Spec, the roads shall be 7000/3750mm wide black top roads. However, as per the tender drawings, only 5000/2000mm wide roads are shown.</p> <p>We shall consider 5000/2000mm wide Bituminous roads in line with the tender drg. Kindly confirm.</p>	ok
104	Sec E6 - Civil Works	13.1 14.16	<p>Whereas Cl. 13 calls for nominal 1:1.5:3 mix for M20, Cl. 14 calls for controlled mix with mix design as per IS codes. We presume Designed Mix conforming to IS 456 is to be adopted. Kindly confirm.</p>	ok
105	Tech Spec		<p>Since no specifications are mentioned for switchyard structures (equipment support structures and gantries), we propose the following, in line with requirements of other power utility companies -</p> <ol style="list-style-type: none"> 1. Lattice Steel structures conforming to E 250A grade of IS 2062, with galvanisation coating og 610g/sq.m 2. Factor of safety of 1.02 against yield. 3. Loading conditions (NC + SCF) and (NC + Wind) 	as per optcl desgn

106	Sec E6 - Civil Works	16 - 1.4	Since control room is already shown inside the GIS building itself, we presume that there is no further need for a separate CRB. Kindly confirm.	as per drawing
107	Tender drg - No. LFA-2013-14		In line with referred tender drawings and the schedule of prices, no Housing Quarters is considered in present scope. Kindly confirm.	ok
108	Sch of Rates and prices	-	No item is given for outdoor steel structures such as cable termination structures, Lightning arrestors, etc. We request you to add an item for the same.	As per price schedule
109	Sch of Rates and prices	Schedule 4 - Item 1.09, 1.10	The referred item of Price schedule refers only to civil foundations of the mentioned equipments. Kindly furnish the founding depth of existing SS foundations so as to estimate quantities for present scope.	Bidder scope
110	Sch of Rates and prices	Schedule 4 - Item 1.09, 1.10	We presume that the land area required for the required bay extensions at Chhatarpur, Berhampur and Narendrapur is graded and that open pit foundations and site finishing (PCC topping and stone spreading) of these bays is in present scope. Kindly confirm.	as per site requirement
111	Sch of Rates and prices	Schedule 4 - Item 1.09, 1.10	We presume that only equipment support structures and their foundations is in present scope and that other ancillaries such as Cable trenches, drains, fencing, earthmat, etc are not required in present scope at the above mentioned 3 locations. Kindly confirm.	as per site requirement
112	General		Pls confirm whether soil investigation will be required to be done at the existing substations or whether nominal value of SBC can be considered for design based on drawings of existing foundations, supplied by the owner.	Bidder scope
113	Tech. Spec - Pg. 11/12	Part II, Section 1 - Specification for laying of Cables 1.1.5	Case2 of cable laying under the referred clause calls for backfilling with compacted bulders with bitumen/jelly. We understand that this is applicable only in locations where the road is cut. At other locations such as shoulders/footpath, we understand that the same has to be restored to previous condition. Kindly confirm	as per site requirement
114	Tech. Spec - Pg. 11/12	Part II, Section 1 - Specification for laying of Cables 1.1.7/1.1.9	In locations of trenchless piping, the referred clause calls for one spare pipe per circuit. However, in locations where two or more circuits are being laid side by side in the same trench, we propose to give a common spare pipe. Kindly confirm.	ok

115	Sch of Rates and prices	Schedule 1 - Item 1.07	We understand that the spare pipe laid as per the above clause shall also be payable under referred clause of BPS. Pls confirm.	ok
116	Section 6 - Employer's Requirements, LOT-2: Scope of Supply, Volume 1		1. 220/132/33 KV S/S Narendrapur - 3 Bays Extension (AIS) 2. 132/33 KV S/S Chatrapur - 1 Bay Extension (AIS) Kindly confirm the existing busbar system for the above two substations i.e. Single Bus or Double Busbar system.	Main & Transfer Bus system
117	Corrigendum-6, Technical Specification For 132kV UG Cable, PART II, clause no. 1.1.5 & 132kV SINGLE/DOUBLE CIRCUIT LAYING ARRANGEMENT DRAWING		The dimensions for the trench in cable laying specs (1.8m x 1.1m) is different from the dimensions mentioned in the cable laying drawing (1.05m x 0.95/0.7). Kindly clarify the dimensions to be followed for single circuit & double circuit laying arrangement.	revised drawing uploaded
118	Corrigendum - 5	Revised Price schedule 1st July 2014 for Quoting (Excel format).	Revised Price schedule (Excel format) is not available on website. Pl upload the same.	Refer Re-Revised price schedule
119			As per the Revised Price Schedule Line item No.11.4 & 11.5, Bus Bar Protection Panel requirement is mentioned. However as per OPTCL specification Clause No. 7.6 (Page No 31 of 94) & also Clause No. 11.5 (Sub Point 9 & 10) (Page No. 47 of 94) there is no requirement for Bus Bar Protection for 132kV Bus Bar. We request you to confirm as to why Busbar Protection line item has been added in the revised Price Bid when the specification does not call for it. Also a standard OPTCL practice followed in all OPTCL tenders Bus Bar Protection is not offered for 132kV Bus Bar.	As this is GIS substation, busbar protection is mandatory
120			With references to your pre bid replies for Autonagar 132 GIS SS (Lot-1) many points like Point No 51, 52, 55, 101 etc highlights about revised SLD. If there are any revised SLD is issued for Autonagar 132 GIS SS (Lot-1) or it refers to Lot-2. Please confirm.	Revised SLD uploaded

121			SI No.101 states Revised SLD is enclosed but we didn't find one. The available SLD does not show any future bays. Kindly get a clarity on the requirement of provision for future bays in SAS.	Revised SLD uploaded
122			With Reference to SI No.113 of Pre bid Replies - Since Cable feeders are present we are proposing differential Protection scheme. Hence we need a confirmation from your side whether we need to supply only loose relays for remote end or Panel for remote end.	Panel with relays
123			Revised Price Schedule SI No. 11.1 calls for Monitoring & Auxiliary system for 220 KV & 33kV systems. Here we have only 132 KV & 33kV Systems.We assume this is a typographical error. However we request OPTCL to confirm the same.	OK
124			Revised Price Schedule SI. No 11.2 & 11.3 calls for Main 1 & Main 2 Protection philosophy whereas the specification for 132kV calls for Main & Back up Protection. We assume this is a typographical error. However we request OPTCL to confirm the same.	OK
125			Revised Price Schedule SI No. 8 calls for Station Transformer requirement. Is there a requirement of CRP for Station Transformer? Please note no line item in the Price Schedule is mentioned for Station Transformer CRP. Please confirm.	No CRP for Station transformer
126			In Since there is no line item for Spares in the Price Schedule we assume there is no requirement for spares in this package. Please confirm.	AS per Price schdule
127			Revised Price Schedule only calls for Plant & mandatory spares. No where it is showing for Supply of equipments. Please elaborate.	AS mentioned in Price schdule that is ADB's format(Plant & Mandatory Spare same as Equipment)