

Title	:	Pre Bid Clarifications -I
Employer	:	REC Transmission Projects Company Limited
Project	:	Name of Work: Design, Manufacturing, Supply, Erection, Testing & Commissioning of below mentioned Substations and bay on Turnkey Basis associated with Strengthening of Transmission System of JKPDD under PMDP Scheme-15:- i) 220/33 kV GIS Substation at Diskit (Nubra) ii) 220/33 kV GIS Substation at Padum (Zanskar) iii) 220kV Line Bay at PGCIL's existing GIS Substation at Phyang iv) 220kV Line Bay at PGCIL's existing GIS Substation at Drass
Tender Ref No.	:	RECTPCL/PIA/JKPDD/SS -03

Pre Bid Clarifications

Dt. 02.01.2020

S. No.	Volume/ Section/ Clause No./ Page No.	Specification Requirement	Bidders Query/Comments	Employers Clarification
1.	Section Project, Civil Works, Clause No. 4.2.6 , (xxiii)	Geotechnical / Soil Investigation including earth resistivity measurement.	The present condition at all the 4 sites (Phyang, Drass, Padum and Diskit) is that the land is covered with a thick layer of snow. The bidder will not be able to carry out the soil investigation, Contour survey and Soil resistivity test. Therefore, we request you to kindly provide the soil investigation reports, Contour Survey and Soil Resistivity test reports conducted/Available with you. If the same is not conducted/available with you, we request you to kindly quantify and add the excavation item with the detailed quantities of the particular soil type (i.e. Hard rock, soft rock, hard soil, normal soil etc.) in the BPS to be done at all the sites. As the soil testing cannot be conducted, we cannot envisage whether Piling is required or not. So, We request you to kindly quantify and add the Piling item with the detailed quantities for all the four sites.	The bidder is to carry out Soil Investigations as per Tender TS and BPS. Suitable quantity of excavation of different Soil Types is being included in BPS vide Amendment 4 . Piling is not envisaged.
2.	Section Project , Clause	Extension work of 220KV GIS	As the existing 220KV GIS at Phyang and	RECTPCL will only share drawing

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	No. 4.3 220KV GIS Line Bay Extension at Phyang Clause No. 4.4 220KV GIS Line Bay Extension at Drass.	Line Bay at Phyang and Drass	Drass is of Hyosung make, We understand that M/s RECTPCL will arrange a Hyosung Service engineer for both the sites. The bidder shall open the Bus Bar chamber in presence of Hyosung Service Engineer to take the measurements for the design of the adapter chamber. Hyosung Service engineer shall replace all the worn out items (i.e. O -Rings, Gaskets etc.). We understand that the Gas Evacuation Plant and process to evacuate the gas shall be the responsibility of M/S RECTPCL/ Hyosung Service Engineer. Also, The refilling of SF6 gas shall be the responsibility of M/s RECTPCL / Hyosung. We also request you to provide the following Drawings for the Hyosung GIS for both Phyang and Drass: 1.) GA drawings showing 220KV GIS bays, Wall Bushings, Bus Ducts 2.) SLD 3.) Layout of 220KV GIS 4.) Technical Parameters/GTP for 220KV GIS 5.) LCC Panel drawings 6.) Section/Plan for 220KV GIS Bay. We	of End piece module with extension link. RECTPCL/JKPDD will only assist in arranging services of Hyosung service engineer in case Successful bidder so desires. All other responsibilities will be of successful bidder. GA drawings of existing GIS substations at Drass & Phyang are being issued vide Amendment 4 . All other drawings shall be shared with successful bidder. Bidder has to take necessary precautions to carry out extension work in presence of Hyosung Engineer. All tools and Tackles to carry out the job has to be arranged by successful bidder.

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			also understand that the bidder is not responsible for any warranty for the existing 220KV GIS system at Drass and Phyang. Every work of the 220KV GIS extension bays at Drass and Phyang shall be done in the presence of M/S RETPCL engineer and Hyosung Service engineer. All the necessary tools/tackles required to carry out the job shall also be in the scope of the end user/hyosung. Also, we might have to pay the site visits at the extension sites multiple times, so we would be needing your support and shutdown if required can be planned mutually.	RECTPCL will extend necessary support in arranging site visit.
3.	General	Requirement of the GA Drawings and SLD for existing 220KV GIS bays	There is a requirement in the tender to extend the existing HYOSUNG MAKE 220KV GIS bays at Phyang and Drass. We therefore require the GA drawings, SLD, LCC panel drawings of the HYOSUNG MAKE GIS.	Bidders are requested to refer Amendment 4.
4.	Section Project, Civil Works, Clause No. 4.2.6 , (xxiii)	Geotechnical / Soil Investigation including earth resistivity measurement.	We understand that the soil investigation/soil resistivity reports for the existing station shall be available with M/s RECTPCL. We request you to share the same with the bidder.	Bidders are requested to arrange by themselves, however in order to address the issue of Resistivity, suitable Amendment is being issued vide Amendment 4.
5.	General	SLD and Layouts for the Diskit	We understand that the layouts and SLD for	Bidders are requested to refer

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		and Padum sites	the Padum and Diskit sites are not provided in the tender documents. Request you to share the same.	Amendment 4.
6.	General	SLD and Layouts for the Phyang and Drass sites	We understand that the layouts and SLD for the Phyang and Drass sites are not provided in the tender documents. Request you to share the same.	Bidders are requested to refer Amendment 4.
7.	General	PEB Building Drawings for the Diskit, Drass, Phyang and Padum sites	We understand that the PEB building drawings for the Diskit and Padum sites is not provided along with the tender documents. We request you to share the same with us. Also, the PEB building drawings for the existing Phyang and Drass sites are not available in the tender documents. Request you to kindly share the same as there is some extension work for the PEB building at Drass site.	PEB building, architecture, design for Diskit & Padum sites are as per Technical Specifications and in scope of successful Bidder Drawings of existing PEB building at Phyang & Drass GIS is being shared vide Amendment 4.
8.	Annexure - VII (Technical Particulars / Parameters of Transformers) ((220/√3) / (33/√3) kV 1-Phase Power Transformer)	(Technical Particulars / Parameters of Transformers) ((220/√3) / (33/√3) kV 1-Phase Power Transformer)	The value of the maximum permissible transformer losses is not provided in the technical particulars/Parameters of transformers. We request you to kindly provide the value of maximum permissible losses of Load Loss, No-Load Loss and Auxiliary Losses.	Bid Conditions will prevail.
9.	Annexure - VIII	(Technical Particulars /	The value of the maximum permissible	Bid Conditions will prevail.

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	(Technical Particulars / Parameters of Bus Reactors)	Parameters of Bus Reactors)	transformer losses is not provided in the technical particulars/Parameters of Bus Reactors. We request you to kindly provide the value of maximum permissible losses of Load Loss, No-Load Loss and Auxiliary Losses.	However, bidders are requested to refer Amendment 4 in regards to the Capitalization Losses of Reactor.
10.	General	Capitalization Value for the Power Transformer losses and Bus Reactor Losses	The capitalization value for the power Transformer losses and Bus Reactor losses is not provided in the tender documents. Request you to provide the same.	Bid condition will prevail.
11.	Route for the Padum Site and Diskit Site	Route Survey for the Diskit and Padum site	As per our route survey, We understand that the present route to Padum is not feasible for carrying heavy equipments. Moreover, the new road construction project via a different route to Padum is under construction. So, 18 months of project duration is not feasible as the route to Padum is not ready. We request you to either extend the completion time of the project to atleast 30 months or share with us the details of some other route to Padum which you have surveyed. We have also enclosed below the route survey report conducted by us for the Kargil to Padum route. Our route survey	Bidders are requested to assess the site conditions by themselves, however as per information available with RECTPCL, transportation of material will not be a bottleneck. In case of any requirement of Road widening, bridge strengthening etc. the same shall be in the Scope of Owner/Employer.

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			vendor is also mentioning the requirement of Flyover Bridge system which needs to be shipped to India from Indonesia. This all will take time and time extension for the proejct completion is required. Please find the detailed route survey from kargil to Padum for your reference.	
12.	Project Duration of 18 months from date of Award of Contract	Project Duration is 18 months from the date of award of contract	Seeing the terrain, working conditions and weather conditions of the sites, we anticipate that the quantity of work is quite large and 18 months time will not be sufficient to complete the work. The contractor can work only for 6 months in one year in actuality at the locations. The roads for the supply of the equipments/materials are also closed due to heavy snowfall. Therefore, we request you to extend the completion time to at least 30 months from the date of LOA.	Bid Conditions will prevail.
13.	Vol-II, Sec-XIX, Section-Transformers (Upto 400KV)	Tools and Tackles for the Power Transformers	We understand that the testing kit "Portable Dissolved Gas Analysis of Oil" shall not be supplied along with the Power Transformers as it is not mentioned in the BPS. Please confirm our understanding.	Bidder's understanding in this regard is corrects. Bidders are requested to quote as per BPS.
14.	Vol-II, Sec-XIX, Section-	Tools and Tackles for the Power	We understand that the testing kit "On Line	Bidder's understanding in this

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	Transformers (Upto 400KV)	Transformers	Dissolved Hydrogen and Moisture Monitor" shall not be supplied along with the Power Transformers as it is not mentioned in the BPS. Please confirm our understanding.	regard is correct. Bidders are requested to quote as per BPS.
15.	Vol-II, Sec-XX, Section-Shunt Reactors (Upto 400KV)	Tools and Tackles for the Bus Reactors	We understand that the testing kit "Portable Dissolved Gas Analysis of Oil" shall not be supplied along with the Bus Reactors as it is not mentioned in the BPS. Please confirm our understanding.	Bidder's understanding in this regard is correct. Bidders are requested to quote as per BPS.
16.	Vol-II, Sec-XX, Section-Shunt Reactors (Upto 400KV)	Tools and Tackles for the Bus Reactors	We understand that the testing kit "Online Dissolved Gas (Multi-gas) and Moisture Analyser " shall not be supplied along with the Bus Reactors as it is not mentioned in the BPS. Please confirm our understanding.	Bidder's understanding in this regard is correct. Bidders are requested to quote as per BPS.
17.	Vol-II, Sec-XX, Section-Shunt Reactors (Upto 400KV)	Tools and Tackles for the Bus Reactors	We understand that the testing kit "On Line Dissolved Hydrogen and Moisture Monitor" shall not be supplied along with the Bus Reactors as it is not mentioned in the BPS. Please confirm our understanding.	Bidder's understanding in this regard is correct. Bidders are requested to quote as per BPS.
18.	General	Partial Discharge Monitoring System for 220KV GIS	We understand that the Partial Discharge monitoring system shall be PORTABLE TYPE. Online Type PD Monitoring system is not envisaged. Also we understand that the PD monitoring system shall be of 3 channel.	Bidder's understanding in this regard is correct. Bidders are requested to quote as per BPS.
19.	Price Schedule Leh &	Requirement of Partial Discharge	The requirement of the Partial Discharge	Bid provision in this regard is

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	Ladakh _ Schedule 1_ 220/33KV GIS at Diskit and Padum	Monitoring System for the 33KV GIS at Diskit and Padum substations	monitoring system for the 33KV GIS is not possible due to the design constraint of 33kV GIS. Therefore, we request you to kindly delete the requirement of the PD monitoring system for the 33KV GIS.	amply clear. Bidders are requested to quote as per BPS.ss
20.	Price Schedule Leh & Ladakh _ Schedule 1_ 220/33KV GIS at Diskit and Padum)	Requirement of SF6 Gas Filling and Evacuating System at Diskit and Padum substations	As per the price schedule, There is a requirement of one set of SF6 gas filling and evacuating plant mentioned for the 220KV and 33KV GIS. We understand that one set of SF6 gas filling and evacuating plant shall be commom for both 220KV GIS and 33KV GIS for each substation. Please confirm our understanding.	Bidder's understanding in this regard is correct. Bidders are requested to quote as per BPS.
21.	Price Schedule Leh & Ladakh _ Schedule 1_ 220/33KV GIS at Diskit and Padum	Requirement of SF6 Gas Filling and Evacuating System at Diskit and Padum substations	We are considering the capacity of evacuation plant as under: Oil free Suction (recovery Pump): 30 M3/Hour Oil free Vacuum Pump: 60 M3/Hour (Nominal suction pressure) Compressor (Two Stage) : 15 M3/Hour (Delivery)	Bid provisions in this regard are amply clear and same shall prevail. Bidders are requested to quote as per BPS.
22.	General	Make List for the Tools and Tackles	There are no names of the approved vendors for the Tools and Tackles mentioned in the tender documents. Please provide the same.	Tools & Tackles shall be supplied as per PGCIL Approved make list only.

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23.	Price Schedule Leh & Ladakh _ Schedule 1_ 220/33KV GIS at Diskit and Padum	Requirement of Dew Point Meter at Diskit and Padum substations	As per the price schedule, there is a requirement of one set of Dew Point Meter mentioned for the 220KV and 33KV GIS. We understand that one set of Dew Point Meter shall be commom for both 220KV GIS and 33KV GIS for each substation. Please confirm our understanding.	Bidder's understanding in this regard is correct. Bidders are requested to quote as per BPS.
24.	Price Schedule Leh & Ladakh _ Schedule 1_ 220/33KV GIS at Diskit and Padum	Requirement of SF6 Gas Leak Detector at Diskit and Padum substations	As per the price schedule, There is a requirement of one set of SF6 gas leak detector mentioned for the 220KV and 33KV GIS. We understand that one set of SF6 gas leak detector shall be commom for both 220KV GIS and 33KV GIS for each substation. Please confirm our understanding.	Bidder's understanding in this regard is correct. Bidders are requested to quote as per BPS.
25.	General	Battery of extn. Substation (Phyang & drass)	It is assumed that existing batteries in Phyang & Drass substation are sufficient for future bays. Please confirm.	Bidder's assumption in this regard is correct. Bidders are requested to quote as per BPS
26.	General	Earth mat layout of extn. Substation (Phyang & drass)	Kindly provide earth mat layouts for Phyang & Drass substation.	Earth Mat layout of Phyang & Drass GIS is being shared vide Amendment 4.
27.	General	LT system of extn. Substation (Phyang & drass)	It is assumed that existing LT system (ACDB, DCDB) in Phyang & Drass substation are sufficient for future bays. Please confirm.	Bidder's assumption in this regard is correct. Bidders are requested to quote as per BPS.

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28.	General	Illumination of extn. Substation (Phyang & drass)	It is assumed that existing illumination in Phyang & Drass substation are sufficient for future bays. Please confirm.	Bid document is amply clear in regard to illumination. Bidders are requested to quote as per BPS.
29.	TECHNICAL SPECIFICATION, 'VOL-II, SECTION-I (Projects), page no. 27 of 31, clause no.-5	Transmission line side tension clamp for earth wire termination.	It is assumed that transmission line side insulators are also excluded from present scope. Kindly confirm.	Bidder's understanding in this regard is correct.
30.	TECHNICAL SPECIFICATION, 'VOL-II, SECTION-I (Projects), page no. 27 of 31, clause no.-5	Transmission line side tension clamp for earth wire termination.	Kindly specify line side conductors for each voltage grade in each substation.	I/C lines at Padum & Diskit GIS is of 220kV Voltage class with ACSR Deer Conductor.
31.	TECHNICAL SPECIFICATION, 'VOL-II, SECTION-XIX SECTION-TRANSFORMER (UPTO 400KV CLASS) CLAUSE NO.-9	Detail procedure for storage of spare transformer unit with and without isolator switching arrangement is enclosed at Annexure-Q.	Mentioned ANNEXURE is missing from tender document. Kindly provide the said document.	Bidders are requested to refer Amendment 4.
32.	General	Testing and Maintenance Equipments	We understand that the testing and maintenance equipments shall be as per the items mentioned in the BPS.	Bidder understanding in this regard is correct.
33.	General	Mandatory Spares	We understand that the Mandatory Spares	Bidder understanding in this

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			shall be as per the items mentioned in the BPS.	regard is correct. However, bidders are also requested to refer Annexure - I of Section - Project for details of mandatory spares.
34.	VOL-II, SECTION-I (Projects), page no. 7 of 31, clause no.-4.1.1.1 vi.	A tentative layout / GA drawing no. (RECTPCL/ LADAKH / DIS / GA / 04) of the switchyard is enclosed with this specification for 220/33kV Diskit (GIS) Substation.	Mentioned drawings is missing from tender document. Kindly provide the tentative GA & SLD of Diskit Substation.	Bidders are requested to refer Amendment 4.
35.	VOL-II, SECTION-I (Projects), page no. 7 of 31, clause no.-4.1.1.1 vi.	SF6 gas duct inside GIS building are part of respective GIS Module and deemed to be included in respective module.	Kindly clarify, support structure for SF6 gas duct inside GIS building are included within the respective module or not?	Bid provisions in this regard are amply clear and it shall prevail. Bidders are requested to refer bid provisions in totality.
36.	VOL-II, SECTION-I (Projects), page no. 10 of 31, clause no.-4.1.3 n)	Batteries & Battery Chargers: The capacity for batteries and battery chargers shall be worked out by the Contractor for the present and future bays as shown in the Single Line Diagram of the substation and shall be subject to Owner's approval.	Kindly specify no. of future bays for Diskit substation.	In this regard, bidders are requested to refer SLD & GA being issued vide Amendment 4.
37.	VOL-II, SECTION-I (Projects),	Geotechnical/Soil investigation including earth resistivity	Kindly specify tentative earth resistivity for Diskit substation.	In order to address issue of resistivity, suitable amendment is

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	page no. 10 of 31, clause no.-4.1.6 xxii)	measurement		being issued vide Amendment 4.
38.	VOL-II, SECTION-I (Projects), page no. 10 of 31, clause no.-4.1.6 xxiii)	Contouring and Levelling of Plot including Earthwork filling with borrowed Earth	Kindly specify tentative plot area for Diskit substation.	Bidders are requested to refer Amendment 4.
39.	VOL-II, SECTION-I (Projects), page no. 8 of 31, clause no.-4.1.2 b) (vi)	GIS Cable termination enclosure with isolating link, cable termination kit for making connection to 36kV XLPE cable. 36kV cable termination arrangement is to be finalized considering cable sizes of 630 Sq.mm and One no. of runs per phase for line feeders.	Kindly specify transmission line side connection will be via mentioned cable or conductor. In case of conductor, kindly specify the type of conductor.	33kV transmission Line side connection will be either through cable or Conductor. Type of cable/conductor shall be shared during detailed engineering with successful bidder.
40.	VOL-II, SECTION-I (Projects), page no. 15 of 31, clause no.-4.2.1.1 g)	A tentative layout / GA drawing no. (RECTPCL/ LADAKH / PAD / GA / 04) of the switchyard is enclosed with this specification for 220/33kV Padum (GIS) Substation.	Mentioned drawings is missing from tender document. Kindly provide the tentative GA & SLD of Padum Substation.	Bidders are requested to refer Amendment 4.
41.	VOL-II, SECTION-I (Projects), page no. 15 of 31, clause no.-4.2.1.1 g)	SF6 gas duct inside GIS building are part of respective GIS Module and deemed to be included in respective module.	Kindly clarify, support structure for SF6 gas duct inside GIS building are included within the respective module or not?	Bid provisions in this regard are amply clear and it shall prevail. Bidders are requested to refer bid provisions in totality.

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42.	VOL-II, SECTION-I (Projects), page no. 19 of 31, clause no.-4.2.3 o)	Batteries & Battery Chargers: The capacity for batteries and battery chargers shall be worked out by the Contractor for the present and future bays as shown in the Single Line Diagram of the substation and shall be subject to Owner's approval.	Kindly specify no. of future bays for Padum substation.	In this regard, bidders are requested to refer SLD & GA being issued vide Amendment 4.
43.	VOL-II, SECTION-I (Projects), page no. 21 of 31, clause no.-4.2.6 xxiii)	Geotechnical/Soil investigation including earth resistivity measurement	Kindly specify tentative earth resistivity for Padum substation.	In order to address issue of resistivity, suitable amendment is being issued vide Amendment 4.
44.	VOL-II, SECTION-I (Projects), page no. 21 of 31, clause no.-4.2.6 xxiv)	Contouring and Levelling of Plot including Earthwork filling with borrowed Earth	Kindly specify tentative plot area for Padum substation.	The provided land will be suitable for construction of substation as per scope. However, to address the issue of resistivity and site levelling, suitable provisions is being made vide Amendment 4.
45.	VOL-II, SECTION-I (Projects), page no. 16 of 31, clause no.-4.2.2 z) vi)	GIS Cable termination enclosure with isolating link, cable termination kit for making connection to 36kV XLPE cable. 36kV cable termination arrangement is to be finalized	Kindly specify transmission line side connection will be via mentioned cable or conductor. In case of conductor, kindly specify the type of conductor.	33kV transmission Line side connection will be either through cable or Conductor. Type of cable/conductor shall be shared during detailed engineering with successful bidder

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		considering cable sizes of 630 Sq. mm and one no. of runs per phase for line feeders.		
46.	VOL-II, SECTION-I (Projects), page no. 22 of 31, clause no.-4.3.1.1 d)	A tentative layout / GA drawing no. (RECTPCL/ LADAKH / PHY / GA / 04) of the switchyard is enclosed with this specification for 220/66kV Phyang (GIS) Substation.	Mentioned drawings is missing from tender document. Kindly provide the GA & SLD of Phyang Substation.	Bidders are requested to refer Amendment 4.
47.	VOL-II, SECTION-I (Projects), page no. 23 of 31, clause no.-4.3.4 a) iii)	Cable trenches inside Control Room, Relay Room, GIS buildings and Burried Cable in switchyard area. Contractor shall develop the Cable Trench/Buried Cable layout drawing based on standard sections of cable trenches provided with the tender and take approval from Employer.	Kindly provide existing cable trench layouts for Phyang substations.	Bidders are requested to refer Amendment 4.
48.	VOL-II, SECTION-I (Projects), page no. 25 of 31, clause no.-4.4.1.1 d)	A tentative layout / GA drawing no. (RECTPCL/ LADAKH / DRA / GA / 04) of the switchyard is enclosed with this specification for 220/66kV Drass (GIS) Substation.	Mentioned drawings is missing from tender document. Kindly provide the GA & SLD of Drass Substation.	Bidders are requested to refer Amendment 4.

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49.	VOL-II, SECTION-I (Projects), page no. 26 of 31, clause no.-4.4.4 a) vii)	Cable trenches inside Control Room, Relay Room, GIS buildings and Burried Cable in switchyard area. Contractor shall develop the Cable Trench/Buried Cable layout drawing based on standard sections of cable trenches provided with the tender and take approval from Employer.	Kindly provide existing cable trench layouts for Drass substations.	Bidders are requested to refer Amendment 4.
50.	General	Relays and BCU for 33KV GIS	We understand that the Relays, BCU and other MFMs etc. shall be mounted in the 33KV GIS panel LV chamber only. There is no requirement of the separate CRP panel for the 33KV GIS. Please confirm the same.	Bidder understanding in this regard is correct.
51.	Establishment of 50MVA (4 X 16.67MVA) (One bank + one spare unit	Establishment of 50MVA (4 X 16.67MVA) (One bank + one spare unit	We understand Protection for Transformer shall be considered as 3-PH transformer not 1-PH Transformer protection. Further there shall not be any protection applicable for Spare unit of Transformer.	Protection is to be provided for a bank of 3 Single Phase transformers. Bidder understanding for spare transformer is in order.
52.	Section Project Clause:12.18		We understand only 220kv GAS compt. monitoring shall be in our scope of supply not 33kv side. Please confirm.	Bid provisions in this regard are amply clear.
53.	SPARES Line item IX.3	Spares of Reactor Protection Panel	We understand any main bay protection of reactor is not in our scope of supply	Protection for a bank of 3 Single Phase Bus reactor is in the scope

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			whether this line item shall be applicable for SPARE item or NOT. Please confirm.	of supply of the bidder. Spares are to be supplied for Bus reactor Panel also in line with Annexure – I of Section- Project.
54.	Extension of 220kV Line bay extention at GIS Grid Substation at Phyang(Leh), Ladakh, U.T.	Augmentation of existing Bus Bar Protection Scheme	Please inform which make of existing Busbar available at site.	Existing Bus Bar scheme is of GE make.
55.	Extension of 220kV Line bay extention at GIS Grid Substation at Phyang(Leh), Ladakh, U.T.	Augmentation of existing Substation Automation System (SAS) for 220kV Line Bay as per Technical Specification	Please inform which make of existing SAS available at site.	Existing SAS is of GE make.
56.	Extension of 245kV LINE BAY EXTENSION AT 220/66kV GIS GRID SUBSTATION AT DRASS, Ladakh, U.T.	Augmentation of existing Bus Bar Protection Scheme	Please inform which make of existing Busbar available at site.	Existing Bus Bar scheme is of GE make.
57.	Extension of 245kV LINE BAY EXTENSION AT 220/66kV GIS GRID SUBSTATION AT	Augmentation of existing Substation Automation System (SAS) for 220kV Line Bay as per Technical Specification	Please inform which make of existing SAS available at site.	Existing SAS is of GE make

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	DRASS, Ladakh, U.T.			
58.	2.) The contractor shall also supply separate BCU for monitoring and control of auxiliary system including Auxiliary Transformer. SAS panels shall be placed in 220/33kV Control room.		Please clarify whether this clause is applicable for Extn. S/s also.	Bid provisions in this regard are amply clear. Bidders are requested to quote as per BPS.
59.	Auxiliary BCU for LT System		Aux. BCU shall be supplied for new S/s only	Bid provisions in this regard are amply clear and same shall prevail.
60.	Section Project 3.3	Establishment of One 220kV Line bay at Drass and extension of 220kV GIS Hall matching with existing specifications in all respect.	Please share existing CRP/SAS drawings for the existing system at Drass and Phyang S/s.	Bidders are requested to refer Amendment 4.
61.	Panel Type		Whether CRP panel shall be simplex or Duplex Type?	Bid provisions in this regard are amply clear and same shall prevail. Bidders are requested to quote as per BPS
62.	CRP Point No. 11	INDICATING INSTRUMENTS & TRANSDUCERS FOR CONTROL	We understand no conventional type equipment shall be applicable as this is the	Bid provisions in this regard are amply clear and same shall

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		PANEL:	SAS based system.	prevail.
63.	Busbar Protection(for New S/s)		Whether centralised Busbar scheme is acceptable for New S/s.	Bid provisions in this regard are amply clear and the same shall prevail.
64.	Busbar Protection(for Extn. S/s)		Please confirm Equipments/IEDs are available at site for Busbar Integration at both S/s.	For Bus bar integration, IED i.e. PU is to be considered for present scope.
65.	Complete Substation Automation System (SAS) for substation including hardware and software for the substation & remote control stations alongwith associated equipments for the following bays as per Technical Specification		Please clarify the scope of SAS for remote Control station. Also provide the detail of remote control centers.	Bidders may note that, Bidder's scope is limited to providing the data up to substation gateway under present scope of work.
66.	Directional Back up Over current and E/F protection scheme		Whether Backup OC & EF separate relay shall be applicable for 220kv Line bay or same shall be built-in Feature.	Back up O/C & E/F shall be integral part of Main Protection.
67.	Fault Recorder &		Same shall be built in feature of IEDs.	In built feature of IED is

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	Distance to Fault Locator		Please confirm.	acceptable, However, DR works station as per SAS specification to be provided.
68.	B.1 f), Schedule of Rates	245kV, 1600A, 1-phase/ 3 Phase SF6 GIS Bus duct alongwith support structure from GIS building to C/L of SF6 to Air Bushing (* = Considered for Single Phase Duct)	We shall quote for bus ducts considering the BOQ quantity. However, any change in the quantity at later stages will attract price implication.	Bidders are requested to quote as per BPS.
69.		Extension of 220kV Line bay extention at GIS Grid Substation at Phyang(Leh), Ladakh, U.T.Extension of 245kV LINE BAY EXTENSION AT 220/66kV GIS GRID SUBSTATION AT DRASS, Ladakh, U.T.	Please provide the as built drawings of both the substations and existing bus bar data as per the IEEE C37 document.	Requisite information for integration shall be shared with successful bidder, however for purpose of Tender Estimation, sufficient data is being provided vide Amendment 4.
70.	220KV GIS Technical Specifications, Clause 5.7	Service continuity requirement: For Double Main bus switching scheme during a fault in CB compartment, No bus bar permitted out of service during maintenance and repair/replacement. During a fault in GIS compartment other than CB compartment, maximum	The mentioned service continuity requirements can be achieved without fail by the offered 3-phase encapsulated bus bar & 1-phase encapsulated GIS with non-segregated bus bar arrangement. Please confirm.	Provision of Bid Document shall prevail.

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		one bus bar and/or one feeder permitted out of service during maintenance and repair/replacement.		
71.	220KV GIS Technical Specifications, Clause 5.8	The material and thickness of the enclosures shall be such as to withstand an internal flash over without burns through for a period of 300 ms at rated short time withstand current. The material shall be such that it has no effect of environment as well as from the by-products of SF6 breakdown under arcing condition. This shall be validated with Type Test.	The burn through period of enclosures shall be as prescribed by IEC. Please confirm.	Provision of Bid Document shall prevail.
72.	220KV GIS Technical Specifications, Clause 5.21	The GIS shall be designed, so as to take care of the VFT over voltages generated as a result of pre-strikes and re-strikes during isolator operation. Maximum VFT over voltages peak shall not be higher than rated lightning impulse withstand voltage (LIWV) of the equipment.	The GIS has already been Type Tested for certain VFT values which are lower than LIWV. We understand that no additional VFT study needs to be performed for the system. Please confirm.	Noted... However, Manufacturer shall submit the study report of VFTO generated for GIS installation meeting all the requirement of Tender Specifications.

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		Necessary measures shall be under taken by GIS manufacture to restrict maximum VFT over voltages lower than the LIWV. Manufacturer shall submit the study report of VFTO generated for GIS installation.		
73.	220KV GIS Technical Specifications, Clause 5.26	The Stairs, fixed ladders, platform and walkways shall be provided wherever necessary for access to the equipment.	We envisage provision of Mobile Ladders for access to operating mechanisms and no walkways are necessary for proposed Layout. Please accept.	Noted, for provision of suitable industrial mobile ladder. However, provision regarding platform & walkway shall be as per Tender Specifications.
74.	220KV GIS Technical Specifications, Clause 5.32	Optical beam fire detector shall be provided in line with TAC Guideline for 220kV GIS, if height of GIS hall is more than 10 m.	The same is excluded from our scope of supply.	Provision of Bid Document shall prevail.
75.	220KV GIS Technical Specifications, Clause 5.38.3	The enclosure of the GIS may be grounded at several points so that there shall be grounded cage around all the live parts. A minimum of two nos. of grounding connections should be provided for each of circuit breaker,	The offered GIS design is such that proper bonding is ensured by direct metal to metal flange connections and 2 nos. earthing provisions are given for grounding.	Provision of Bid Document shall prevail.

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		cable terminals, surge arrestors, earth switches and at each end of the bus bars. The grounding continuity between each enclosure shall be effectively interconnected externally with Copper /Aluminum bonds of suitable size to bridge the flanges.		
76.	220KV GIS Technical Specifications, Clause 5.39	UHF sensors for PD detection: Adequate number of UHF sensors shall be provided in the offered GIS for detection of Partial discharge (of 5 pC and above) as per IEC 60270. The number and location of these sensors shall be based on laboratory test on typical design of GIS as per recommendations of CIGRE Document No. 654 (APPLICATION GUIDE FOR SENSITIVITY VERIFICATION for UHF PARTIAL DISCHARGE DETECTION SYSTEM FOR GIS). Offered numbers and location of	Number of UHF sensors & the location of UHF sensors shall be as per manufacturer's recommendations. Please note that the locations of sensors shall be decided during detailed engineering itself to achieve the desired sensitivity & the same will be reflected on the drawings which will be submitted for approval. No change on the same is recommended at site.	Quantity and location of UHF shall be subject to approval of RECTPCL and as per Tender Specifications during Detailed designing stage.

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		UHF sensors shall be submitted based on above said criteria alongwith attenuation calculation for approval of employer. Further UHF sensors shall necessarily be provided in close proximity to VT compartments		
77.	220KV GIS Technical Specifications, Clause 5.40(4)	The horizontal clearance between GIB and GIS building /any other building wall shall be minimum three (3) meters.	For GIB Support structures approximately 1 mts., clearance distance is needed from wall to GIB. However, minimum required space between building to GIB shall be decided during detailed stucture designing taking into consideration an optimum layout and space to accommodate the future feeder's GIB. Please confirm.	Provision of Bid Document shall prevail.
78.	220KV GIS Technical Specifications, Clause 6.8	ii. The type test report of Electromagnetic Compatibility Test (EMC) of CSD shall be submitted for approval	We understand that this is not applicable for the offered GIS. Please confirm.	Bidder understanding is in order.
79.	220KV GIS Technical Specifications, Clause 7.2.10	Each disconnecter shall be supplied with auxiliary switch having additional 8 NO (Normally Open) and 8 NC (Normally Closed) contacts for future use over and above	Auxiliary switches are of standard design/size suitably designed for the available space. Hence the required additional 8 NO (Normally open) and 8 NC (normally closed) contacts shall be provided to customer through contact	Noted.

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		those required for switchgear interlocking and automation purposes. These spare NO and NC contacts shall be wired up to the local control cabinet.	multiplication relays at LCC.	
80.	220KV GIS Technical Specifications, Clause 7.2.13	The disconnectors and safety grounding switches shall have a mechanical and electrical interlocks to prevent closing of the grounding switches when isolator switches are in the closed position and to prevent closing of the disconnectors when the grounding switch is in the closed position. Integrally mounted lock when provided shall be equipped with a unique key for such three phase group. Master key is not permitted.	The disconnectors and safety grounding switches are separate modules in GIS design and shall have only electrical interlocks between them. However, padlocking facility shall be provided to enable manual interlocking.	Bid provisions are amply clear in this regard.
81.	220KV GIS Technical Specifications, Clause 7.2	Each safety grounding switch shall be electrically interlocked with its associated disconnectors and circuit breaker such that it can only be closed if both the circuit breaker and	The disconnectors and the safety grounding switches are separate modules in GIS design and shall have only electrical interlocks between them. However the required padlocking facility shall be provided for the manual interlocking for	Noted.

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		disconnectors are in open position. Safety grounding switch shall also be mechanically key interlocked with its associated disconnectors.	additional protection.	
82.	220KV GIS Technical Specifications, Clause 8.6	Each ground switch shall be fitted with auxiliary switches having 4 NO (Normally Open) and 4 NC (Normally Closed) contacts for use by others over and above those required for local interlocking and position indication purposes.	Auxiliary switches are of standard design/size suitably designed for the available space. Hence the required additional 4 NO (Normally open) and 4 NC (normally closed) contacts shall be provided to customer through contact multiplication relays at LCC.	Noted..
83.	220KV GIS Technical Specifications, Clause 9.9	Each high speed ground switch shall be fitted with auxiliary switches having 4 NO (Normally Open) and 4 NC (Normally Closed) contacts for use by others, over and above these required for local interlocking and position indication. All contacts shall be wired to terminal blocks in the Local Control Cabinet. Provision shall be made for padlocking the	Auxiliary switches are of standard design/size suitably designed for the available space. Hence the required additional 4 NO (Normally open) and 4 NC (normally closed) contacts shall be provided to customer through contact multiplication relays at LCC.	Noted.

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		ground switches in their open or closed position.		
84.	220KV GIS Technical Specifications, Clause 5.41.2	As the GIS is likely to be extended in future, the contractor shall make available during detailed engineering stage, the complete design detail of interface module such as cross section, enclosure material, enclosure dimensions (inner & outer), Flange diameter (inner & outer), conductor connection arrangement, bolt spacing & dimension, rated gas pressure etc. Further GIS manufacturer supplying GIS under present scope shall furnish all the required details in addition to mentioned above necessary for design and successful implementation of an interface module during later stage while extending GIS by any other GIS manufacturer, without any help of GIS manufacturer who has supplied the GIS equipment in	No material supply is considered in our scope for design of adopter for future extension of GIS. The Data shall be provided in line with IEEE C37	Bidder is to meet specification Requirement as detailed in Clause No.4.1.1. a (vi), Section - I Project, Vol-II.

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		present scope.		
85.	220KV GIS Technical Specifications, Clause 5.41.4	Further the contractor who is extending the existing GIS installation shall optimally utilize the space inside the GIS hall (including the extension portion) for accommodating the interface module being supplied under the contract and the space (along the length of the hall) inside the GIS hall for interface module shall preferably be limited to 1 meter for 220/132kV	We shall limit the length of the interface modules as minimum as possible, however the exact length shall be confirmed only during detailed engineering.	Provision of Bid Document shall prevail.
86.	220KV GIS Technical Specifications, Clause 5.42	SF6 gas shall be tested for purity, dew point, air, hydrolysable fluorides and water contents as per IEC:376, 376A & 376B and test certificates shall be furnished to the owner indicating all test results as per IEC standards for each lot of SF6 gas. Further site tests for moisture, air content, flash point and dielectric strength to be done during	SF6 gas shall be tested for purity, dew point, air, hydrolysable fluorides and water contents as per IEC:376, 376A & 376B and test certificates shall be furnished to the owner indicating all test results as per IEC standards. Flash point and dielectric strength tests are not possible at site due to practical restrictions and for all other tests, test reports shall be submitted. Please accept the same.	Provision of Bid Document shall prevail.

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		commissioning of GIS. Gas bottles should be tested for leakage during receipt at site.		
87.	220KV GIS Technical Specifications, Clause 6.3	Interrupting the steady and transient magnetizing current shall be as follows:	Interrupting the steady and transient magnetizing currents as stipulated by IEC.	Provision of Bid Document shall prevail.
88.	220KV GIS Technical Specifications, Clause 6.8.2	During testing of CB, dynamic contact resistance measurement (DCRM) shall be carried out for close-open (CO) operations with delay of 300ms between close and trip operations. Minimum 100A current shall be injected for DCRM test. Travel characteristics, injected current, trip/close coil current shall also be recorded along with DCRM test.	With our decades of experience on our interrupter design, we confirm that there is no necessity to carry out DCRM test . Hence, we exclude it from our routine tests.	Provision of Bid Document shall prevail.
89.	220KV GIS Technical Specifications, Clause 19.5	DESIGN REVIEW The manufacturer will be required to demonstrate the use of adequate safety margins for thermal, mechanical, dielectric, insulation coordination and vibration etc. design to take into the account the uncertainties of	The asked information is considered as an Intellectual property of Manufacturer & shall be demonstrated. However, an adequate care on safety is taken and the same shall be confirmed on our design.	Provision of Bid Document shall prevail.

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		his design and manufacturing processes.		
90.	220KV GIS Technical Specifications, Clause 19.6	<p>The scope of such a design review shall at least include the following:</p> <ol style="list-style-type: none"> 1. Dielectric Stress of Solid Insulation like Gas Barrier, support insulator etc. 2. Dielectric stress of SF6 Gas Volume. 3. Mechanical strength of enclosure, expansion joints etc. 4. Criteria for providing expansion joint. 5. Sealing system 6. Insulation coordination 7. Thermal stress and resulting increase in gas pressure during short circuit condition. 8. Earthing of enclosure w.r.t circulating current. 9. Seismic design, as per IEC 62271-207 10. Circuit Breaker . 	Intellectual property of manufacturer shall not be allowed for review. Respective type test reports shall be submitted.	Provision of Bid Document shall prevail.

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		11. Isolator and Earth switch. 12. Voltage transformer. 13. Current Transformer. 14. Surge Arrester. 15. Bushing. 16. Ducting. 17. Corrosion protection . 18. Electrical and physical Interfaces with substation . 19. Testing capabilities. 20. Inspection and test plan. 21. Transport and storage. 22. Maintainability. 23. Site Test.		
91.	220KV GIS Technical Specifications, Clause 19.7	Further, the manufacturer shall furnish the following information a) Details regarding the loosely distributed metallic particles within the GIS encapsulation and calculations of critical field strength for specific particles of defined mass and geometry. b) Study report of VFTO generated for GIS installation.	Intellectual property of Manufacturer & no such information shall be reviewed.	Provision of Bid Document shall prevail.

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		<p>c) The methodology and all the equipment for electrical partial discharge (PD) detection, including that mentioned in the specification else-where.</p> <p>d) The calculations and documents in support of the average intensity of electromagnetic field on the surface of the enclosure above during detailed engineering.</p> <p>e) The detailed criteria/ design regarding location of pressure relief devices/rupture diaphragms</p>		
92.	220KV GIS Technical Specifications, Clause 19.7	<p>f) Calculations to show that there is no Ferro resonance due to capacitance of GIS for the voltage transformers</p> <p>g) Design calculation for simulated parameters for Seismic level as applicable</p> <p>h) Insulation Coordination</p>	<p>f), g), j), k) Intellectual property of Manufacturer & no such information shall be reviewed.</p> <p>i) , h), are not GIS manufacturer's scope of work.</p>	Provision of Bid Document shall prevail.

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		<p>studies including studies to recommend for additional surge arrestor</p> <p>i) Calculation in support of touch & step voltages in all enclosures and earthing of complete GIS installation.</p> <p>j) Measures to mitigate transient enclosure voltage by high frequency currents.</p> <p>k) Calculation for providing bus duct supports.</p>		
93.	220KV GIS Technical Specifications, Clause 22	All transport packages containing critical units viz Circuit breakers and Voltage transformers shall be provided with sufficient number of electronic impact recorders (on returnable basis) during transportation to measure the magnitude and duration of the impact in all three directions. The acceptance criteria and limits of impact in all three directions which can be withstood by the	Shock indicators shall be provided only for VTs being a sensitive equipments. No electronic impact recorders are necessary for Circuit Breaker. Please accept the same.	Provision of Bid Document shall prevail.

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		equipment during transportation and handling shall be submitted by the contractor during detailed engineering. The recording shall commence in the factory and must continue till the units reach site. The data of electronic impact recorders shall be downloaded at site and a soft copy of it shall be handed over to Engineer – in – charge. Further, contractor shall communicate the interpretation of the data within three weeks.		
94.	Section Project , Clause 4.2.1.1 f)	245kV Gas Insulated Wall mounted SF6 to Air Bushing:-	Instead of wall mounted bushings (which complicate the GIS termination) we propose terminating GIS with normal Sf6-Air bushings taken out of the building through bus ducts. Please accept.	Bidders are requested to refer Amendment 4.
95.	Section Project , Clause 4.3	Line Bay Extension at Phyang – In the existing 220kV GIS of Hyosung make at Phyang (Leh) S/s, one line bay is to be extended for which Space is available to accommodate Wall mounted SF6	As there is no space available for wall mounted bushings, we would like to propose terminating GIS with normal Sf6-Air bushings taken out of the building through bus ducts. Please accept.	Bid provisions in this regard are amply clear and same shall prevail. Bidders are requested to quote as per BPS

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		to Air Bushing in delta formation on the wall and line bay module on the floor, details of which are given below:-		
96.	Metereological Data for the extension sites	Ambient temperatures: Leh Phyang : -28.3 deg C Drass : -45 deg C	The offered switchgear is suitable for use for a lower temperature of -25 Deg C, and therefore the lowest temperatures mentioned for the mentioned substations are beyond its design limit. We understand that certain measures are in place in the switchgear room to keep the temepature within its design limits. Please confirm.	GIS Substation is already under charged condition at both sites and requisite temperature is being maintained.
97.	Clause No. 4.6.3.1, Page No. 7, GTR	(C) For 33 kV Vacuum Circuit Breaker and Isolator: Design ambient temperature (°C): 50	As the temperature of J&K region shall never go beyond 40degc; Hence request you to confirm design ambient temperature of 33kV GIS to be 40degC. Pl confirm de rating of busbar continuous current rating	Bidder is to meet specification requirement Provision of Bid Document shall prevail.
98.	Clause No. 12.3.4, Page No. 18, GTR	The exterior and interior colour of the paint in case of new substations shall preferably be RAL 7032 for all equipment, marshalling boxes, junction boxes, control cabinets, panels etc.	33kV GIS paint shade as per manufacturer's standards shall be SN 700. Request you to accept the same.	Bidders may note that paint shade shall be discussed and decided during detailed Engineering.
99.	Clause No. 2 (d), Page	Each circuit shall have a separate	Noted. however only busbar compartment	Provision of Bid Document shall

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	No. 2, Section Project	vertical panel with required compartments for circuit breaker, cable termination, main bus-bars and auxiliary control devices.	is common per bus section and is not bay segregated.	prevail.
100.	Clause No. 2 (f), Page No. 2, Section Project	The Service Class Continuity of Switchgears shall be LSC 2B- PM (as per IEC 622771-200)	We confirm to LSC 2	Provision of Bid Document shall prevail.
101.	Clause No. 2 (k), Page No. 3, Section Project	The height of switches, pushbuttons and other hand operated devices shall not exceed 1800 mm and shall not be generally less than 700 mm.	The height of switches, pushbuttons and other hand operated devices shall not exceed 2000 mm and shall not be generally less than 700 mm.	This requirement is kept for ease of operation and maintenance purpose. In case of increase in height of devices more than 1800 mm, suitable arrangement i.e. industrial mobile platform for height differential shall be provided by bidder
102.	Clause No. 2 (m), Page No. 3, Section Project	Suitable base frames made out of steel channels shall be supplied along with necessary anchor bolts and other hardware, for mounting of the switchgear panels	GIS suitable for floor standing. We have not considered any external base frame in our scope of supply. If required base frame detailed dwg shall be submitted.	Bidder to provide as per requirement of Site and TS.
103.	Clause No. 2 (p), Page No. 3, Section Project	Thermostatically controlled space heater with common MCB shall be provided for various compartments	Applicable for LV compartment only.	Provision of Bid Document shall prevail.

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104.	Clause No. 2 (g), Page No. 6, Section Project	The panel shall have Voltage Presence Indicator (VPI) to warn the operator against earthing of live connections	The warning is via lamps which are part of VPI and shall glow when the respective phase is live(1 lamp per phase)	NOTED..
105.	Clause No. 3.07 (a), Page No. 6, Section Project	All current transformers shall preferably be ring type where as voltage transformers (PT) shall be cast resin insulated type.	PT is of epoxy resin type	Bidders are requested to refer Amendment 4.
106.	Clause No. 3.07 (c), Page No. 6, Section Project	All instrument transformers shall withstand the power frequency and impulse test voltage specified for the switchgear assembly	Impulse test of 170 kVP not applicable for CTs as CTs are ring type and placed around GIS enclosure.	Noted.
107.	Clause No. 3.08.08, Page No. 8, Section Project	All Numerical relays shall have features for electrical measurements including voltage, current, power (active & reactive), frequency, power factor etc	Voltage coil for relays shall be applicable as per technical specs for individual feeder reqt.	Noted.
108.	Clause No. 3.09.01, Page No. 9, Section Project	Numerical Transformer Protection Relay	Transformer considered as 2 winding trafo. Trafo protection relay shall be selected based on same. Confirm if otherwise	Bidders may note that, Differential, HV and LV REF relays are considered for installation in 220kV CR Panel. However, LV O/C and E/F protection relay with integral REF feature are considered for

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				installation in 33kV GIS Transformer bay Panels.
109.	Clause No. 3.09.04, Page No. 10, Section Project	Battery backup for real time clock in the event of power supply failure shall be provided	Same shall be confirmed during detailed engineering	Provision of Bid Document shall prevail.
110.	Clause No. 8.01, Page No. 13, Section Project	A. Switchgear Panel (with Circuit Breaker installed) h. Test to verify pressure relief operation of the panel (During internal arc test)	Same shall be confirmed during detailed engineering	Provision of Bid Document shall prevail.
111.	Clause No. 8.01, Page No. 13, Section Project	C. Current Transformer - c. Lighting Impulse voltage withstand test	Impulse test of 170 kVP not applicable for 33kv CTs as CTs are ring type and placed around GIS enclosure.	Noted..
112.	Clause No. 8.01, Page No. 13, Section Project	E. Switchgear Panel a. IP 4X test	IP4X applicable only for LV compartment. We confirm to maximum degree of protection of IP3XD for Swgr.	Provision of Bid Document shall prevail.
113.	Clause No. 9.00 a)11, Page No. 16, Section Project	11 Total break time: Not more than 4 cycles	11 Total break time <85 ms for 1st trip coil instead of <=80 ms(i.e <=4 cycles). Clause confirmed for 2nd shunt trip coil	Provision of Bid Document shall prevail.
114.	Clause No. 9.00 b)1, Page No. 17, Section Project	Rated primary voltage 33kV	Rated voltage of 33 kV not applicable for CTs as CTs are ring type with LV voltage levels and placed around GIS enclosure and hence free from HV stress levels (enclosure is touch proof in our design)	Noted.
115.	General	CT Rated Burden	VA Burden of each 33kV CT's shall be	Provision of Bid Document shall

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			confirmed during detailed engineering	prevail.
116.	General	Knee point voltage (at minimum ratio)- 400V	Reqd of 400 V for lower tapping is stringent and is subject to CT design feasibility	Provision of Bid Document shall prevail.
117.	General	INCOMER / BUS COUPLER FEEDER-3rd core Class PS	We understand that Class PS is only a spare core. Also as per BOQ in pg 12,relay qty for i/c and b/s is 1 only,hence we have not considered any additional differential protection relay for Class PS core.	Bidders may note that, Differential, HV and LV REF relays are considered for installation in 220kV CR Panel. However, LV O/C and E/F protection relay with integral REF feature are considered for installation in 33kV GIS Transformer bay Panels.
118.	General	Current ratio 40-20/1 A	Lower tapping is stringent and is subject to CT design feasibility. Hence request you to accept 100-50/1A for LT Transformer Feeder.	Bid provision is amply clear. Bidders are requested to refer Vol. II (Section IV): Requirement for 33kV Current Transformer.
119.	Clause No. 10, Page No. 21, Section Project	v) Bus VT FUSE Fail	Fuses are not applicable for VT primary side. Detailed explanation shall be provided during detailed engineering	Bidders may note that, To show Bus VT supply is not available, BUS VT Fuse alarm is required.
120.	General	Bus VT	Bus VT is with Disconnecting-cum-earth Switch (Isolator) or plug in type. If with Isolator, then please confirm whether disconnecter shall be manual or motor operated.	Bidders may note that, Disconnecter shall be electrically as well as manual operated
121.	General	Group operated isolator switches	Please note that in 33kV GIS, we have 3-	Noted..

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		& Group operated grounding switches of 33kV GIS Feeders	position Isolator-cum-grounding switch having ON-OFF-EARTH position, no separate isolator switch & earthing switch.	
122.	General	Line Side Isolating -cum- Grounding switch	We understand Line Side Isolating -cum- Grounding switch of Trafo Bay is part of GIS. Pl confirm & also Single line Diagram of 33kV GIS.	Bidder's understanding is in order. For SLD, Bidders are requested to refer Amendment 4.
123.	General	Contour map	Please provide us the contour map and proposed finishing ground level(F.G.L.) for all four substations.	In order to address issue of Site levelling, suitable amendment is being issued vide Amendment 4.
124.	General	Contour map	Please provide us the contour map and proposed finishing ground level(F.G.L.) for all four substations.	In order to address issue of Site levelling, suitable amendment is being issued vide Amendment 4.
125.	General	Soil Investigation Report	Please provide us the soil investigation report for all four substations.	In order to address issue of resistivity & Site levelling, suitable amendment is being issued vide Amendment 4. However, bidder may carry out their own investigation in this regard.
126.	General	Land development	We understand that fairly leveled land (+/- 100mm w.r.t. FGL) shall be handed over to us. Please confirm.	In order to address issue of resistivity & Site levelling, suitable amendment is being issued vide Amendment 4.
127.	General	Site office/labor colony/store	Please confirm us that necessary land for	Bid Provisions in this regard are

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			site office/store/labor colony/batching plant will be provided to us near the area under present scope.	amply clear and shall prevail.
128.	General	Hindrance Register	Hindrance register shall be maintained by us at site which shall include the delays due to force majeure, natural calamities etc. and extension/compensation shall be provided to us for the same. Please confirm.	Force Majeure condition shall be dealt as per Tender provisions.
129.	General	Foundations	We understand that no piling shall be required. Normal foundations shall be considered by us .Please confirm.	Piling is not envisaged.
130.	General	Water and Power	Please confirm us the distance of the location w.r.t. some reference point where point for water and power will be given to us.	Arrangement of Construction Power & Water is in the scope of Bidder.
131.	Section Project- Clause 5.(b.), specific exclusions	Approach Road	As per the clause, we understand that approach road till substation boundary shall not be in scope of bidder. Please confirm.	The entrance road by Suitable curves connecting Main Road adjoining to the Plot area shall be constructed by Successful Bidder.
132.	General	land acquisition	We understand that land is acquired by M/s JKPDD. Please confirm.	Suitable land shall be handed over to the successful bidder.
133.	Price schedule - Civil works, item no. 2.1	Earthwork filling with borrowed earth	Only eathwork filling with borrowed earth is provided in the Price schedule as a quantified item. But due to non availability of contour plan there may be probability of	Bidders are requested to refer Amendment 4.

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			cutting in the area and same cutting soil will be used for filling. Item for cutting and filling is not given in the price schedule. Request RECTPCL to either add the item for cutting and filling in price schedule or confirm that there is no requirement for cutting and filling for proposed site areas.	
134.	General	HVAC	The latest split units do not have provision for monitoring compressor ON/OFF and failure status externally. However In-built diagnostics with more sophisticated signal list is available as default option with many OEMs which will be displayed in indoor PCB. Tampering circuit this will void warranty. Presently We are considering only distribution panel with periodic changeover timer and provision for high room temperature alert. Kindly confirm.	Controllers are required to be supplied in line with Tender requirement. Accordingly, bidders may take care of the same while quoting for split AC. No separate payment shall be considered for it in future.
135.	TS for Air conditioning system Clause 2.3.4	Air conditioning system	Understand that split air conditioner shall have only cooling provision and heating shall be provided by Oil type Convector as per client BOQ. Kindly confirm.	Split AC shall have provision of Cooling as well as Heating in line with Tender requirement. Additional heating shall be provided in line with provision of the Bid document.

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136.	TS for Air conditioning system Clause 1.5	Air conditioning system	Heating system provided in GIS hall shall be with duct mounted Strip heaters. Kindly confirm.	Heating system inside GIS shall be provided in line with TS. Provision of bid document shall prevail.
137.	Annex.-IV, HVAC	HVAC	Since 2TR split ac quantities and Oil convector quantities are provided separately. We are considering Split AC only with cooling provision. Please confirm the same.	Split AC shall have provision of Cooling as well as Heating in line with Tender Specifications. Oil convectors provision is kept separately for heating only.
138.	BOQ, HVAC	HVAC	Capacity of oil convector shall be 2kW as per Annex.-V. Please confirm.	Bidder understanding in this regard is correct.
139.	BOQ, HVAC	HVAC	The latest split units do not have provision for monitoring compressor ON/OFF and failure status externally. However In-built diagnostics with more sophisticated signal list is available as default option with many OEMs which will be displayed in indoor PCB. Tampering circuit this will void warranty. Presently We are considering only distribution panel with periodic changeover timer and provision for high room temperature alert. Kindly confirm.	Controllers are required to be supplied in line with Tender specification. Accordingly, bidders may take care of the same while quoting for split AC. No separate payment shall be considered for it in future.
140.	Section project Clause 4.4.2, point: g,	HVAC	Extension of existing ventilation duct is envisaged. Request to confirm whether the	Bidder's understanding in this regard is correct.

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	HVAC, Drass Site		existing system is having sufficient additional capacity/provision for extension (including heating system). Kindly confirm. Request to share the existing drawing for this s/s.	Drawing shall be shared with successful bidder.
141.	BOQ, HVAC	HVAC	Understand that 36kV GIS Building does not have a separate panel room. Kindly confirm whether we should consider Air Conditioning or Only ventilation. Please confirm.	Provision is to be kept for ventilation i.e. exhaust fans with motor operated Louvers to be provided in line with BPS.
142.	Scope, Fire Protection System, Drass	Fire Protection System, drass	Please share the existing FDA system details to enable us to design and hook-up with existing system. We understand that vendors shall use existing panel/ZONE for extension works. Only necessary detector and cable shall be supplied and erected. Kindly confirm.	Augmentation of fire alarm panel etc. is in the scope of bidder for line bay extension. Therefore, necessary associated activities for supply, erection, testing & commissioning is also in the scope of bidder. For any additional information bidder may visit site. Existing FDA system shall be shared with successful bidder.
143.	Instruction to Bidders (ITB) , Clause ITB 11.4 (b)	ITB Point 11.4 (b): It is the Employer's understanding that as per extant provisions, on the charges for	The Bidder requests for understanding the reasoning behind Employer's stand that no GST is payable on charges on the supply of services related to Inland transportation,	

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		supply of services related to Inland transportation, In-transit insurance, loading and unloading by the Bidder to the Employer, GST is not payable. The Bidder is, however, advised to check the position from their own sources. If payable, the same shall be to the Bidder's account and Employer shall not reimburse any GST on this account.	<p>In-transit insurance, loading and unloading.</p> <p>Bidder refers "Section 2 (30) of CGST Act 2017- composite supply" means a supply made by a taxable person to a recipient consisting of two or more taxable supplies of goods or services or both, or any combination thereof, which are naturally bundled and supplied in conjunction with each other in the ordinary course of business, one of which is a principal supply;</p> <p>Hence, in the present case the supply of goods is the principal supply and Transportation, Insurance, Loading and Unloading which are services are combined with the principal supplies hence law mandates that on the entire value (value of the goods + transportation, insurance, loading and unloading) GST is paid on the basis of the HSN of the goods supplied (being the principle supply).</p>	It is to clarify that prices of Local Transportation, In-transit insurance, loading and unloading (F&I Charges), if applicable, shall be inclusive of GST, and in such case, the supplier shall raise GST invoice in such a manner that total liability on account of F&I charges including applicable GST (if any) thereon (mentioned in the Invoice) remain equal to F&I Charges as indicated in the contract.
144.	Instruction to Bidders (ITB) , Clause ITB 11.4 (f)	ITB Point 11.4 (f): The bidder shall solely be responsible for HSN/SAC	There is an ambiguity in the interpretation of the HSN Codes and the applicable GST rates. The Bidder requests that incase the	Bid Conditions will prevail Bid provisions in this regard are amply clear and same shall

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		classification and the rate of GST for each item. Employer's liability for reimbursement of GST shall be lower of the GST applicable at the rate as confirmed/deemed confirmed in the bid or actual GST paid/payable by the bidder for that item.	confirmed GST rates at Bid stage is lower than the actual GST paid or payable by the Bidder then the same shall be reimbursed at actuals against documentary evidence.	prevail.
145.	Section IV- General Conditions of Contract (GCC) , Clause 27 - Liquidated Damages for Delay	If the Contractor fails to complete the Work as specified in Clause 24 hereof, the purchaser shall, without prejudice to its other remedies under the Contract, deduct the amount from any monies in its hands, due or which may become due to the Contractor, as liquidated damages (which is a genuine pre-estimate agreed by the parties hereto of the loss or damage which the purchaser would have suffered on account of delay without giving any proof of the	1) As per standard terms & conditions followed by other public utilities, Contractor proposes rate of Liquidated Damages on account of delay to be 0.5% of the Contract price plus GST payable thereon per week of delay or part thereof subject to a maximum of 5% of the Contract price plus GST payable thereon. 2) The Contractor understands that GST shall be additionally payable on levy of Liquidated Damages. We request you to please provide the applicable rate of GST.	Bidders are requested to read the existing clause of Tender Documents.

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		loss or damages) a sum equivalent to 1.0% of the Contract price plus GST payable thereon per week of delay or part thereof subject to a maximum of 10% of the Contract price plus GST payable thereon.		
146.	Section IV- General Conditions of Contract (GCC) , Clause 39 - Limitations of Liability	Additional Clause on Limitation of Liability	As per normal Central & State Utilities practice, we propose to include the Limitation of Liability Clause: The aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price.	Bid Conditions are amply clear. Bidders are requested to refer the same.
147.	Section IV- General Conditions of Contract (GCC) , Clause 39 - Limitations of Liability	Additional Clause on Consequential Damages	As per normal Central & State Utilities practice, we propose to include the Consequential Damages Clause: Neither Party to this Contract shall be liable to the other Party for any indirect or Consequential damages arising due to performance of this Contract such as - loss of profit or revenue, and - loss of production (for oil and gas	Bidders are requested to refer Amendment 4.

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			business: including loss of hydrocarbons), and - interruption of operations or loss of use, and - cost of capital, and - loss of interest, and - loss of power, and - cost of purchased or replacement power, and - loss of information and data, and - damages based on the customer's third party contracts.	
148.	Section IV- General Conditions of Contract (GCC) , Clause 41 - Force Majeure (Addition of a new clause)	Addition of a new clause	In case there are Export/Import embargoes levied which limit the movement of shipments to the site from a country other than India,the Contractor shall be unable to deliver the affected shipments to site. The Contractor therefore proposes for the addition of the following clause : Siemens" obligation to fulfill this agreement is subject to the provision that the fulfillment is not prevented by any impediments arising out of national and international foreign trade and customs	Bid provisions shall prevail.

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			requirements or any embargos [or other sanctions]."	
149.	Section V- Special Conditions of Contract (SCC) , Point No. 12 - Clause No. 44	Point 6 - Employer would not bear any liability on account of any other taxes duties, levies applicable locally.	Bidder understands that the BOCW shall be applicable in the Installation including Civil Works and not on the supply portion.	Bid provisions shall prevail.
150.	Section V- Special Conditions of Contract (SCC) , Point No. 12 - Clause No. 44	Additional Clause on Statutory Variation in Taxes & Duties	In case there is a change in the rates of any taxes, duties, levies or if new taxes or duties are imposed, then the same will be reimbursed by Employer.	Bid provisions in this regard are amply clear. Bidders are also requested to refer clause no. 18 o SCC in this regard.
151.	Section IX - Forms , Appendix 1: 4.1 PROCEDURES OF PAYMENT	Terms of Payment- 1.1 Supply of Goods Portion: A. Interest Bearing Advance (Optional*): Ten percent (10%) of the Ex-works price component of Main Equipment/Materials (including Mandatory Spares) shall be paid as an interest bearing initial advance after signing the Contract Agreement and on submission of 1.4 Price Component for Installation (including Civil	We request you to provide the 10% advance as Interest free initial advance payment to be paid within 30 days from the submission of bill.	Bid provisions shall prevail.

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		Works) A. Interest Bearing Initial Advance (Optional ^^) Ten percent (10%):		
152.	Additional Point	Clarification on Security issues in Jammu & Kashmir	<p>1. Since Jammu & Kashmir is a highly sensitive area, any disturbances in the area related to any cross border/any terrorism, riots or civil commotion shall be treated as Force Majeure and Contractor shall be given Time Extension & Cost Compensation in view of the same.</p> <p>2. The Employer shall support for deployment of government security force and temporary suspension of work or evacuation of project personnel due to site security conditions in case of any cross border/any terrorism, riots, civil commotion or any other disturbances in the area.</p> <p>3. Whether there will be any Wall Boundry or Fencing in the project site in view of the site security conditions.</p>	<p>1) Provision under Force Majeure shall prevail.</p> <p>2) No such condition is envisaged; however, all efforts shall be made if such situation arises.</p> <p>3) Scope in tender documents is amply clear.</p> <p>4) Provision of Bid shall prevail.</p>

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			4. If there are any threats due to Militancy/ Terrorism, will there be any mitigation plans by the Employers.	
153.	Interest Cost - Additional Clause	Additional Clause on Interest Cost	The invoices shall be settled immediately when due for payment, without any cash discount or other deduction. If Employer is in default with respect to the agreed terms of payment, it shall be liable, to pay default interest, from the due date of payment at a rate of 13% p.a. on the amount that have not been paid by the Employer.	Bid provisions shall prevail.
154.	Storage Cost - Additional Clause	Additional Clause on Storage Cost	If dispatch, delivery or Commissioning is delayed due to reasons attributable to Employer by more than one month after notice was provided by the Contractor for dispatch, delivery or Commissioning, the Employer may be charged storage costs thereafter at the rate of 0.5 % of the Subcontract price of the Works but in no event shall the aggregate storage charges exceed a total of 5% of the total Subcontract price. Thereafter, the Contract shall be deemed to be terminated at the	Bid provisions shall prevail.

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			option of Contractor. Contractor shall be free to dispose of the supply and recover damages from Employer.	
155.	Permits & Approvals - Additional Clause	Additional Clause on Permits & Approvals	Responsibility for Permits, Approvals & Licenses: Contractor will provide technical support/ assistance to Employer for taking all necessary approvals, permits & licenses from Central/ State Government/ local bodies & other competent authorities. All necessary fees shall be paid by Employer only.	Bid provisions are amply clear. Bidders are requested to refer Clause No. 11 (Section II, Volume I – Instructions to Bidder.)
156.	Sales Contract Clause - Additional Clause	Additional Clause on Sales Contract Clause	The Contractor proposes the inclusion of a below mentioned Sales Contract Clause in the Tender documents. 1. If Employer transfers goods (hardware and/ or software and/ or technology as well as corresponding documentation, regardless of the mode of provision) delivered by Contractor or works and services (including all kinds of technical support) performed by Contractor to a third party worldwide, Employer shall comply with all applicable national and	No change is envisaged.

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			<p>international (re-) export control regulations. In any event Employer shall comply with the (re-) export control regulations of the Federal Republic of Germany, of the European Union and of the United States of America.</p> <p>2. If required to conduct export control checks, Employer, upon request by Contractor, shall promptly provide Contractor with all information pertaining to particular end customer, destination and intended use of goods, works and services provided by Contractor, as well as any export control restrictions existing.</p> <p>3. Employer shall indemnify and hold harmless Contractor from and against any claim, proceeding, action, fine, loss, cost and damages arising out of or relating to any noncompliance with export control regulations by Employer, and Employer shall compensate Contractor for all losses and expenses resulting thereof, unless such noncompliance was not caused by fault of the Employer. This provision does not imply a change in burden of proof.</p>	

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157.	Price Variation Clause - Additonal Clause	Additonal Clause on Price Variation Clause	Prices of Major Components on Variable basis as per IEEMA.	Bidder's query is not clear. However, bidders are requested to refer Price variation formulas for permissible items stipulated in the Tender Documents.
158.	Qualification Requirement, Sec-III, Vol-I		<p>As the scope of work is very complex and critical and Major scope of Work is to be performed by EPC contractor only. Moreover, Major GIS OEMS are not ready to bid in JV, considering the complexity of working location.</p> <p>Hence we request you to allow EPC Bidder, who has expereince of supply, Erection, Testing & commissioning of two nos of 220KV (cummulatively 12 circuit Breaker Bays) or above voltage GIS substation, including civil works, Transformer and GIS to qualify as the sole Bidder.</p> <p>The 2 Nos of GIS substations mentioned above should have been in satisfactory operation for 2 years as on originally scheduled date of bid opening. Further, at least one (1) number of above GIS substation must have been commissioned within last seven (7) years as on the date of</p>	Provision of Bid Document shall prevail.

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			bid opening. Kindly confirm.	
159.	Land and co-ordinates		We understand that land is identified and acquired for the construction of proposed substation. Kindly confirm. Also request you to provide the co-ordinates for the proposed substation location.	Substation sites at Phyang & Drass are existing substations of PGCIL for which OGA is being provided through Amendment 4 Further, Land Details of proposed substation at Diskit are also being provided vide Amendment 4. Suitable land for construction of substation at Padum shall be handed over to successful bidder.
160.	Acess to Site Visit		As we understand, currently the roads are blocked & location is inaccessible due to extreme weather conditions, kindly confirm how to proceed with the site visit or considering the current due date submission of the subject package, request you to kindly arrange for the joint site visit. with your team.	Bidders may visit the sites on their own
161.	Vol-II, Transformer.cl no: 2.1,		As per the referred clause, "The contractor shall carry out the route survey along with the transporter and finalise the detail methodology for transportation of transformer and based on route survey; any modification/ extension/ improvement	Bidders may visit the sites on their own,

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			<p>to existing road, bridges, culverts etc. if required, shall be in the scope of the contractor."</p> <p>Since currently the routes are blocked and inaccessible due to extreme weather conditions, kindly advised us how to proceed with the route survey along with the transporter to analyse the transportation methodology for transformer and reactor. or we request you to modify the clause as "any modification/extension/improvement to existing road, bridges, culverts etc if required shall be in the scope of Employer/owner. Kindly accept and confirm.</p>	
162.	Hard copy, ITB, 9, I, (X)		<p>As per the referred clause, Bidders shall submit duly signed and stamped in original, the Performance Guarantees of the Equipments declared in Attachment-10 of Bid Forms (Envelope-1) in excel sheet. From this clause, we understand that we have to declare the losses for Transformer only and submit the original of the same.</p>	<p>Bidders are requested to refer revised Attachment 10 being issued vide Amendment 4. The same shall be required to submit in Hard as well as to be uploaded on e-Bidding portal.</p>

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			kindly confirm.	
163.	Vol-II, List of subcontractors & VOL-I, Appendix-5 List of Approved Subcontractors		List of sub-contractors mentioned in Section-Project, VOL-II is approved vendor list of JKPDD only & from the Appendix-5, list of approved subcontractors, we understand that the we can propose any approved vendors of PGCIL/JKPDD and Iso other new vendors whose approval has to be taken within 90 days from NOA. Please confirm.	The matter shall be dealt as per the provisions of the Tender Document.
164.	Completion period		Completion period is 18 Months as per the Bidding documents. From our past experiences of working in similar geographical locations with limited working period, minimum 36 months is required to complete the works in such complex nature. Also we understand that previous PGCIL J&K substations were completed and commissioned in minimum time period of 30 Months only. Hence we request you to change the completion period as 36 Months for the subject package. Kindly confirm.	Bid conditions shall prevail.
165.	Vol-1, SCC cl no: 31 (i) (a), Defect Liability		Being complex work nature, Completion & commissioning of substation will take	Bid provisions shall prevail.

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	Period		minimum 36 Months after which DLP will be commencing. Knowing the criticalities of job nature, Transformer vendors are not accepting for DLP Period of five years. Hence, We request you to consider the uniform defect liability period for all the equipments I,e 12 months from the date of Taking over/completion of facilities. Kindly confirm.	
166.	GCC, cl no: 16, Extraordinary Traffic Protection of Highways and Bridges		As per the referred clause, "The Contractor shall use every reasonable means to prevent any of the highways or bridges communicating with or on the routes to the site from being damaged by any traffic of the Contractor or any of his subcontractors and, in particular, shall select routes, choose and use vehicles and restrict and distribute loads so that any such extraordinary traffic, as will inevitably arise from the moving of Goods or his plant, equipment and machinery and materials from and to the site, shall be limited, as far as reasonably possible, and so that no unnecessary damage may be occasioned to such highways and bridges. In case,	Bid provisions shall prevail.

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			however, highways and bridges are damaged on account of movement of any traffic of the Contractor, he shall be liable to restore the highways and bridges to their original condition at his expense." We ensure that all the heavy vehicles will be moved with prior permission and approval from the concerned authorities of highways/Bridges. Hence we request you to remove this clause, as it will have huge commercial implication.	
167.	Details for civil designing & estimation		We understand that the civil works is on Lumpsum basis, hence we request you to provide the soil investigation, contour details, FGL, high flood level, etc which is very important for civil designing and estimation. As the location is currently inaccessible, we request you to provide these detail, as these details are the key factors and critical for designing the substation. Please confirm.	The provided land will be suitable for construction of substation as per scope. However, to address the issue of site levelling, suitable provisions is being made via Amendment 4
168.	VOL-II, Mandatory Spares		Mandatory spares are to be supplied as per the annexure -I, Vol-II, section-I. Kindly Confirm.	Bidder understanding is in order.
169.	GENERAL'operation &		Kindly confirm that the operation &	Bid Provisions in this regard are

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	Maintenance		Maintenance of the substation is not in the scope of Bidder.	amply clear.
170.	Delay in commissioning		If commissioning or other works are delayed for reasons not attributable to Bidder and is delayed for the reasons attributable to RECTPL/JKPDD or because of Force majeure conditions, then RECTPL will not delay the final payment. It shall be paid within 45 days of readiness of facilities on submission of BG for the equivalent amount .Kindly confirm	Delay due to RECTPCL/JKPCL/LPCL is not envisaged.
171.			Please confirm any bridge strengthening works/ROW /statutory clearances and any other permission required to cross the road/bridges in between the locations will be in RECTPL/JKPDD scope.	In case of any requirement of Road widening, bridge strengthening etc. the same shall be in the Scope of Owner/Employer.
172.			Please confirm BOCW Cess of 1% is applicable on civil and installation only	Bidders are requested to ascertain by themselves.
173.	General		Please provide the client Estimate for the subject package.	Bidders are requested to submit their best prices.
174.			EMD for the subject package is 23, 40,000/- in the form of Bank Guarantee. Please confirm.	Confirmed.
175.	Section-I IFB Cl-3.1 (c)		As per referred clauses, it is mentioned as " Single Line Diagram, Electrical Equipment	Bidders are requested to refer Amendment 4.

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	Vol-II, Sec-I Project Cl-4.1.1.1 Vol-II, Sec-I Project Cl-4.3.1.1		Layout, General Arrangement Drawing of GIS Hall for Padum, Diskit are enclosed with tender documents." However there are no such drawings are enclosed with tender documents. Hence we request you to furnish the followings drawings for proposed Padum & Diskit Substations: i) Single Line Diagram (220& 33kV) ii) Tentative GA Layout indicating plot / boundary dimensions of proposed Substations including 33kV & 220kV Line Termination Towers.	
176.	Section-I IFB Cl-3.1 (c) Vol-II, Sec-I Project Cl-4.1.1.1 Vol-II, Sec-I Project Cl-4.3.1.1 Technical Specification, VOL-II, SEC-I Project, Cl. 4.3, Pg 274/1302 Drass Extension Technical Specification, VOL-II, SEC-I Project, Cl. 4.3, Pg 274/1302		As per referred clauses, it is mentioned as "Single Line Diagram, Electrical Equipment Layout, General Arrangement Drawing of GIS Hall for Phyang& Drass are enclosed with tender documents." However there is no such drawings are enclosed with tender documents. Hence we request you to furnish the followings drawings/documents of existing Phyang & Drass substations : i) Existing Station Single Line Diagram ii) Existing Station GA Layout indicating plot / boundary dimensions .	Bidders are requested to refer Amendment 4.

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	Phyang extension SS		iii) Existing GIS, LCR & Control Building layout (indicating all dimensions) iv) Existing Earthing Layout v) Existing Cable Trench Layout vi) Existing model of 220kV GIS Hyosung module and type of phase encapsulation of GIS. vii) We understand that End Piece module with the test link for Future extension of Bus bar module is available with existing GIS or Not?	
177.	Technical Specification, VOL-II, SEC-I Project, Cl. 4.3, Pg 274/1302 Phyang extension SS		We presume that illumination, VMS (if any), earthing, cable trench and cable tray for proposed 1 Nos of 220kV line bay are already available in existing 220kV GIS building for Phyang substation . Please confirm.	Bidder are requested to quote as per BPS.
178.	Diskit BPS Line Item A-1.1(c) Padum BPS Line Item A-1.1(c), A-2(d)		As per referred line item, quantity of Nitrogen Injection Fire Fighting System is mentioned as 3 Nos. However, 16.67MVA Transformer & 8.35 MVAR Reactor are mentioned as 4 Nos (Including Spare). Hence, please check and confirm that there is no requirement of NIFPES for spare Trafo/Reactor.	BPS/Specification is amply clear. Provision of Bid Document shall prevail.

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179.	Diskit BPS Line Item B-1, C-1 Padum BPS Line Item B-1,C-1		As per Section-Project, 4# Transformers shall be supplied including 1# Spare at Diskit & Padum and 4# Reactors shall be supplied including 1# Spare at Padum. Further as per Section-Project, Annexure-II, Typical GIS SLD, we understand that Switching arrangement of Spare Transformer and Reactors are achieved through GIS Auxiliary Bus (for 220kV & 33kV) with isolator based switching arrangement. However, there is no separate line item for Auxiliary bus is mentioned in BPS (for both 220kV& 33kV). Hence we request you to check and revise BPS accordingly.	Specification & BOQ is amply clear. Bidders are requested to quote as per BPS.
180.	Diskit BPS Line Item B-1(e),B2-i Padum BPS Line Item B-1		As per Section-Project, 4# Transformers shall be supplied including 1# Spare at Diskit & Padum and 4# Reactors shall be supplied including 1# Spare at Padum. However, all 220 & 33kV AIS equipment are mentioned for 3# Power Transformer & 3# Reactors only. Since there is no manual shifting of Transformer/Reactor, we understand that AIS Equipment are required for Spare Transformer/Reactor	Specification & BOQ is amply clear. Bidders are requested to quote as per BPS.

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			also. Request you to check and revise BPS accordingly.	
181.	Diskit BPS Line Item D(a) Padum BPS Line Item D(a)		As per referred line items, it is mentioned that "SF6 Gas filling and evacuating plant for 220& 36kV GIS- 1 Set" However, we understand that common SF6 Gas filling and evacuating plant shall be provided for 220 & 33kV GIS. Please confirm.	Bidders are requested to quote as per BPS.
182.	Diskit BPS Line Item E Padum BPS Line Item E		As per referred line Item, we understand that there is no separate line item for 220kV Bus coupler CRP. We request you to check and revise BPS accordingly.	There are two nos. CB relay panel with auto reclosure out of which one no. is for 220kv line and other for Bus coupler.
183.	Diskit BPS Line Item M Padum BPS Line Item- Part B-A		As per referred line items we understand that 33kV Cable Termination kits are duplicated. Hence we request you to check and confirm, on which line item 33kV Cable terminations has to be considered.	Bidders are requested to quote as per BPS.
184.	Technical Specification, VOL-II, SEC-I Project, Cl. 6.2, Pg 280/1302 Vol-II, Section-I (Annexure-III), Pg 314/1302		As per Cl. 6.2, Altitude for Diskit and Padum Substations are mentioned as 3100m and 3700m. However as per Annexure III, Altitude for Diskit and Padum SS are mentioned as 3101m and 3557m. As both the clauses are contradicting each other, please confirm the actual Altitude to	Bidders are requested to refer Amendment 4.

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			be considered.	
185.	Section-II, IFB,Cl-11.3 Section-IX,Sample Form and Procedures Appendix-7,cl-4.7 & Vol-II, Section-I (Annexure-VIII)		As per referred clauses, for 8.35MVAR, 245kV Single Phase Shunt Reactor, neither loss values are mentioned nor capitalization of losses is indicated. Kindly clarify the same.	Bidders are requested to refer Amendment 4.
186.	Vol-II, Sec-I Project Cl-4.1.2 (SI.No-b&c) Cl-4.2.2		As per referred clause, it is mentioned as "GIS Cable termination enclosure with isolating link, cable termination kit for making connection to 36kV XLPE cable. 36kV cable termination arrangement is to be finalized considering cable sizes of 630 Sq.mm and One no. of runs per phase for line feeders" As per Vol-II, Section IV (Indoor Switchgear) 33kV GIS,cl-7, it is mentioned that "Cable Termination arrangement including cable end Plugs" It may be Noted.. that, for GIS, the breaker is placed inside the gas tank & sealed off and is not accessible. Hence taking out the	Bidders are requested to refer SLD being issued vide Amendment 4.

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			breaker is not feasible & the requirement of the Line Side Isolator is nullified here. However, the positive isolation of Cable side is guaranteed by switching off Bus Side Isolator and CB. Hence, line side isolating link / Disconnectors are not necessary. Hence, we would supply 33kV GIS in line with Vol-II, Section IV (Indoor Switchgear) 33kV GIS,cl-7 without Isolating link/Disconnecter. Please accept.	
187.	Vol-II, Sec-I Project Cl-4.1.3& 4.2.3		As per referred clause, it is mentioned as "For 33kV GIS Bays, the requirement & specification for complete relay and protection system shall be as specified in Chapter 3B of Tech. Specs" However, as there is no Chapter 3B of Tech. Specs, we understand that all protection shall be provided as per Vol-II, Section IV (Indoor Switchgear) 33kV GIS i.e., CRP shall be integral part of 33kV GIS and separate CRP for 33kV System is not required. Please confirm.	Bidder understanding is in order.
188.	Vol-II, Sec-I Project Cl-4.1.3(n)		As per referred clause, it is mentioned as " The capacity for batteries and battery chargers shall be worked out by the	Bidders are requested to quote as per BPS.

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			<p>Contractor for the present and future bays as shown in the Single Line Diagram of the substation and shall be subject to Owner's approval"</p> <p>However, as per,vol-II,section-Project,Cl-7, it is mentioned that "All equipment/items and civil works for which quantities has been given in the BPS (Vol. III) shall be payable on unit rate basis. During actual execution, any variation in such quantities shall be paid based on the unit rate under each item incorporated in the letter of award"</p> <p>Hence, we understand that, we have to quote in line with BPS and any changes in quantities / ratings shall be dealt separately during engineering. Please confirm.</p>	
189.	Vol-II, Sec-I Project Cl-4.1.1.1 Cl-4.1.3(x) Cl-4.2.3 (y)		<p>As per referred clause, it is mentioned as " Any other equipment/material required to complete the specified scope."</p> <p>However, as per,vol-II,section-Project,Cl-7, it is mentioned that "All equipment/items and civil works for which quantities has been given in the BPS (Vol. III) shall be</p>	Bidders are requested to quote as per BPS.

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			<p>payable on unit rate basis. During actual execution, any variation in such quantities shall be paid based on the unit rate under each item incorporated in the letter of award"</p> <p>Hence, we understand that, we have to quote inline with BPS. any changes in quantities/ratings shall be payable extra during engineering. Please confirm.</p>	
190.	Vol-II, Sec-I Project Cl-4.1.3(y) Cl-4.2.3(z) Cl-4.3.2		<p>1) As per referred clause, it is mentioned as "Type tests shall not be required to be carried out for which valid type test certificates are available for the Equipment rating mentioned in the BOQ. If the offered design has not been tested earlier, bidder shall be required to carry out the testing. However, no extra payment shall be made to the contractor."</p> <p>2) As per Section GTR,Cl-9.2, it is mentioned as "The reports for all type tests as per technical specification shall be furnished by the Contractor along with equipment / material drawings. The type tests conducted earlier should have either been conducted in accredited laboratory</p>	<p>Bid provisions in this regard are amply clear.</p>

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			<p>(accredited based on ISO / IEC Guide 25 / 17025 or EN 45001 by the national accreditation body of the country where laboratory is located) or witnessed by Utility or representative of accredited test lab or reputed consultant."</p> <p>3) As per Section GTR,CI-9.2, it is mentioned as "220/132/110/33kV* or higher Voltage class equipment(s) must have been manufactured in the above Indian works & type tested (as per IEC/IS standard) and supplied as on the date of bid opening."</p> <p>We understand that, Bidder need not repeat the Type tests, if Type Test Reports of equipment with same or higher Rating of Equipment is available. Please confirm.</p>	
191.	Vol-II, Sec-I Project Cl-4.1.6 Cl-4.2.6		As per referred clause, it is mentioned as "PEB Building for 220kV GIS Hall and RCC Structure Building for 36 kV GIS Panel Room. The size of 220 kV & 36kV GIS Building shall be suitable to accommodate 220kV & 36kV bays respectively including space of maintenance bay, extension piece	Bidder is to quote as per BPS. It is also requested to refer GA & SLD in this regard.

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			<p>module, Space for future Bays etc." Since, there is no future bay requirement as per Section-Project, we shall design GIS building considering the number of bays mentioned in scope of works. Please confirm.</p>	
192.	Vol-II, Sec-I Project Cl-4.4		<p>1) As per referred clause, it is mentioned as "In the existing 220kV GIS of Hyosung make at Drass S/S, one line bay is to be extended for which Space is available to accommodate bay on Floor but space is not available on wall to accommodate Wall mounted SF6 to Air Bushing in delta formation on the wall" 2) As per C l-4.4.1.1, it is mentioned as "Extension of Building by 6m approx. in length to accommodate one Line bay" 3) As per C l-4.4.1.1, it is mentioned as "All relay panels shall be placed in relay room of GIS hall"</p> <p>With the above clauses, we understand the following; i) Our scope is limited to extension of existing 220kV GIS building only by 6 mtrs.</p>	<p>i) Bidder understanding is in order subject to meeting</p>

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			ii) Extension of GIS Relay panel room is not in our scope and presume that, sufficient space is available in existing Relay room to install proposed C&R Panels. Please confirm.	requirement of other relevant clauses of the specification. ii) Confirmed
193.	Vol-II, SEC-II GTR Annexure-B seismic withstanding		As per referred clause, it is mentioned as "The seismic withstanding test on the complete equipment (for 132kV and above) shall be carried out along with supporting structure" However, as per Vol-II, Sec-III, GIS, Cl-18.1, it is mentioned as " If the equipment has not been type tested earlier, Test Report/Analysis Report should be furnished." Hence, due to test bed limitations at laboratories, we shall furnish seismic withstanding analysis report for offered GIS inline with Vol-II, Sec-III, GIS, Cl-18.1. Please accept.	Bidders are requested to refer relevant provisions of Tender Document in this regard.
194.	VOL-II, SEC-III GIS Cl-5.8		As per referred clause, it is mentioned as " The material and thickness of the enclosures shall be such as to withstand an internal flash over without burns through for a period of 300 ms at rated short time withstand current.	Provision of Bid Document shall prevail.

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			<p>The material shall be such that it has no effect of environment as well as from the by-products of SF6 breakdown under arcing condition. This shall be validated with Type Test."</p> <p>However the burn-through period is categorically defined in the IEC for the respective fault levels (Table 4 of IEC 62271-203) and same shall be complied accordingly. Request you to accept.</p>	
195.	VOL-II, SEC-III GIS Cl-5.37		<p>As per referred clause, it is mentioned as "The enclosure shall be designed for the mechanical and thermal loads to which it is subjected in service. The enclosure shall be manufactured and tested according to the pressure vessel code (ASME/CENELEC code for pressure Vessel.)</p> <p>However, as material codes are country based codes, for pressure vessel code, we shall follow codes Equivalent to EN code (ENAC-42100)/ASME/CENELEC based on GIS Manufacturer. We shall furnish pressure test reports for enclosures as per Cl. 6.103-IEC 62271-203:2011.</p> <p>Please accept.</p>	EN Code is acceptable subject to pressure test reports meeting requirement of clause no. 5.37 of specification.

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196.	VOL-II, SEC-III GIS CI-5.40		As per referred clause, it is mentioned as " Maximum weight of gas in a gas tight section of GIB shall not exceed 250 Kg (for 220 kV &132 kV). The horizontal clearance between GIB and GIS building /any other building wall shall be preferably three (3) meters" However, the weight and the clearances between bus ducts are driven by the equipment dimensions and manufacture specific . Request to accept the same in line with manufacturer's standard dimensions.	Provision of Bid Document shall prevail.
197.	VOL-II, SEC-III GIS CI-5.40		As per referred clause, it is mentioned as "The horizontal clearance between GIB and GIS building /any other building wall shall be preferably three (3) meters" It shall be Noted.. that, for GIB Support structure, 1 metre distance will be sufficient from wall to GIB duct, however minimum required space between building to GIB shall be decided during detailed structure designing for an optimum layout and also to accommodate the future feeder GIB. Please accept.	Provision of Bid Document shall prevail.
198.	VOL-II, SEC-III		As per referred clause, it is mentioned as "	Bidders has to meet the

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	GIS CI-7.2.2		Disconnectors shall be suitable to switch the bus charging currents during their opening and closing and shall confirm to all three test duties viz. TD1, TD2 and TD3 as per Annexure –F of IEC: 62271- 102." However TD2 duty is not applicable as the CB is not equipped with parallel capacitors, the same is in line with IEC Please confirm.	requirement as per applicable IEC and Tender specifications.
199.	VOL-II, SEC-III GIS CI-14.1.1		As per referred clause, it is mentioned as "The transformer / reactor termination module enables a direct transition from the SF6 gas insulation to the bushing of an oil-insulated transformer / reactor. For this purpose, the transformer/reactor bushing must be oil-tight, gas-tight and pressure resistant. Any temperature related movement and irregular setting of the switchgear's or transformer's/reactor's foundations are absorbed by the expansion fitting." However as per BPS, we understand that Transformer & Reactors shall be connected with SF6-Air Bushing. Hence, we are not envisaging direct transition from the SF6	Bidder understanding in this regard is in order.

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			gas insulation to the bushing of an oil-insulated transformer / reactor	
200.	VOL-II, SEC-III GIS CI-15.2.1		<p>As per referred clause, it is mentioned as " Local Control cubicle shall be either mounted on the GIS with front access or free standing,</p> <p>However, as per CI-15.2.6, Local control cubicles shall be provided to be free standing and shall be equipped with anticondensation heaters. A suitable humidity stat and thermostat shall be included in the heater circuit."</p> <p>As both the clauses are contradicting each other, we understand that Integrated / Stand alone LCCs are acceptable for the subject project. Please confirm.</p>	Provision of Bid Document shall prevail.
201.	VOL-II, SEC-III GIS CI-19.6		<p>As per referred clause, it is mentioned that "The scope of such a design review shall at least include the following:</p> <ol style="list-style-type: none"> 1. Dielectric Stress of Solid Insulation like Gas Barrier, support insulator etc. 2. Dielectric stress of SF6 Gas Volume. 3. Mechanical strength of enclosure, expansion joints etc. 	Bid provisions in this regard are amply clear and same have to be complied

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			<p>4. Criteria for providing expansion joint. 5. Sealing system 6. Insulation coordination 7. Thermal stress and resulting increase in gas pressure during short circuit condition. 8. Earthing of enclosure w.r.t circulating current. 9. Seismic design, as per IEC 62271-207 10. Circuit Breaker . 11. Isolator and Earth switch. 12. Voltage transformer. 13. Current Transformer. 14. Surge Arrester. 15. Bushing. 16. Ducting. 17. Corrosion protection.</p> <p>However, the above documents are Intellectual property of Manufacturer & no such information shall be demonstrated. We shall consider adequate design provisions considered in our offered GIS. Please accept.</p>	
202.	VOL-II, SEC-III GIS		As per referred clause, it is mentioned that " the manufacturer shall furnish the	Bid provisions in this regard are amply clear and same have to be

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	CI-19.7		<p>following information</p> <p>a) Details regarding the loosely distributed metallic particles within the GIS encapsulation and calculations of critical field strength for specific particles of defined mass and geometry.</p> <p>b) Study report of VFTO generated for GIS installation.</p> <p>c) The methodology and all the equipment for electrical partial discharge (PD) detection, including that mentioned in the specification else-where.</p> <p>d) The calculations and documents in support of the average intensity of electromagnetic field on the surface of the enclosure above during detailed engineering.</p> <p>e) The detailed criteria/ design regarding location of pressure relief devices/rupture diaphragms</p> <p>f) Calculations to show that there is no Ferro resonance due to capacitance of GIS for the voltage transformers</p> <p>g) Design calculation for simulated parameters for Seismic level as applicable</p>	complied

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			<p>h) Insulation Coordination studies including studies to recommend for additional surge arrestor</p> <p>i) Calculation in support of touch & step voltages in all enclosures and earthing of complete GIS installation.</p> <p>j) Measures to mitigate transient enclosure voltage by high frequency currents.</p> <p>k) Calculation for providing bus duct supports"</p> <p>However, the above documents are Intellectual property of Manufacturer & no such information shall be demonstrated. We shall consider adequate design provisions considered in our offered GIS. Please accept.</p>	
203.	VOL-II, SEC-III GIS CI-20		<p>As per referred clause, it is mentioned that "The test reports of the above type tests for GIS (including type test report on Circuit breaker, Disconnectors, Grounding switches, Current and Voltage transformers as per relevant IEC and type tests of SF6/Air & Oil bushing as per IEC 60137 shall be submitted for approval as per Section- GTR, Technical Specification."</p>	<p>Bid provisions in this regard are amply clear and same have to be complied.</p>

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			However we shall submit the same during detail engineering if required. Please confirm.	
204.	VOL-II, SEC-III GIS CI-22		As per referred clause, it is mentioned that " All transport packages containing critical units viz Circuit breakers and Voltage transformers shall be provided with sufficient number of electronic impact recorders (on returnable basis) during transportation to measure the magnitude and duration of the impact in all three directions." However Shock indicators shall be provided only for VTs being a sensitive equipment. No electronic impact recorders are necessary for Circuit Breaker. Please accept the same.	Bid provisions in this regard are amply clear and same have to be complied.
205.	VOL-II, SEC-III GIS Annexure-1 (CB) ANNEXURE-2 (DS)		As per referred clause, it is mentioned as "Rated continuous current (A)-1600/3000A Rated short circuit capacity-50/40kA." However, as per VOL-II, SECTION-I (Projects), it is mentioned as Rated continuous current (A)-1600A for Line/ Trafo Bays, 2500A for Bus coupler, Rated	Bidder understanding in this regard is correct. Bidders are also requested to refer Amendment 4.

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			STC is mentioned as 40kA for 1 Second. We presume that, we have to follow Section-project in this regard. Kindly confirm.	
206.	Vol-II, Section IV (Indoor Switchgear) 33kV GIS CI-9		As per referred clause, it is mentioned as" Short time rating for bus bars, CB, CT and switchgear Assembly is mentioned as 25kA/1 Sec" However, as per Section-Project , short time rating current for 33kV GIS is mentioned as 25kA/3 Sec. We presume that, we have to follow Section-project in this regard. Kindly confirm.	Bidder understanding in this regard is correct. Bidders are also requested to refer Amendment 4.
207.	Vol-II, Section IV (Indoor Switchgear) 33kV GIS CI-9		As per referred clause, it is mentioned as" Rated Current for Incomer Breaker -1600A Outgoing feeder Breaker-1250A" However, as per section project the rated current for circuit breaker is mentioned as for Incomer/Outgoing-1250A, and Bus Coupler -2500A. We presume that, we have to follow Section-project in this regard. Kindly confirm.	Bidder understanding in this regard is correct. Bidders are requested to refer Amendment 4.
208.	VOL-II, SEC-VI (LT		As per referred clause, rating of Lighting	Bidders are requested to refer

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	Switchgear) 1.26.11		Transformer is mentioned as 100KVA. However as per SLD for Main Lighting Board, it is mentioned as 25KVA. As both the clauses are contradicting each other, please confirm the actual requirement.	revised SLD being issued vide Amendment 4.
209.	VOL-II, SEC-VIII(Lighting System)		As per the referred specification, conventional fittings are mentioned for illumination. However due to non-availability of conventional fitting we shall propose LED fittings for the proposed substation. Kindly accept. Also, request you to furnish specification for LED fittings along with specific requirement of lux level for the proposed substation.	Bidder is to meet lux level and LED fitting requirement (refer note in Lighting system) as defined in specification.
210.	VOL-II, SEC-IX (LT Transformer)		In referred clause of technical specification, IS-2026 is mentioned as the applicable standard. However, as per recent amendments by Bureau of Indian Standards / Bureau of Energy Efficiency & notified in Gazette, all manufacturers are instructed to manufacture distribution class transformers in line with IS 1180 only. As per the gazette notification, total loss figures of distribution transformers	In regard to loss in L.T. Transformer, Bidder may offer Energy Efficiency level 3 L.T Transformer in line with IS 1180 Part -1 , 2014 Bidders are requested to refer Amendment 4.

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			are indicated for loading conditions only (50% and 100%). Separate iron & copper losses are not indicated. Further, loss figures are pre-defined in gazette amendment for various ratings, corresponding to appropriate star ratings. Hence, we request REC to check and confirm the star rating (as per IS 1180) required for this project.	
211.	VOL-II, SEC-XVII (Control And Relay Panel)		As per referred specification, we understand that, there is no detailed BOQ furnished for 220kV Bus Coupler & 33kV Bus Sectionalizer. Kindly furnish the same.	There are two nos. CB relay panel with auto-reclosure out of which one no. is for 220kv line and other for Bus coupler. Regarding 33kV Bus Sectionalizer, it is part of 33kV Bus Bar where in CB, Disconnecter, earthswitch and CT,s PT,s are covered. Please refer Clause no. 4.1.2 a i) of section Project and SLD.
212.	VOL-II, SEC-XVIII (Substation And Automation System) CI-10.1		As per referred clause, it is mentioned as" Contractor personnel who are experienced instructors and who speak understandable English shall conduct training. The	Bidders are requested to refer Amendment 4.

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			contractor shall arrange on its own cost all hardware training platform required for successful training and understanding in Nepal" Kindly confirm once again whether the training has to be conducted in Nepal.	
213.	VOL-II, SEC-XIX SECTION- TRANSFORMER CI-1.2		As per referred clause, it is mentioned as "The transformers shall in general have constant ohmic impedance between HV and IV on all taps." However, impedance pattern mentioned in Vol-II, Section-I (Annexure-VII), we understand that $(220/\sqrt{3}) / (33/\sqrt{3})$, 16.67 MVA Power Transformer shall be Constant percentage Impedance Type. Please confirm.	Transformer shall be Constant Ohmic impedance type only in line clause no. 1.2. Please consider 1.7 of Annexure VII as follows: - HV/LV impedance at 75 deg. C Maximum voltage tap- 10.30% Principal tap – 12.5% Minimum voltage tap- 15.40 %
214.	VOL-II, SEC-XIX SECTION- TRANSFORMER CI-3.6		As per referred clause, it is mentioned as" The short circuit level of the HV & IV System to which the transformers will be connected is as follows: 220kV system- 40 kA for 1 sec (sym, rms, 3 phase fault) 33kV system- 25 kA for 1 sec (sym, rms, 3 phase fault) " However, as per Section-Project, STC of 33kV Systems are mentioned as 25kA for 3	Please refer clause no. 8.0 of section Project Bidders are requested to refer SLD being issued vide Amendment 4.

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			Sec. As both clauses are contradicting, please confirm the actual requirement.	
215.	VOL-II, SEC-XIX SECTION- TRANSFORMER CI-3.13.2		As per referred clause, it is mentioned as" design review of offered 220 kV class transformers shall be carried out based on design of short circuit tested 220 kV or above voltage class transformer." As the offered transformer is of unique rating as well as availability of limited manufacturers for this rating, we request you to accept conducting design review of offered 220 kV class transformers based on calculations in line with relevant Standards.	Provision of Bid Document shall prevail.
216.	VOL-II, SEC-XIX SECTION- TRANSFORMER CI-4 VOL-II, SEC-XX (BUS Reactor) CI-4		As per referred clause it is mentioned that "Manufacturer shall provide additional warrantee of five years (in addition to the warrantee specified in the bidding documents) for the Transformer in case any of the conditions specified in specification are observed with in specified warrantee period " However we would like to clarify that value mentioned under specified clause will	Bid provisions shall prevail.

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			depend on a lot factors including Routine maintenance, Operating conditions, Site conditions etc. Since the above mentioned factors are not in control of manufacturer/ Contractor, we would like clarify that we are not in a position to accept additional warrantee for the same. However we confirm that we will take utmost care during design and manufacturing at vendor works to maintain the quality of transformers. and the interpretation of fault gases will as per any other mutually agreed interpretation method of DGA published by CIGRE, IEC or IEEE. Please confirm/accept	
217.	VOL-II, SEC-XIX SECTION- TRANSFORMER CI-15.4.2		As per referred clause it is mentioned that " For new substation, the contractor shall provide Digital RTCC panel consisting of 4 Nos. Digital RTCC relays. Further, one spare Digital RTCC relay shall also be provided in the same panel. Each digital RTCC relay shall be used to control 1 bank of transformers (i.e. 3 Nos. 1-Phase units or 1 No. 3-Phase unit)" However as per section project & BPS, it is	Bidder is to supply Digital RTCC Panel with two RTCC relays as per Section Project & BPS. However, all other technical requirement of RTCC Panel shall be as per Section - Transformer Clause 15.4.2. Bidders are requested to refer Amendment 4.

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			mentioned that "Digital RTCC panel shall have two RTCC relays where one Digital RTCC relay shall control 1 bank (i.e. 4 Single Phase units) and second RTCC relay shall be supplied as spare mounted on Digital Panel." As above clauses are contradicting, we understand that Digital RTCC shall be supplied inline with BPS.	
218.	VOL-II, SEC-XIX SECTION- TRANSFORMER CI-19 VOL-II, SEC-XX (BUS Reactor) CI-28		As per referred clause it is mentioned that "One set of hand tools of reputed make packed in a carry bag/box broadly comprising of double ended spanners (open jaws, cranked ring, tubular with Tommy bar each of sizes 9mm to 24mm, one set each), adjustable wrenches (8 &12 inch one set), gasket punches (of different sizes used - one set), pliers (flat nose, round nose & side cutting one of each type), hammer with handle (one), files with handle (two), knife with handle (one), adjustable hacksaw (one), and cold chisel (one), bushing handling and lifting tools with nylon rope/belt, chain block (2 Nos.) and D-Shackle shall be supplied."	Bidder is to supply as per BPS.

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			However, as there is no specific requirement mentioned in BPS, we are not envisaging the same in our scope of supply. Please confirm. If required, please include separate line item for the same in BPS.	
219.	VOL-II, SEC-XIX SECTION- TRANSFORMER CI-20		As per referred clause it is mentioned that "DGA Kit as per Annexure-K of specification." However, as there is no separate line item for the same in BPS. We are not envisaging the same in our scope of supply. If required, please include separate line item for the same in BPS.	Bidder is to supply as per BPS.
220.	VOL-II, SEC-XIX SECTION- TRANSFORMER Annexure – G		As per referred clause of technical specification, there is no technical parameters of bushing Current Transformers are available for 16.67 MVA transformer. Please furnish the same.	Shall be decided during detailed Engineering
221.	VOL-II, SEC-XX (BUS Reactor) Annexure – H		As per referred clause of technical specification, there is no technical parameters of bushing Current Transformers are available for 8.35MVAR Reactor. Please furnish the same.	Shall be decided during detailed Engineering
222.	Bay Extension at		Kindly furnish the following details	Existing SAS is of GE make.

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	Phyang, Drass SS, SAS.		<p>pertaining to Existing:</p> <p>a) Make and model no. of existing SAS (or) RTU</p> <p>b) Whether the Protection system are BCU based with IEC61850 or RTU based</p> <p>c) Whether the remote end panels along with BCU is already available or BCU has to be included under present scope?</p>	<p>Protection system is BCU based. BCU has to be included in present scope.</p> <p>Bidders are also requested to refer drawings being issued vide Amendment 4 in this regard</p>
223.	Bay Extension at Phyang, Drass SS, Bus bar integration.		<p>Kindly furnish the following details for bus bar integration of existing substations:</p> <p>a) Make and model no. of the existing bus bar protection</p> <p>b) Single/Redundant Bus bar Protection</p>	<p>a) Existing Bus Bar system is of GE make. Model will be shared with successful bidder.</p> <p>b) Single Bus bar Protection</p>
224.	Bay Extension at Phyang, Drass SS, Communication		<p>Please furnish the following for communication at existing substations:</p> <p>1) Make & Model of existing FOTE.</p> <p>2) Existing make of SCADA & Software version at existing Station.</p> <p>Further, We presume that, our scope of work is limited to integration with existing Station only. We are not envisaging any modification of software / hardware at existing stations.</p>	<p>Make of FOTE shall be shared with successful Bidder.</p> <p>Existing SAS make is GE</p> <p>Integration is required for existing S/S. Any hardware or software required for integration of present bay scope with existing SS is part of present scope.</p> <p>Bidder is to provide data up to</p>

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			<p>Further, we presume that suitable communication links are already available between existing SS to SLDC/RLDC Station. We are not envisaging any communication links in our scope of supply.</p> <p>Please Confirm.</p>	substation gateway.
225.	Bay Extension at Phyang, Drass SS, Earthing & earth mat		<p>We presume that existing earth mat is available at existing station. And our scope is only to extend existing earth mat in area under present scope with the same spacing. We request you to confirm the spacing between main mat of existing substation & the details of Main mat material for our understanding. We also understand that there is no requirement of any soil treatment at the existing station. Please confirm.</p>	<p>Earth mat is already laid for entire S/S.</p> <p>Bidders are requested to refer Earth-mat drawing being issued vide Amendment 4.</p> <p>Bidder is also advised to visit site and gather relevant information if so desire.</p>
226.	Bay Extension at Phyang, Drass SS, Cable trench at remote		<p>We presume that existing cable trench is sufficient to cater present scope of cable. Our scope is limited to construction of cable trench for present scope of bay which in turn gets connected to the existing Main cable trench available near the present</p>	<p>Cable trench is required for present bay only. However, cable laying in the existing cable trench for the bay extension work shall be in the scope of successful</p>

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Project	:	Name of Work: Design, Manufacturing, Supply, Erection, Testing & Commissioning of below mentioned Substations and bay on Turnkey Basis associated with Strengthening of Transmission System of JKPD under PMDP Scheme-15:- i) 220/33 kV GIS Substation at Diskit (Nubra) ii) 220/33 kV GIS Substation at Padum (Zanskar) iii) 220kV Line Bay at PGCIL's existing GIS Substation at Phyang iv) 220kV Line Bay at PGCIL's existing GIS Substation at Drass
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			scope of bays. Please confirm.	bidder. Bidder may also refer drawing of existing cable trench being issued through Amendment 4.
227.	Bay Extension at Phyang, Drass SS, LT switchgear /Battery & Battery charger		We presume that sufficient number feeders/ capacity is already available in existing MSB, ACDB, MLDB, ELDB, 220/110V DCDB, 48V DCDB, 220/110V DC battery bank and 48V DC battery bank to accommodate present scope extension bays and hence Augmentation of above switchboards & Batteries are not considered. Please confirm.	AC / DC feeder in ACDB and DCDB are available for line bay extension.
228.	Bay Extension at Phyang, Drass SS, Switchyard Illumination		Please confirm whether existing switchyard illumination is adequate for proposed line bays or not.	Provision of Bid Document shall prevail. Bidders are requested to quote as per BPS.
229.	Vol-II, Section-I(Projects), pg.no:7 of 31, Clause 4.1.1.1 vi, pg.no:15 of 31, Clause 4.2.1.1 g, pg.no:22 of 31, Clause 4.3.1.1 d & pg.no:25 of 31, Clause 4.4.1.1 d		It is mentioned in referred clause that, tentative layout/GA drawing of Diskit, Padum, Phyang & Drass is enclosed with tender document. However the same is not enclosed. Please furnish the same.	Bidders are requested to refer Amendment 4.

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230.	Vol-II, Section-I(Projects), pg.no:12 of 31, Clause 4.1.6, pg.no:20 of 31, Clause 4.2.6 and Price schedule-3, Sl no:B.1		Residential quarters not mentioned in scope of work. However, item is included in price schedule. We trust that, the same is in bidder scope as per price schedule. Please confirm.	Bidders are requested to refer revised Scope of Works being issued vide Amendment 4. Bidders are also requested to refer "Technical Specification Vol-II, Sec-16 Part-2 Civil Works (Residential Staff Quarter)" in this regard and quote as per BPS.
231.	Price schedule-3, Part-C, Sl no:7 ii a, b		In price schedule, quantity of GIS Hall & AHU room and panel room is given separately. It is mentioned that, GIS Hall shall be PEB type as per TS. However the AHU room and panel room type is not mentioned. We trust that, the same also PEB type. Please confirm.	The GIS hall shall be PEB structure. The AHU and Panel Room shall be RCC column and Brick work structure.
232.	Vol-II, Section-XVI(Part-2), pg.no:2 of 24, Clause a & Price schedule-3, Sl no:B.1		As per referred clause, boundary wall is required for residential staff quarters & other buildings. However in price schedule item for the same is not included. Please include the same.	Bidders are requested to refer revised BPS being issued vide Amendment 4.
233.	Vol-II, Section-I(Projects), pg.no:21 of 31, Clause 4.3		It is mentioned in referred clause that, one line bay is to be extended for which space is available to accommodate line bay module	Bidders are requested to refer Section Projects in this regard, where Scope is amply clear.

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			<p>on the floor.</p> <p>We trust that, GIS foundation and associated cable trench/grove is already available for the proposed line bay in the existing building. Please confirm.</p> <p>Also, Please furnish the existing GIS building drawing, in order to check the space availability and access the required quantity.</p>	<p>Bidders are requested to refer Amendment 4 for existing GIS building..</p>
234.	<p>Vol-II, Section-I(Projects), pg.no:23 of 31, Clause 4.3.4 & Price schedule-3, Part-C, Sl no:1 and Vol-II, Section-I(Projects), pg.no:26 of 31, Clause 4.4.4 & Price schedule-3, Part-C, Sl no:1 & 2</p>		<p>As per referred clause, foundation of GIS switchgear, bus duct foundation & buried cable trench is in bidder scope. However, in price schedule, item for the same is not included. Please include.</p> <p>Also, metal spreading quantity is not included in price schedule. Please include, if the same is required for the proposed bay extension area.</p>	<p>The Civil works for foundations are in the scope of the Successful Bidder and same is included in the TS (please refer Cl. No. 4.3.4 & 4.4.4 of Section Projects)</p>
235.	<p>Vol-II, Section-I(Projects), pg.no:26 of 31, Clause 4.4.4 a j & Price schedule-3, Part-</p>		<p>As per referred clause, extension of GIS building is in bidder scope and in price schedule item for the same is included and it is mentioned that, the building shall be</p>	<p>Bidders are requested to refer Amendment 4.</p>

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	C, Sl no:2 a		<p>PEB type and match with existing GIS hall.</p> <p>Please furnish the following existing GIS building drawings, in order to access the required quantity.</p> <ol style="list-style-type: none"> 1. Architectural drawing. 2. Foundation drawing. 3. PEB structure drawing. 	
236.	Vol-II, Section-I(Projects), pg.no:23 of 31, Clause 4.3.4 & Price schedule-3, Part-C, Sl no:1		<p>As per referred clause, foundation of GIS switchgear, busduct foundation, cable trench inside building & buries cable trench is in bidder scope. However in price schedule, item for the same is not included. Please include.</p> <p>Also, metal spreading quantity is not included in price schedule. Please include, if the same is required for the proposed bay extension area.</p>	BPS of the equipment is inclusive all items required to be carried out for successful completion of the Scope as per Section-Projects including Amendments (if any).
237.	Vol-II, Section-I(Projects), pg.no:27 of 31, Clause 5 b & Vol-II, Section-XIX(TRANSFORMER		<p>As per referred clause, approach road up to substation entrance is excluded from bidder scope.</p> <p>However as per clause: 2.2 of Section -</p>	In case of any requirement of Road widening, bridge strengthening etc. the same shall be in the Scope of Owner/Employer.

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	(UPTO 400kV CLASS)), Clause 2		Transformer, the contractor shall carry out the route survey along with the transporter and finalize the detail methodology for transportation of transformer and based on route survey; any modification/ extension/ improvement to existing road, bridges, culverts etc. if required, shall be in the scope of the contractor. As it would not be possible to quantify the quantum of work involved, we request to add items in price schedule payable in unit rate for road and bridge widening/strengthening works.	Bidders are requested to refer Amendment 4.
238.	Vol-II, Section-I(Projects), pg.no:27 of 31, Clause 6.2		As per referred clause, we understand that the Minimum ambient air temperature (°C) is -13.3 for Diskit substation, -13.5 for Padum substation, -28.3 for Diskit substation & -45 for Drass substation. Hence, kindly clarify if normal HT/MS steel or grade C structural steel as per IS 2062 is required to be used for the above substation.	Bidders has to consider Grade C MS structural Steel as per IS 2062. Bidders are requested to refer Amendment 4.
239.	Vol-II, Section-XVI(Part-1), pg.no:42		It is mentioned in clause no:21.3.5, the wall panel thickness shall be 135mm. Where as	Bidders are requested to refer Amendment 4.

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	of 54, Clause 21.3.5 & 21.5.2		in clause no:21.5.2, the same is mentioned as 50mm. Please clarify, which is to be followed.	
240.	Vol-II, Section-I(Projects), pg.no:12 of 31, Clause 4.1.6 xxii & xxiii and pg.no:21 of 31, Clause 4.2.6 xxiii & xxiv		Please furnish the following details for the proposed Diskit & Padum Substation:- 1. FGL of the proposed substation. 2. Soil investigation report, if available. 3. High Flood Level. 4. Plot co-ordinates. 5. Contour map, if available.	To address issue of Cutting & filling and soil resistivity, suitable amendment is being incorporated in BPS. HFL data is required to be collected by bidders at their own.
241.	Vol-II, Section-XVI(Part-2), pg.no:2 of 24, Clause a & Price schedule-3, Sl no:B.1		As per referred clause, residential staff quarters and other buildings are in bidders Scope. Please provide the following details for residential buildings (Xen's quarter, AEE/AE's quarter, JE's quarter & SBA's quarter) 1. Rooms required in each quarters. 2. tentative plan, elevation and sections for quarter buildings. in order to estimate the quantum of works.	the detail for architecture drawings and design drawing are in scope of bidder. Tentative area of various buildings has been provided in BPS & specifications. As shall such detail shall be prepared by successful bidder. For estimation, same can be worked out on total area basis of the building.

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242.	Vol-II, Section-XVI(Part-2), pg.no:2 of 24, Clause a & Price schedule-3, Sl no:B.1		<p>As per referred clause, residential staff quarters and other buildings are in bidders Scope.</p> <p>In price schedule item for the same is paid in LS basis and it is mentioned that, JE's quarter 2500Sq.ft. double storey 4x2 sets & SBA's quarter 3600Sq.ft. double storey 12x2 sets.</p> <p>We trust that,</p> <p>a. 2 sets of JE's quarter to be constructed and each JE's quarter building consist of 4 nos. of dwelling units i.e: 2 in ground floor(1250Sq.ft) & 2 in first floor(1250Sq.ft) with common staircase.</p> <p>b. 2 sets of SBA's quarter to be constructed and each SBA's quarter building consist of 12 nos. of dwelling units i.e: 6 in ground floor(1800Sq.ft) & 6 in first floor(1800Sq.ft) with common staircase.</p> <p>Please confirm our understanding.</p>	Noted.

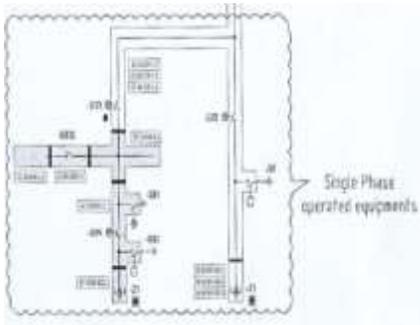
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243.	Vol-II, Section-XV(Structure), pg.no:3 of 9, Clause 1		It is mentioned in referred clause that, line diagrams of tower, girder, LM & equipment support structure are enclosed with tender document. However, the same is not enclosed. Please furnish the same.	Please refer section – Project clause no. 4.1.3 y and 4.2.3 z which will prevail over other sections in this regard.
244.	Vol-II, Section-I(Projects), pg.no:23 of 31, Clause 4.3.4 & Price schedule-3, Part-C, Sl no:1 and Vol-II, Section-I(Projects), pg.no:26 of 31, Clause 4.4.4 & Price schedule-3, Part-C, Sl no:1		As per referred clause, structure and foundation of tower & equipment is in bidder scope for the proposed bay extn. Substation. Please furnish the following existing drawings, in order to estimate the quantum of works. 1. Tower structure and foundation. 2. Equipment structure and foundation.	Bid provision shall prevail.
245.	Vol-II, Section-I Project Cl-4.1.3 (i) & (j), P.No 10 of 31		As per referred clause, Bidder presumes the Hydrant system for buildings & spray system for transformers are not required. Please check and confirm bidder understanding is correct. if required, kindly include the same in bid price schedule.	Bidder understanding is in order. Bidders to quote in line with BPS.
246.	Vol-II, Section - I -		As per referred clause, Heating system	Bid provisions in this regard are

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	Annexure-IV		need to be provided for GIS halls, we are considering Duct mounted Electric strip heaters for the same. Kindly check & confirm the same.	amply clear and same shall prevail.
247.	Vol-II, Section-I Project Cl-4.4.2 (g), P.No 25 of 31		As per referred clause, Extension of ventilation duct has been provided. we understand that only Existing ventilation duct to be extended, hence No new ventilation fans & heating system need to be proposed for GIS extn. portion. Kindly check & confirm the same.	Extension of Duct along with duct mounted strip heaters are required. Bidders are requested to refer Amendment 4.
248.	Drass BPS Line Item B(i)		As per referred clause, Extension of FDA system to be done for GIS extension portion, we understand existing fire alarm panel having sufficient spare provision for the proposed smoke / beam detectors to interface. Hence the requirement of new FACp is not proposed. Kindly check & confirm the same.	Augmentation of fire alarm panel etc. is in the scope of bidder for line bay extension. Therefore, necessary associated activities for supply, erection, testing & commissioning is also in the scope of bidder.

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249.	General		Bidder presumes there is no extension of Hydrant system for GIS buildings. Kindly check & confirm the same.	Hydrant system extension is not envisaged.
250.	Bid Price schedule & Tender Gas SLD (Drwg. No. RECTPCL/LADAKH/GS LD/13). Item No. B.1 (b) Concern Site: 1. Diskit 2. Padum	245kV, SF6 GIS Transformer bay Module [Module description as per Section Project, Technical specification] & 	There is a discrepancy between tender Gas SLD and Bid price schedule. As per referred Drawing, Spare transformer switching envisaged in GIS. However, as per bid price schedule lighting arrester and SF6 to Air Bushing Considered for 3 Nos. ICT banks only. Kindly Confirm whether spare transformer switching shall be outdoor or GIS type. Further Provide the necessary amendment for the spare transformer Module.	Bidders are requested to refer Amendment 4 w.r.t. revised Gas SLD.
251.	Bid Price shcedule Item No. B.1 (e), B.2 (i&ii) Concern Site:	220kV SF6 to Air Bushing & Surge Arrester	In case spare transformer switching considered inside the GIS, then following shall be as:	Spare Transformer is off load type.

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	1. Diskit		1.SF6 to Air Bushing = 7 Nos. 2. Surge Arrester = 7 Nos. Request you to provide the revised bid price schedule considering above qty.	
252.	Bid Price shcedule Item No. B.1 (e), B.2 (i&ii) Concern Site: 1. Padum	220kV SF6 to Air Bushing & Surge Arrester	In case spare transformer switching considered inside the GIS, then following shall be as: 1.SF6 to Air Bushing = 11 Nos. 2. Surge Arrester = 11 Nos. Request you to provide the revised bid price schedule considering above qty.	Spare Transformer & Reactor is off load type.
253.	Section Project Page no. 8 of 31, Clause no. 4.1.2 (c) Concern Site: 1. Diskit 2. Padum	33kV Surge Arrester for ICT Bays	Surge Arrester for 33kV ICT bays are not envisaged in the description of 33kV ICT GIS Bay Module.We understand same shall be outdoor type. Please confirm.Further, Please provide the line item for same in bid price schedule.	Refer TS, 33kv side of Transformer is Cable box and therefore LA is not envisaged.
254.	Tender Gas SLD (Drwg No. RECTPCL/LADAKH/GS LD/13). & Section Project Bus Bar	220kV GIS Bus Bar Rating.	There is a discrepancy between tender SLD and Section Project. As per tender SLD continuous current Rating of 220kV GIS is mentioned 3000A. However as per Section Project it is mentioned 2500A.	Bidders are requested to refer Amendment 4.

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	Rating & clause no. Concern Site: 1. Diskit 2. Padum		We understand continuous current rating shall be 2500A. Please confirm.	
255.	Bid Price schedule 1.A1.1(c)	Nitrogen Injection firefighting System	There are total 4 Nos. transformer Bank, However, NIFPS considered only 3 Nos. Request you to clarify your actual requirement.	Provision of Bid Document shall prevail.
256.	Section Project Clause No. 6.2 & Annexure - III Concern Site: 1. Diskit 2. Padum	Altitude Correction Factor	There is discrepancy between said clause for Altitude correction Factor. As per clause No. 6.2 following are the altitude 1. Diskit-3100mts. 2. Padma- 3700mtrs. As per Annexure - III 1. Diskit-3101mts. 2. Padma- 3557mtrs. Request you to furnish your actual requirement.	Bidders are requested to refer Amendment 4.
257.	GTR	Creepage Distance	We understand that creepage distance is	Provision of Bid Document shall

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	Concern Site: 1. Diskit 2. Padum 3. Phyang 4. Drass		25mm/kV for all the substations covered under this package. Please confirm.	prevail.
258.	Section Projects Future bays & provisions for future bays. Concern Site: 1. Diskit 2. Padum 3. Phyang 4. Drass		Section project is silent on future bay provisions. Kindly clarify that we need to provide the provisions for future bays. Considering the movements & provision for the future bay installations we propose to have all the future bays towards the unloading platform. Please confirm.	Bidders are requested refer GA drawing being issued vide Amendment 4.
259.	Section Project Clause No. 4.1.3 (n) Concern Site: 1. Diskit 2. Padum	Battery and battery chargers----- -----mentioned bellow.	Please clarify the nos. of future bays to considered the battery & charger rating.	Bidders are requested to quote as per BPS.
260.	General Concern Site: 1. Diskit 2. Padum 3. Phyang	layout, Plot Plan & contour drawing.	Request you to provide the plot Plan, co-ordinate and contour drawing of site.	To address issue of Cutting & filling, suitable amendment is being incorporated in BPS. Bidders are requested refer GA

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	4. Drass			drawing being issued vide Amendment 4.
261.	General Concern Site: 1. Diskit 2. Padum 3. Phyang 4. Drass	Single line diagram.	Request you to provide the 220kV and 33kV Single line diagram separately for each site.	Bidders are requested to refer Amendment 4.
262.	Section Project Clause no. 5(a). Concern Site: 1. Diskit 2. Padum 3. Phyang 4. Drass	Specific Exclusions The following items of work are specifically excluded from the scope of the specifications for all substations: a) Transmission line side tension clamp for earth wire termination.	We understand, line side insulators string, hardware and earth wire tension clamp is excluded from the present scope of bidder.	220kV line with ACSR DEER Conductor will be terminated on 220kV take off Gantry by other Agency.
263.	General Concern Site: 1. Diskit 2. Padum 3. Phyang 4. Drass	Line side conductor	Request you to furnish the 220kV line side conductor.	220kV line with ACSR DEER Conductor will be terminated on 220kV take off Gantry by other Agency.

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264.	General Concern Site: 1. Diskit 2. Padum	Line side conductor	Request you to furnish the 33kV line side conductor.	Shall be shared with successful bidder
265.	General Concern Site: 1. Diskit 2. Padum	Battery requirement for all substations	The VRLA battery may not be able to perform satisfactorily at very low temperature. We may have to go with other solution (with some additives to avoid freezing of electrolyte). We are in discussion with manufacturer for other possible solutions and will present the same before you shortly for your further comment.	Controlled climatic condition is to be maintained in DC Battery room. Provision of Bid Document shall prevail.
266.	Bid Price schedule 'I.(a) & (b) Concern Site: 1. Diskit 2. Padum	Battery rating.	We understand that all derating factors (like min. electrolyte temperature, temperature correction etc.) are already taken in the VRLA battery size mentioned in BPS. Therefore, no additional derating factor to be considered on the VRLA battery size mentioned in the BPS. Kindly confirm that our understanding is correct.	Bidder is to quote as per BPS. Successful bidder has to meet requirement of clause no 1.1.1.3 of specification.
267.	Ventilation & Exhaust arrangement for DG	Ventilation & Exhaust arrangement for DG Room	Since the DG set shall be installed inside closed room, during operation, ventilation	Please note bidder is to provide natural ventilation by providing

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	Room. Concern Site: 1. Diskit 2. Padum		& exhaust of air inside DG Room shall be required which is not mentioned under Section Project. Please clarify.	window in DG set room. In addition, provision of one exhaust fan of 300 mm size needs to be provided by bidder, cost of which has to be built in DG set building/Room cost_
268.	Remote Radiator arrangement for DG Set Concern Site: 1. Diskit 2. Padum	Remote Radiator arrangement for DG Set	Engine mounted Radiator may not be enough for the DG Set inside closed DG Room. Please clarify if we have to consider Remote Radiator arrangement for cooling of DG Set.	Provision of Bid Document shall prevail.
269.	General Concern Site: 1. Diskit 2. Padum 3. Phyang 4. Drass	Line Lengths	Please provide the line lengths for all the Line Feeder Bays covered under this package.	Shall be shared with successful bidder.
270.	Rating & Hook Height for EOT Crane for 220kV & 66kV GIS Halls Concern Site:	Rating & Hook Height for EOT Crane for 66kV GIS Halls	Please confirm the minimum rating and hook height of EOT crane to be used for 66kV GIS halls.	66kV GIS Hall is not applicable for any of the substations. Provision of Bid Document shall prevail.

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	1. Diskit 2. Padum 3. Phyang 4. Drass			
271.	Extension of EOT Crane for 220kV Concern Site: 1. Drass	Extension of EOT Crane for 220kV	Please provide the details of existing EOT crane.	Shall be shared with Successful bidder.
272.	Illumination Concern Site: 1. Drass	Illumination for GIS hall Extension	Request you to provide the line item in BPS of Illumination item for GIS hall extension part.	Provision of Bid Document shall prevail. Bidder is to quote as per BPS.
273.	General Concern Site: 1. Diskit 2. Padum 3. Phyang 4. Drass		We are presuming that supply of visual monitoring system is not in present scope supply for any of the substations. Please confirm.	Provision of Bid Document shall prevail. Bidder is to quote as per BPS.
274.	Bid Price schedule Item no. A1.1(a) 1. Diskit 2. Padum	50MVA (3x16.67 + 1x16.67 Spare), 220/33 KV, Single Phase transformers (Excluding insulating oil)	We understand total banks of 16.67MVA transformer shall be 4 nos. Please confirm.	Bidders are requested to refer revised BPS being issued vide Amendment 4.

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275.	TECHNICAL SPECIFICATION VOL-II, SEC-III GAS INSULATED SWITCHGEAR Clause No. 2.1	The SF6 gas insulated metal enclosed switchgear shall be totally safe against inadvertent touch of any of its constituent parts. It should be designed for indoor application with meteorological conditions at site as per Section Project.	We hereby clarify that, the 220kV GIS switchgear is designed for indoor application and the bus ducts are designed for indoor/outdoor application	Bid provisions are amply clear in this regard.
276.	General Concern Site: 1. Phyang 2. Drass	Feeders in Existing ACDB/DCDB/MLDB/LDB	We understand that supply of ACDB/DCDB/MLDB/LDB is excluded from present scope of work and also there is sufficient spare feeders are available at ACDB/DCDB/MLDB/LDB. Please confirm.	Bidders are requested to quote as per BPS.
277.	General Concern Site: 1. Phyang 2. Drass	Battery and charger	We understand that supply of Battery & Charger/Station Aux Transformer is excluded from present scope of bay and are available at respective SS. Please confirm.	Bid provisions are amply clear in this regard. Bidders are requested to quote as per BPS.
278.	General Concern Site: 1. Phyang 2. Drass	Battery and charger	Kindly confirm the existing voltage level of batteries (220V or 110V) for auxiliary power supply arrangement.	Existing battery voltage is 220V.
279.	General	Existing cable Trench	Kindly confirm that sufficient space is	Clarified above.

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	Concern Site: 1. Phyang 2. Drass		available in the existing cable trench for the laying of cables under present scope of works.	
280.	General Concern Site: 1. Phyang 2. Drass	Space availability in existing Panel Room	Kindly confirm that sufficient space is available in the existing panel room for placing the control and Relay Panel for present scope of bay.	Space is available. However, the details shall be shared with the successful bidder.
281.	General Concern Site: 1. Phyang 2. Drass	Main earthmat	We understand that Main earthmat and riser is already available in existing GIS room. Please confirm.	Main earth mat is available. Bidders are requested to refer Amendment 4..
282.	General Concern Site: 1. Phyang 2. Drass		Request you to provide the following existing drawing: 1. GIS Layout. 2. Overall Layout. 3. Panel Room Arrangement drawing. 4. Earthmat Layout and details of earthing Material.	Bidders are requested to refer Amendment 4.
283.	Section-Project 4.1.1.1 i),ii),iii),iv) iii,iv pg 5 & 4.2.1.1 a),b),c),d) iii,iv	Three (3) numbers 3-phase, 1600A, group operated isolator switches, complete with manual	Safety grounding switch shall be combined with offered one of the BB disconnecter and outgoing feeder disconnecter. Please	Provision of Bid Document shall prevail.

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	pg 13,14 & 4.3.1.1 b) iii,iv pg 22 & 4.4.1.1 b) iii,iv pg 24	and motor driven operating mechanisms. Three (3) numbers 3-phase, group operated safety grounding switches, complete with manual and motor driven operating mechanisms.	confirm	
284.	Section-Project 4.1.1.1 i),v) pg 5 & 4.2.1.1 a) iv) pg 13 & Spec.5.2,5.6 pg 5 of 64	Three/Single isolated phase,2500A,40kA for 1second,SF6 gas-insulated metal enclosed busbar of 245kV.... Gas monitoring devices, bay wise barriers in bus..... GIS should be suitably sub-divided into individual arc and gas-proof compartments preferably for: 1) Busbars	In three phase design gas tight partitions are not provided on the Busbar, since the specification allows three phase design we request to accept passive bus bar design with no gas tight partitions. Please confirm	Provision of Bid Document shall prevail including Amendment 4.
285.	Section-Project 4.3 pg 21	In the existing 220kV GIS of Hyosung make at Phyang (Leh) S/s,one line bay is to be extended for which space is available to accommodate wall mounted SF6	Phyang (Leh) SS & Drass SS: Please provide the Existing 220kV GIS make Layout & Section drawing showing necessary details such as cross-section, enclosure material, enclosure	Bidders are requested to refer Amendment 4.

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		to Airbushing in delta formation on the wall and line bay module on the floor. In the existing 220kV GIS of Hyosung make at Drass S/s,one line bay is to be extended for which space is available to accommodate bay on Floor.....	dimensions(inner & outer),Flange diameter dimensions, rated gas pressure, Gasket details of Existing make 220kV GIS.	
286.	Section-Project 4.3 pg 21	In the existing 220kV GIS of Hyosung make at Phyang (Leh) S/s..... In the existing 220kV GIS of Hyosung make at Drass S/s....	Please clarify existing make of 220kV GIS is Single phase enclosed BB design or 3Phase BB design.	Single phase enclosed BB design is available at Phyang and Drass S/S.
287.	Section-Project 4.4 pg 23 & 4.4.1.1 c) pg 24	Line bay Extension at Drass: In the existing 220kV GIS of Hyosung make at Drass S/S,one line bay is to be extended for which space is available to accommodate bay on floor but space is not available on wall to accommodate Wall mounted SF6 to Air bushing in delta formation on the wall.	In cl.no:4.4 of section project mentioned space is not available for wall mounted bushing. In cl.no:4.4.1.1 c) mentioned Wall mounted bushing is the requirement. Please clarify.	Please refer clause no. 4.3 of Section - Project for Phyang S/S. Please refer Clause no 4.4 of Section – Project for Drass S/S. Space is to be built by extending the GIS Hall by 6.0M for installation of wall mounted bushings on wall.

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		245kV Gas Insulated Wall mounted SF6 to Air Bushing																	
288.	Section-Project 6.2 pg 27 & 4.4 pg 23 & 4.4.1.1 c) pg 24	<p>Meteorological data:</p> <table border="1"> <thead> <tr> <th>Parameters</th> <th>Diskit</th> <th>Padum</th> <th>Phyang</th> <th>Drass</th> </tr> </thead> <tbody> <tr> <td>Altitude</td> <td>3100</td> <td>3700</td> <td>3514</td> <td>3066</td> </tr> <tr> <td>Min.Ambient Temp.</td> <td>(-) 13.3</td> <td>(-) 13.5</td> <td>(-) 28.3</td> <td>(-) 45</td> </tr> </tbody> </table> <p>All outdoor Equipment shall be designed for altitude as mentioned in table as well as for above conditions. Clearance for all outdoor equipment's exposed to AIR have to be provided considering Altitude correction factor.</p>	Parameters	Diskit	Padum	Phyang	Drass	Altitude	3100	3700	3514	3066	Min.Ambient Temp.	(-) 13.3	(-) 13.5	(-) 28.3	(-) 45	<p>For Phyang & Drass SS: In order to provide wall mounted SF6 to Air bushing, we must know the whether adequate space available in existing GIS building of existing GIS make. Please provide the same.</p>	<p>Please refer Clause no. 4.3 for Phyang and 4.4 for Dixit. Clauses are self explanatory.</p>
Parameters	Diskit	Padum	Phyang	Drass															
Altitude	3100	3700	3514	3066															
Min.Ambient Temp.	(-) 13.3	(-) 13.5	(-) 28.3	(-) 45															
289.	Bid Price Shedule 2 B.1 f) & B.1 g)	<p>Diskit SS: 245kV,1600A, 1-phase/3 phase SF6 GIS Busduct alongwith support structure from GIS building to C/L of SF6 to Airbushing - 100m(1Phase)</p> <p>Padum SS:</p>	<p>GIB quantity shall be quoted as per BOQ given not as per Layout. Please confirm</p>	<p>Bidder is to quote as per BPS and provision of Bid Document shall prevail.</p>															

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		245kV,1600A, 1-phase/3 phase SF6 GIS Busduct alongwith support structure from GIS building to C/L of SF6 to Airbushing - 150m(1Phase)		
290.	List of Mandatory spares Anneuxure-I, Vol-II Section-I (Padum,Diskit,Phyang, Drass SSs) III 1 xi	Locking device to keep the Disconnectors (isolators) and earthing switches in close or open position in case of removal of the driving mechanism	When the operating mechanism of the disconnecter or earthing switch is removed, the contacts cannot be disturbed from outside in our design. Hence locking device is not required.	Refer Sr. No. 80 of this Clarification.
291.	List of Mandatory spares Anneuxure-I, Vol-II Section-I (Padum,Diskit,Phyang, Drass SSs) III 3 v	Open / Close contactor assembly, timers, key interlock for one complete (3 phase) dis-connector and (3 phase) earthing switch of each type and rating - 1Set	Proposed interlocks are all electrical with pad locking arrangement. Key interlocking and drive control card are not applicable.	Bid provisions are amply clear.
292.	List of Mandatory spares Anneuxure-I, Vol-II Section-I (Padum,Diskit,Phyang, Drass SSs) III 4 i	220kV CT: Gas Insulated Complete CT of each type and rating with enclosure - 1No	1no complete single-phase CT shall be offered.	Provision of Bid Document shall prevail.
293.	List of Mandatory spares Anneuxure-I, Vol-II Section-I (Padum,Diskit,Phyang, Drass SSs) III 4 ii	Secondary bushing of each type - 1Set	Not applicable for 220kV GIS CT.	Noted.

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294.	List of Mandatory spares Annexure-I, Vol-II Section-I (Padum, Diskit, Phyang, Drass SSS) 9.2 of VOL II SEC II	However, in case of instrument transformers, the following type tests should have been conducted within 5 (five) years prior to the originally Scheduled date of bid opening.	Please confirm this refers to AIS instrument transformers not GIS	Bid provisions shall prevail.
295.	Section XVIII, Clause 33	CONTROL PANEL	Since this is SAS project, please confirm that materials required for conventional control panel like semaphore indicator, annunciators, meters is not to be considered by bidder	Bidder's understanding is generally in order. However, meters as per specification are required.
296.	Section XVIII, Clause 27	WEATHER PROOF RELAY PANELS	Please confirm this item is not applicable for this project	Bidders are requested to quote as per BPS.
297.	Section XIX, Clause 1.2	Existing RSCC	Please share the details of existing RSCC like make, type, etc. We request to remove this scope from present project	Bidders may note that, Bidder's scope is limited to providing the data up to substation gateway under present scope of work.
398.	Section XVIII, Clause 26	BUS BAR PROTECTION	Please confirm whether bidder can offer centralized bus bar protection scheme.	Bid Provisions are amply clear. Bidder needs to offer De-centralized low impedance Bus Bar protection scheme.
399.	General	Numerical Relay Test Kit	Please confirm Numerical relay test kit is not to be considered by bidder	Bid Provisions are amply clear.
300.	Section Project, Clause:	Extension of 1 Line bay at Phyang	Please confirm the existing SAS system	Existing SAS system is of GE

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	4.3.2.		available in the substation.	
301.	Section Project, Clause: 4.4.2.	Extension of 1 Line bay at Drass	Please confirm the existing SAS system available in the substation.	Existing SAS system is of GE
302.	Section Project, Clause: 4.3.2.	Extension of 1 Line bay at Phyang	Please confirm do we need consider Busbar Integration, if yes please confirm the make model and provision available for integration	Provision of Bid Document shall prevail. Existing system is of GE make.
303.	Section Project, Clause: 4.4.2.	Extension of 1 Line bay at Drass	Please confirm do we need consider Busbar Integration, if yes please confirm the make model and provision available for integration	Provision of Bid Document shall prevail Existing system is of GE make.
304.	VOL-II, SECTION-I (Projects) Schedule-1 BPS Item No. E1 (a) ii Diskit & Padum S/s	220kV Circuit Breaker Relay Panel with Auto Reclose	Price schedule mentioned for 2 no's 220kV Circuit Breaker Relay Panel with Auto Reclose & 01 no. without Auto reclose. As per SLD, only 01 line is present, We envisage 01 CB relay panel with Auto reclose for line & 02 Nos. CB relay panel for Transformer & Bus coupler. Please review & confirm.	Provision of Bid Document shall prevail & quote as per BPS
305.	VOL-II, SECTION-I (Projects) Schedule-1 BPS Item No. A1 (a) g Diskit & Padum S/s	Digital RTCC Panel with two RTCC relay	We understand that 01 No. relay with sufficient I/O's shall be acceptable for a transformer bank. Kindly confirm.	Bid provisions are amply clear in this regard.
306.	VOL-II, SECTION-I	RELAY PANELS (WITH	CB panel & protection for 33KV bays not	CB Control & Protection shall be

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	(Projects) Schedule-1 BPS Item No. E1 Diskit & Padum S/s	AUTOMATION)	covered under BPS & specification. Whether part of integrated LCC. Kindly review & include in the BPS.	part of 33kV Switchgear Panel as per Section IV. Bidders to quote a per BPS.
307.	TECHNICAL SPECIFICATION VOL-II, SEC-XVII Control And Relay Panel Cl.07. Diskit & Padum S/s	Mimic diagram	We understand that for SAS based substation, conventional mimic on panels, indicators & annunciation not envisaged. Same shall be part of SAS HMI. Kindly confirm.	Bidder understanding is generally in order.
309.	TECHNICAL SPECIFICATION VOL-II, SEC-XVII Control And Relay Panel Cl. 11.1 & 11.2 Diskit & Padum S/s	INDICATING INSTRUMENTS & TRANSDUCERS FOR CONTROL PANEL	We understand that for SAS based substation, conventional indication meters are not envisaged. Same shall be part of SAS HMI/BCU. Kindly confirm.	Provision of Bid Document shall prevail. However, meters as per specification are required.
310.	TECHNICAL SPECIFICATION VOL-II, SEC-XVII Control And Relay Panel Cl. 18.8 Diskit & Padum S/s	Numerical distance protection scheme of a make different from that of Main – I.	We request you to accept Main-1/2 relays working on different operating principle with equal performance. Kindly confirm	Provision of Bid Document shall prevail.
311.	TECHNICAL SPECIFICATION VOL-II, SEC-XVII	LINE OVER VOLTAGE PROTECTION RELAY	We understand that Line over voltage shall be inbuilt function of Main-1/2 distance relays. Kindly confirm.	Bidder's understanding in this regard is correct

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	Control And Relay Panel Cl. 18.11 Diskit & Padum S/s			
312.	TECHNICAL SPECIFICATION VOL-II, SEC-XVII Control And Relay Panel Cl. 23.0 Diskit & Padum S/s	TRIP CIRCUIT SUPERVISION RELAY	We understand that TCS shall be acceptable as inbuilt function of Numeric relay/BCU. Kindly confirm.	Provision of Bid Document shall prevail and supply of TCS relay is separately in line with Tender requirement.
313.	TECHNICAL SPECIFICATION VOL-II, SEC-XVII Control And Relay Panel Cl. 22.1 Diskit & Padum S/s	TEE DIFFERENTIAL PROTECTION RELAYS	We understand that for DM busbar bays configuration, TEE differential is not envisaged. Kindly confirm.	Bidder's understanding in this regard is correct.
314.	TECHNICAL SPECIFICATION VOL-II, SEC-XVII Control And Relay Panel Cl. 26.2 (p) Diskit & Padum S/s	In case of distributed Bus bar Protection, the bay units for future bays may be installed in a separate panel	We understand that there is no future bays envisaged in present scope. Kindly confirm.	Bidders are requested to refer Amendment 4. Additional PU for future bays are to be provided
315.	TECHNICAL SPECIFICATION VOL-II, SEC-XVII Control And Relay	RELAY TEST KIT	We understand that relay test kit is not required for this package, as not included in BPS line item/Spares.	Bidders to quote as per BPS

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	Panel Cl. 23.0 Diskit & Padum S/s			
316.	VOL-II, SECTION-III (GAS Insulated Switchgear)Cl. 26.4 Diskit & Padum S/s	PD monitoring system	We do not envisage online PD monitoring of GIS integration into SAS for this package, Kindly confirm.	PD monitoring system is required as per TS. However, integration with SAS is not required.
317.	VOL-II, SECTION-I (Projects) Schedule-1 BPS Item No. G1 Diskit & Padum S/s	Complete Substation Automation System (SAS) for substation including hardware and software for the substation & remote control stations alongwith associated equipments for the following bays as per Technical Specification	We understand that remote end station SAS is not part of present scope. However remote control using substation gateways & remote HMI shall be considered. Kindly confirm.	Bidders may note that, Bidder's scope is limited to providing the data up to substation gateway under present scope of work.
318.	TECHNICAL SPECIFICATION VOL-II, SEC-XVII Control And Relay PanelCl. 26.4 Drass & Phyang S/s	Busbar protection for existing substation	1. Kindly provide details of existing busbar protection system at Drass S/s, 2. In case of de-centralised, whether PU's are already available for present scope bays. 3. In case of high impedance, whether WPRP arrangement is available for present scope bays. Kindly confirm.	Existing De Centralized Bus Bar Protection is of GE make. PU is to be considered for present scope.
319.	VOL-II, SECTION-I (Projects)	Augmentation of existing Substation Automation System	In BPS it is mentioned as Relay panels (with automation). Please confirm any	Present bay is to be integrated into existing GE make SAS.

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	Schedule-1BPS- C1 (a) Drass & Phyang S/s	(SAS) for 220kV Line Bay as per Technical Specification	existing SAS augmentation is required at existing Drass & Pheyang SS. If yes, please provide the make & type of existing SAS.	
320.	TECHNICAL SPECIFICATION VOL-II, SEC-XVII Control And Relay Panel Cl. 28.0 Drass & Phyang S/s	FAULT RECORDER	We understand that existing DR shall have capacity to accommodate present scope bays. Kindly confirm.	Noted... However integration shall be required under present scope.
321.	TECHNICAL SPECIFICATION VOL-II, SEC-XVII SUBSTATION AUTOMATION SYSTEM Pg. 36/37 Note-3 Drass & Phyang S/s	For gateway, it shall communicate with Remote Supervisory Control Centre (RSCC) on IEC 60870-5-101 protocol.	We understand that PLCC is not part of present scope Lines. Hence Kindly confirm the communication channel for data transmission on IEC-101.	We need data transmission on IEC-101 in line with Tender requirement.
322.	General	Modification of data base at SLDC/ERLDC	We understand that Substation automation system of bays under present scope is limited to substation end gateway only. SAS integration at SLDC/RLDC is excluded from the bidder scope of supply. Please confirm our understanding.	Bidder understanding is in order that Substation automation system of bays under present scope is limited to substation end gateway and SAS integration at SLDC/RLDC is excluded from the bidder scope of supply.
323.	General	Operating environmental	It is always recommended that complete	Controlled Temperature shall be

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		conditions for CRP & SAS	CRP and SAS system i.e. Bay level units, bay mimic, relay and protection panels, all SAS PC, GPS, Switches, printer etc should be placed in an ambient temperature maintained room/enclosure. The operating temperature range of CRP & SAS system is 0°C to 50°C. Please confirm.	established in CRP and SAS room by bidder as per BPS item Air-conditioning and Ventilation.
324.	General	PMU	We understand that, PMU's are not envisaged. Please confirm.	Bidders are requested to refer Section Projects, where Scope is amply clear.
325.	General	Energy meters	We understand that, Energy meters are excluded from bidder scope. Bidder supplied C&R panels shall have cutout & wiring for customer supplied energy meters. Please confirm.	Energy Meters are to be considered under present scope i.e. 0.2S TVM. Bidders are requested to refer Amendment 4.
326.	VOL-II, SEC-XVIII (Substation And Automation System) Cl. 5.1.1.3	Network Management System (NMS):	We do not envisage any NMS integration for remote ends/RCC. Necessary MIB files & technical support for local end substations shall be in present scope.	Bidders are requested to quote as per Scope.
327.	VOL-II, SECTION-I (Projects) Schedule-1 BPS- C1 (a)	Telecommunication equipment - SDH EQUIPMENTS(STM-4 MADM up to 5MSP Protected directions)	Kindly provide details of FOTE equipments for existing substation & line lengths.	Make of FOTE shall be shared with successful Bidder. Tentative route length from Drass to Padum line – 196Kms

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				Tentative route length from Phyang to Diskit line – 77 Kms.
328.	Vol.II, Sec-I Project SDH (STM-4,5MSP)	Telecommunication Equipment - SDH (STM-4,5MSP) Equipment at Diskit, Phyang, Padum & Drass S/S's	Technical Specifications for Telecommunication Equipment is missing. Request to please provide	Specification for Telecommunication has already been provided.
329.	Price Schedule, Sch-1 S.No. 1. E2, 2.E2 Vol.1. Section-1 Cl.4.1.3.d & Cl. 4.2.3.e Vol.1. Section-1 Cl.4.1.3.e & Cl.4.2.3.f	Digital protection coupler Panel including cabling etc.-1 Set Digital protection coupler including cabling etc. for other end-1 Set DPC panels for both ends of 220kV Phyang-Diskit Line DPC panels for both ends of 220kV Drass-Padum Line	As per price schedule-1, DPC-1 Set each to be provided at Diskit, Padum & associated remote ends. As per protection scheme, DPC's are to be offered for Main-1 & Main-2. We understand that 1 Set means 2 Nos. DPC's. Please clarify.	Yes, Bidder understanding that 1 Set of DPC means 2 Nos. DPC is in order.
330.	SCHEDULE-1 General	Fire Protection system	We understand that any water based Fire Protection system which includes Pumping system, Hydrant System, HVWS system is not in bidder's scope of work. Kindly confirm our understanding.	Bidders understanding in this regard is correct.
331.	SCHEDULE-1 General	Air conditioning System: 2 TR High wall type Split AC	We understand that bidder has to quote as per BPS. However during detailed engineering if quantity exceeds same shall be settled commercially separately.	Split AC,s (with cooling and Heating facilities) are required for Control room cum administrative building as per BPS

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				Bidders are to offer AC system (with cooling and Heating facilities) for relay room in 245kV GIS hall on LS basis as per their design in line with BPS.
332.	Technical Specification for Air Conditioning System 1.3	Controllers shall be provided in Control room and Battery room for controlling and monitoring the AC units in these rooms.	Since this is a BOQ based tender we understand that Bidder has to quote as per quantities of Split ACs indicated. Controllers as per actual requirement during detail engineering shall be settled commercially separately.	Controllers are required to be supplied in line with specification requirement. Accordingly, bidders may take care of the same while quoting for split AC. No separate payment shall be allowed for it.
333.	SCHEDULE-1 , Extension of 220kV Line bay extension at GIS Grid Substation at Phyang(Leh), Ladakh, U.T. General	Fire Protection system & HVAC	We understand that any HVAC and Fire Fighting system is not in bidder's scope for the present extension job. Kindly confirm our understanding.	Bidder understanding appears to be in order.
334.	SCHEDULE-1 , Extension of 245kV Line bay extension at 220/66kV GIS Grid Substation at Drass, Ladakh, U.T.D-1, (i)	245KV GIS hall Extension Portion (Extension of ventilation Duct by 5 M approx)	We understand that existing AHU has the capacity to cater extended portion of GIS and Bidder has to extend only the ventilation duct. Kindly confirm our understanding.	Ventilation ducts along with strip heaters are to be extended in line with BPS.
335.	SCHEDULE-1 ,	Fire detection & Alarm System for	We understand that spare loops available	Augmentation of fire alarm panel

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	Extension of 245kV Line bay extension at 220/66kV GIS Grid Substation at Drass, Ladakh, U.T. B	GIS Hall Extension	in the existing Fire Alarm Panel will accommodate extension of FDAS. Any new Fire Alarm Panel is excuded from the bidder's scope. Kindly Confirm our understanding.	etc. is in the scope of bidder for line bay extension. Therefore, necessary associated activities for supply, erection, testing & commissioning is also in the scope of bidder.
336.	General	Route Survey	Please provide route details if available for the four locations	Bidders are requested to arrange the Route on their own.
337.	General	Site Coordinates/ Contour Plan /Soil Investigation Report	Please provide site coordinates for all the four locations. Also please furnish the Contour plan and Soil Investigation report of Extension sites.	Clarified as above.
338.	06 Price Schedule Leh Ladakh: Schedule 1	220/33kV New GIS Grid S/S at Diskit Ladakh: Part C: Mandatory Spares Sl. No. 2: 245kV GIS: Qty 1; Unit: LS 220/33kV New GIS Grid S/S at Pedum, Ladakh: Part C: Mandatory Spares Sl. No. 3: 245kV GIS: Qty 1, Unit: LS Extension of 220kV Line bay at GIS Gird S/S at Pheyang: Part C: Mandatory Spares Sl. No. 1.0: 245kV GIS: Qty 1, Unit: LS Extension of 220kV Line bay at GIS Grid S/S at Drass: Part C:	It appears that complete 245kV bays have been asked as Mandatory Spares. We presume, the same is a typographical error, it was meant to show the description for mandatory spares of 245kV GIS. Please confirm the required numbers of 245kV bays.	Bidders to quote prices of the spares for 245 kV GIS considering the Items covered under Annexure I of Section Project for relevant equipment.

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		Mandatory Spares Sl. No. 1.0: 245kV GIS: Qty: 1, Unit: LS		
339.	VOL-II, SECTION-III (GAS Insulated Switchgear) Clause 5.41	Extension of GIS	Please provide the following data for existing Hyosung make GIS: i) cross section ii) enclosure material iii) enclosure dimensions (inner & outer), iv) Flange diameter (inner & outer) v) conductor connection arrangement, bolt spacing & dimension, rated gas pressure etc. vi) Actual Photograph vii) Layout of existing s/s with clear dimensions and indicating the postion of extension. viii) sectional drawing of existing GIS with dimensions	This detail shall be provided to successful bidder.
340.	Layout	RECTPCL/LADAKH/DIS/GA/04	Same is not available. Kindly provide.	Bidders are requested to refer Amendment 4
341.	SLD	RECTPCL/LADAKH/PADUM/SLD /01	Same is not available. Kindly provide	Bidders are requested to refer Amendment 4
342.	GA for double busbar arrangement VOL-II, SECTION-III (GAS Insulated Switchgear) Clause 5.7: Service Continuity Requirement	t VOL-II, SECTION-III (GAS Insulated Switchgear) Clause 5.7: Service Continuity Requirement RECTPCL/LADAKH/GSLD/13 5.7.3. During a fault in GIS compartment other than CB compartment, maximum one bus bar and/or one feeder permitted	In order to achieve referred service continuity, intermediate gas compartments are required in between two adjacent bays in the bus bar. However, in the provided Gas SLD, no such arrangements are shown. Please confirm whether interemdiatae gas compartments are to be provided.	Gas SLD as provided is indicative only and showing minimal requirement. However, bidder scope is to meet the specified service continuity requirement by providing additional compartments wherever necessary. Also note that Bay

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		out of service during maintenance and repair/replacement.		wise Bus segregation is required in line with clause no. 4.2.1.1 & 4.1.1.1 of Section Project.
343.	VOL-II, SECTION-III (GAS Insulated Switchgear) Clause 5.32	Optical fire beam detector shall be provided in line with TAC guideline for 220kV GIS, if height of GIS hall is more than 10m.	In such case where applicable, the same shall not be in scope of GIS manufacturer.	Optical fire beam detector supply & installation for GIS hall is in the scope of bidder in line with Tender requirement.
344.	VOL-II, SECTION-III (GAS Insulated Switchgear) Clause 6.6.2 Control	f) Density meter contacts and pressure switch contacts shall be suitable for direct use as permissive in closing and tripping circuits	In the offered GIS, density meter contacts for closing & tripping circuits are provided through multiplication contacts and the same does not affect any functionality of control. Please accept	Bidder to meet Tender requirement. Functional details shall be discussed & finalized during detailed engineering considering reliability & operational aspects.
345.	VOL-II, SECTION-III (GAS Insulated Switchgear) Clause 6.8.1 Type Tests	ii) The type test report of Electromagnetic Compatibility Test (EMC) of CSD shall be submitted for approval	We understand that same is applicable for 765kV & 400kV and above GIS only. Please confirm.	Confirmed.
346	General	Plot Plan, contour survey with layout & proposal FGL	Please provide the following details for proposed 220/33kV GIS substation at Diskit (Nubra). and proposed 220/33 kV GIS substation at Padum (Zanskar) 1) Plot plan. 2) Contour survey/Layout. 3) Proposed FGL.	Bidders are requested to refer Amendment 4 in this regard.
347	General	General arrangement layout	Please provide the GA layout for proposed	Bidders are requested to refer

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			220/33kV GIS SS of following New sites. 1) 220/33kV GIS substation at Diskit (Nubra). 2) 220/33kV GIS substation at Padum (Zanskar)	Amendment 4
348	General	Existing GA layout for extension sites	Request you to provide the Existing layout of following PGCIL sites. 1) 220kV GIS, Existing PGCIL Substation at Phyang. 2) 220kV GIS, Existing PGCIL Substation at Drass.	Bidders are requested to refer Amendment 4
349	General	Existing 220kV GIS building GA drawing for extension sites	Request you to provide the Existing GIS general arrangement drawing of following PGCIL sites. 1) 220kV GIS, Existing PGCIL Substation at Phyang. 2) 220kV GIS, Existing PGCIL Substation at Drass.	Bidders are requested to refer Amendment 4
350	General	Tree cutting and Forest approval/permit	We understand that tree cutting, and forest approval is not in bidder scope. Please confirm our understanding is correct. Encumbrance free land shall be handover to bidders by RECTPCL.	Bidders understanding in this regard is correct.
351	Price schedule,	Contouring & levelling of plot And	As referred, we understand that mentioned	Bidders are requested to refer

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	<p>schedule-3</p> <p>And</p> <p>VOLUME-II, SECTION – XVII TECHNICAL SPECIFICATION (GIS), Civil Works, Item no 2 and Cl. 3.2 page no Page 8 of 54</p>	<p>This clause covers clearance of site, contour survey, site levelling, maintaining finished ground level by cutting/filling in all types of soil and soft/ disintegrated rock, supplying and compaction of fill material if required. Cutting/felling of trees and their disposal has not been envisaged under the present scope.</p>	<p>item is to be used for Contour survey and levelling arrangement. However, there is no Cutting /filling in all type of soil soft/disintegrated rock is envisaged in bidder scope. Since, the specific line item of the same is not reflected in tender BPS. Please confirm our understanding is correct</p>	<p>revised BPS being issued vide Amendment 4</p>
352	<p>Price schedule, schedule-3:</p> <p>And</p> <p>VOLUME-II, SECTION – XVII TECHNICAL SPECIFICATION (GIS), Civil Works, Item no 2</p> <p>And</p> <p>Cl. 3.2 page no Page 8 of 54</p>	<p>Contouring & levelling of plot And</p> <p>This clause covers clearance of site, contour survey, site levelling, maintaining finished ground level by cutting/filling in all types of soil and soft/ disintegrated rock, supplying and compaction of fill material if required. Cutting/felling of trees and their disposal has not been envisaged under the present scope.</p>	<p>In continuation of above, Cutting/filling is in bidder scope. Please amend the same in BPS accordingly.</p>	<p>Bidders are requested to refer Amendment 4</p>

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353	Price schedule, schedule-3: Civil Works, Item no 3 iv for Diskit and Padum substation (New)	Take Off Gantry Tower Structure,	As referred, 6 nos shown in tender BPS. Please confirm that the mentioned line item covered under following structure (tower) foundations1) 220kV towers foundations 2) 33kV tower foundations.In continuation of the above, 220kV and 33kV tower is varies in all criteria i.e. design parameters/foundation size and quantities, hence please split this item according to structure basis and amend that same in price schedule accordingly.	2 nos. Foundation for 220kV Gantry tower and 4 nos. Foundation for 33kV Take off Gantry.
354	Price schedule, schedule-3: Civil Works, Item no 3 vi for Diskit and Padum substation (New)	Equipments structure for L.A, BPI in 220kV AIS	As per price schedule -21 nos provided in this item for 220kV outdoor equipment's, however 33kV outdoor equipment foundation has not shown in tender BPS. Please include the same separately in BPS.	33kV Line LA shall be mounted on Line Take off Gantries.
355	Price schedule, schedule-3: Civil Works, Item no 3 vi for Diskit and Padum substation (New)	Foundation for SF6 Bushing /Bus duct support structure of 220kV and 33kV	In continuation of the above, outdoor foundation for support structure of SF6 Bushing /Bus duct support structure of 220kV and 33kV is not reflected in tender BPS. Please amend the same in BPS.	220kV Bus Duct Support Structure Foundation is part of 220kV GIS Hall. For connection between transformer & 33kV Switchgear panel, 33kV cable shall be buried in ground.
356	Price schedule,	Equipment's structure for L.A,	As per price schedule -30 nos provided in	33kV Line LA & Isolator shall be

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	schedule-3: Civil Works, Item no 3 vii for Padum substation	BPI in 220kV AIS	this item for 220kV outdoor equipment's, however 33kV outdoor equipment foundation has not shown in tender BPS. Please include the same separately in BPS	mounted on Line Take off Gantries.
357	Price schedule, schedule-3: Civil works- Cl. 6.0 Point e Page no 13 of 54	Equipment's structure for L.A, BPI in 220kV AIS	In continuation of the above, outdoor foundation for support structure of SF6 Bushing /Bus duct support structure of 220kV and 33kV is not reflected in tender BPS. Please amend the same in BPS.	220kV Bus Duct Support Structure Foundation is part of 220kV GIS Hall. Bidder may quote accordingly.
358	VOL-II, SEC-XVII and Drw no TND/RECTPPL/J&K/D RG/C14 Civil works- Cl. 6.0 Point e Page no 13 of 54	Storm water Drain	As referred clause has been mentioned that "Open surface drains shall be constructed as per tender drawing on one side of road for catering/drainage of storm water. Please confirm/accept for the same.	There is no mention of making Drain only on One side of the Road. The work is to be executed as per details described in Tender TS & Drawings.
359	Price schedule, sch-3: Civil Works, Item no 13	Design and Construction of Drainage system	As per price schedule drainage system provided in Lum Sum item. Hence, we understand that construction of drainage shall be within boundary wall only and there is no outside drain considered in BOQ (except 50m as per specification). Please confirm.	Confirmed
360	VOL-II, SEC-XVII and	Road work. The type & location of culverts i.e. the number and	As referred clause. We understand that Hume pipe shall be provided in mentioned	The work is to be executed as per Tender TS and bidders are

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	Tender price schedule Civil works- Cl. 7.0 Point d Page no 16 of 62 and item no 17, I,ii & iii	diameter of Hume pipes shall be as decided during detailed engineering. The invert level of Hume pipes of culverts shall match with the invert level of drain meeting the culvert.	line item. Please confirm our understanding is correct.	requested to quote as per BPS.
361	Price schedule, sch-3: Civil Works, Item no 3 i	Design, Engineering and Construction of foundation for following equipments/Structures. All civil works including earthwork excavation for all type of soils, concreting, reinforcement steel,Steel grating for Transformer oil pits, Rail tracks, other miscellaneous steel, backfill and disposable of excess earth, all complete as per TS and approved drawing. 50MVA (3x16.67MVA+1x16.67MVA spare) Power Transformer	With reference to the item description, transformer oil pit is provided with individual (each) transformer. Hence, there is no common burnt oil pit is envisaged in bidder scope. Please confirm	Confirmed
362	VOL-II, SEC-XVII and Price schedule, sche-3, civil work Civil works-	The scope includes the design, drawing, engineering and construction including anti-termite treatment,	As referred, Firefighting building and relevant FF Water tank is not envisaged in bidders scope work. Since the specific line item of the same is not find in tender BPS.	Confirmed

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Project	:	Name of Work: Design, Manufacturing, Supply, Erection, Testing & Commissioning of below mentioned Substations and bay on Turnkey Basis associated with Strengthening of Transmission System of JKPDD under PMDP Scheme-15:- i) 220/33 kV GIS Substation at Diskit (Nubra) ii) 220/33 kV GIS Substation at Padum (Zanskar) iii) 220kV Line Bay at PGCIL's existing GIS Substation at Phyang iv) 220kV Line Bay at PGCIL's existing GIS Substation at Drass
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	Cl. 13.1 Page no 23 of 54 and Price schedule, sche-3, civil work	plinth protection, DPC of Building including sanitary, water supply, electrification, false ceiling etc. as applicable, complete of control room building, fire fighting building, Auxiliary building, Store and Security room. Electrification and air conditioning of building shall be provided as detailed in other sections of electrical portion.	Please confirm.	
363	Price schedule, sche-3 - Civil work item 7 i and Tender drawing of control room & administrative building (ARCHITECTURE PLAN SECTION O CONTROL ROOM BUILDING)	Control room building	As per price schedule control room building shall be 500 sqm. However, as per provided tender drawing appx outer to outer side of building shall be 20.278x13.50 so, total sqm of control room building shall be 548 sqm. We understand that control building shall be 500 sqm only and if size of building to be increased as per tender drawing same shall be paid as per actual execution. Please confirm	Bidders are requested to quote as per BPS. Tender drawings are for reference purpose only.
364	VOL-II, SEC-XVII And Price schedule Civil works- Cl. 13.2, Page	The Control Room Building shall be of size 20 m X 25 m approximately. It will be a double storeyed RCC Framed structure if	As referred, control room cum administrative building size mentioned as 20 m X 25 m, we understand that Provided size shall be indicative only. Hence control	Bidders understanding in this regard is correct.

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	no 23 of 53 And Sche-3 -Civil work item 7 i	constructed separately away from GIS hall. It shall be so designed that most of the area of switchyard is visible from the Control Room.	room building shall be considered/constructed 500 sqm as per price schedule. Please confirm our understanding is correct.	
365	VOL-II, SEC-XVII Civil works- Cl. 13.18, Point Page no 33 of 54	Under deck Insulation	As this project is going to be executed at Leh & Ladakh, hilly area, so we understand that under deck may not be required as per climate conditions. Please confirm Whether its require or not.	Bid provisions are amply clear and shall prevail.
366	Price schedule, Schedule-3: And VOL-II, SEC-XVII Civil Works, Item no 7 i & ii (a,b) And Civil works- Cl. 21.10, Page no 40 of 54	Control room building And 220kV GIS Hall along with AHU Room and Panel Room	As per price schedule, it has been mentioned that "Design, Engineering and Construction of following buildings inclusive of PCC, RCC, reinforcement, internal cable trench (if required) internal and external finish, internal water supply, internal and external sanitation, septic tank and soak pit etc complete in all respects". However, as per referred clause, "The 220kV GIS Hall and associated AHU room, Panel room shall be pre-engineered steel structure type and Control room cum administrative building and remaining all the building shall be RCC Framed Structure	Bidders are requested to quote as per BPS

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			type. Please confirm	
367	Price schedule P a And Vol-II, Section-I (Annexure-III) Page 1 of 1 ANNEXURE – III page 1 of 1	Lattice Structure (Gantry Towers, Beams, LM and Equipment/support structure) including Foundation Bolts And Meteorological data: - Min Ambient temperature -13.3 to -45 deg.(C)	As referred clause, minimum ambient temperature shall be - 13deg.C to -45 degree C. So, please provide the grade of steel shall be considered for GI gantry structure as per climate conditions, since the same is not available in tender specification.	Bidders has to consider Grade C MS structural Steel as per IS 2062 Bidders are requested to refer Amendment 4.
368	Vol-II, Section-I (Annexure-III) Page 1 of 1 and VOLUME-II, SECTION - XVII TECHNICAL SPECIFICATION, (Annexure-III) Page 1 of 1 and Civil works Cl 13.4- point no1, Page 25 of 54	Building structure shall be designed for the most critical combinations of dead loads, super-imposed loads, equipment loads, erection loads, wind loads, seismic loads, snow loading, if required etc. Any other incidental load, if anticipated, shall be duly accounted for in the design, and shall be clearly mentioned by the bidder.	As referred, all structure (i.e. gantry tower, beam, Equipment structure & all building) shall be designed for snow load for maximum accumulation shall be as per metrological data provided in tender document for each site. Please confirm/clarify	Confirmed
369	VOLUME-II, SECTION -	Aesthetically pleasant RCC car	As Per price schedule, capacity parking	Bidders are requested to quote as

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	XVII TECHNICAL SPECIFICATION, And Civil price schedule Civil works Cl 18.0, Page 39 of 54 And item 7 v	parking shed as per design and drawings as developed by the contractor and suitable to park 10 cars shall be constructed at suitable location to be decided during detailed engineering stage	shed for 5 nos car is required whereas technical specification said 10 nos. of car. We understand that price schedule shall prevail for execution. Please confirm our understanding is correct.	per BPS
370	VOLUME-II, SECTION – XVI(Part-2) TECHNICAL SPECIFICATION(GIS) Cl 17, page no 23 of 24	The drawing for the water supply from bores-well to fire water tank shall be developed by the Contractor. Water supply will be made available to the Contractor from a bore-well by the Employer at any one location within the sub-station. 80 mm dia CPVC pipe shall be provided by the Contractor from the bore-well to the fire water tank..... water tank provided for the control room building & transit camp.	Fire water tank is not in bidder's scope. Please confirm	Bidder's understanding in this regard is correct. Regarding provision of Water Supply to contractor, bidders are requested to refer Amendment 4.

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371	VOLUME-II, SECTION - XVI (Part-2) TECHNICAL SPECIFICATION(GIS), Cl no 13.2 ,page no 10 of 24	Additional Roof with slopes (1 Vertical: 1.5 Horizontal) shall be provided in case the township is in snow bound terrain. This roof shall be MS truss Structure covered with MS profile sheets as per CPWD Specifications	We understand that Additional roof shall be provided in Residential building and Control room cum administrative building only. Remaining framed structure building shall RCC sloped roof to be executed as per specification. Please confirm our understanding is correct.	This clause pertains to Residential Buildings only, where additional roof shall be provided above the RCC roof. For, Control Room Building the additional roof shall be provided above the RCC roof For other buildings, the roof shall be as per TS
372	Price schedule, sche-3 civil works, item no 20 i	Random rubble Masonary Retaining Wall	We understand that the provided shall be combined item including of all excavation, PCC, RR masonry, weep hole and top coping. Please confirm our understanding is correct.	Bidders understanding in this regard is correct.
373	General	Storm water Drain for quareter area	We understand that storm water drainage for quarter portion is not envisaged in bidder scope. Since the same is not find tenders price schedule on Quarters BPS. Please confirm our understanding os correct.	The Storm Water drainage for complete Substation including Township area also is considered in the Bid Document
374	Cl 4.3.4 page no 23 of 31 Civil works. VOL-II, SECTION-I (Projects)	(ii) Foundation for Bus duct supporting structures, GIS (SF6 to Air)	As referred, the mentioned line is not covered in Civil BOQ for 220kV GIs Extn. Phayang SS. Please confirm the final	As clarified above.

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	and Price schedule sche-3 civil works for 220kV GIs Extn. Phyang SS.	(iii) Cable trenches inside Control Room, Relay Room, GIS buildings and Burried Cable in switchyard area. Contractor shall develop the Cable Trench/Buried Cable layout. (v) Buried cable trench for laying cables as per requirement.	requirement, whether its required or not.	
375	Cl 4.3.4 page no 23 of 31 Civil works. VOL-II, SECTION-I (Projects) and Price schedule sche-3 civil works for 220kV GIs Extn. Phyang SS.	ii) Foundation for Bus duct supporting structures, GIS (SF6 to Air) (iii) Cable trenches inside Control Room, Relay Room, GIS buildings and Buried Cable in switchyard area. Contractor shall develop the Cable Trench/Buried Cable layout. (v) Buried cable trench for laying cables as per requirement.	In continuation of the above, if mentioned item is in bidder scope. Please amend the same in BPS.	As clarified above
376	Cl 4.4.4, page no 25 of 31 Civil works. VOL-II, SECTION-I (Projects) and Price schedule sche-3 civil works for 220kV	(vi) Foundation for Bus duct supporting structures, GIS (SF6 to Air) (vii) Cable trenches inside Control Room, Relay Room, GIS buildings and Burried Cable in switchyard	As referred, the mentioned line is not covered in Civil BOQ for 220kV GIs Extn. Brass SS. Please confirm the final requirement, whether its required or not.	As clarified above

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	GIs Extn. Phayang SS.	area. Contractor shall develop the Cable Trench/Buried Cable layout. (ix) Buried cable trench for laying cables as per requirement.		
377	Cl 4.4.4, page no 25 of 31 Civil works. VOL-II, SECTION-I (Projects) and Price schedule sche-3 civil works for 220kV GIs Extn. Phayang SS.	(vi) Foundation for Bus duct supporting structures, GIS (SF6 to Air) (vii) Cable trenches inside Control Room, Relay Room, GIS buildings and Burried Cable in switchyard area. Contractor shall develop the Cable Trench/Buried Cable layout. (ix) Buried cable trench for laying cables as per requirement.	In continuation of the above, if mentioned item is in bidder scope. Please amend the same in BPS.	As clarified above.
378	i) 220kV Line Bay at PGCIL's existing GIS Substation at Phyang ii) 220kV Line Bay at PGCIL's existing GIS Substation at Drass	Dismantling for Existing structure	Bidders not envisaged any type of dismantling/demolishing/refurbishing/relocation on existing foundation and any structure in extension substation both. Please confirm/clarify.	Dismantling of existing Line bay Structure at Phyang and Drass is not envisaged.
379	i) 220kV Line Bay at PGCIL's existing GIS Substation at Phyang	Removing and re-spreading of existing metal/Gravel in extension portion.	We presume that removing and re-spreading of existing yard Gravel/metal spreading is envisaged, since this existing	No such line item is required. In case of requirement of the same, the bidder may appropriately

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	ii) 220kV Line Bay at PGCIL's existing GIS Substation at Drass		substation. However specific line item of the same is not find in tender BPS. Please review and confirm accordingly.	consider the same while bidding.
380	Price schedule P a ,b And Vol-II, Section-I (Annexure-III) Page 1 of 1 ANNEXURE – III page 1 of 1	Grade steel for Out door tower, equipment structure..etc.	We understand that C grade steel shall be used for following structure as per climate conditions. 1) Outdoor GI structure - Gantry Tower, beam associated with fasteners and Foundation bolts. 2) Equipment supporting structure associated with fasteners and Foundation bolts.	Bidders has to consider Grade C MS structural Steel as per IS 2062 Bidders are requested to refer Amendment 4.
381	Price schedule Item no 3,4,5,6 & 7	Design, Engineering and Construction of foundation for following equipment's/Structures. All civil works including earthwork excavation for all type of soils , concreting, reinforcement steel, Steel grating for Transformer oil pits, Rail tracks, other miscellaneous steel, backfill and disposable of excess earth, all complete as per TS and approved drawing.	In absence of the Geo technical report, it is very difficult to quote earthwork excavation as a combined item . Hence we request you to provide the separate line item for same in price schedule i.e. 1) Normal soil, 2)Soft/disintegrated rock, and 3) Hard rock.	At Present, the excavation has been considered for All type of Soils, which does not involve excavation for Hard Soil/Rock Breaker/Blasting Work. The Bidders are requested to quote accordingly. However, if any hard rock strata is envisaged, the same shall be evaluated on actual basis as per Contract Provisions.

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382	VOLUME-II, SECTION - XVII TECHNICAL SPECIFICATION (GIS) Cl. No 24.12, page no 52 of 54	24.12 For all civil works covered under this specification, design Mix of Minimum M25 grade as per relevant International /IS shall be used. Reinforcement steel shall be of minimum Fe 500 grade	We understand that normal & non corrosive resistant RF reinforcement i.e. Epoxy and shall be used for all RCC structure as per technical specification. Please confirm our understanding is correct	The reinforcement steel shall be as per the relevant TS.
383	VOL-II, SECTION-I (Projects) and Price schedule sche-3 civil works for 220kV GIs Extn. Phayang SS. Cl 4.1.6, page no 12 of 31 Civil works.	PEB Building for 220kV GIS Hall and RCC Structure Building for 36 kV GIS Panel Room. The size of 220 kV & 36kV GIS Building shall be suitable to accommodate 220kV & 36kV bays respectively including space of maintenance bay, extension piece module, Space for future Bays etc.	we understand that thermal insulation is not applicable for PEB/RCC Structural building. Please confirm our understanding is correct..	Confirmed
384	DG Set Concern Site: 1. Diskit 2. Padum	Location Of DG Set.	We understand that DG Set shall be indoor type and placed in separate DG room.	Bidder to note that DG set in line with Tender requirement and shall be placed in separate DG room.
385	DG Set Rating Concern Site: 1. Diskit	m) 250KVA Indoor Silent type DG Set with AMF Panel, 990 Litre Day Tank in a Separate DG Set Building and 10 KL underground	As per Section Project, we understand that bidder has to consider DG set rating of 250kVA net output after derating as per site ambient condition & altitude	DG set net output requirement is amply clear. Provision of Bid Document shall prevail.

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	'Clause no. 4.1.3(m) of section project	tank. Net Rated Output at 35°C temperature & 3100m of altitude after reducing DG Set auxiliaries load shall be 250 kVA. The DG set shall be supplied with cold start arrangement to facilitate auto start in all weather conditions including extreme cold condition. The fuel (including additives) to be used in offered DG set shall be suitable for metrological data for substation. All necessary arrangement (including Lubricant oil heater, engine oil heater, space heaters and heat tracing for Day tank and fuel line etc.) for successful operation of offered DG set under minimum ambient condition shall be considered by bidder. Other general parameters will be as specified in Section DG set.	correction factors. Please confirm whether our understanding is correct.	
386	DG Set Rating Concern Site:	m) 250KVA Indoor Silent type DG Set with AMF Panel, 990 Litre Day Tank in a Separate DG Set	As per Section Project, we understand that bidder has to consider DG set rating of 250kVA net output after derating as per	DG set net output requirement is amply clear. Provision of Bid Document shall prevail.

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	1. Padum 'Clause no. 4.2.3(n) of section project	Building and 10 KL underground tank. Net Rated Output at 35°C temperature & 3700m of altitude after reducing DG Set auxiliaries load shall be 250 kVA. The DG set shall be supplied with cold start arrangement to facilitate auto start in all weather conditions including extreme cold condition. The fuel (including additives) to be used in offered DG set shall be suitable for metrological data for substation. All necessary arrangement (including Lubricant oil heater, engine oil heater, space heaters and heat tracing for Day tank and fuel line etc.) for successful operation of offered DG set under minimum ambient condition shall be considered by bidder. Other general parameters will be as specified in Section DG set.	site ambient condition & altitude correction factors. Please confirm whether our understanding is correct.	
387	DG Set Rating Concern Site:	DG Set cold Start facilities.	Please furnish the details of cold start facilities system.	Cold start facilities should be such that it meets starting

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	1. Padum 'Clause no. 4.2.3(n) of section project			requirement mentioned in section DG set for the specified meteorological data.
388	Control and Power cable Concern Site: 1. Diskit 2. Padum 3. Phyang 4. Drass	Control and Power cable sheath material.	AS per control and power cable specification, Sheath is considered as PVC for Cables which is not suitable for such sub-zero {minus 13deg C to (-)45 deg.C} temperautre condition prevailing at the respective sites. We propose you to consider the PE (Polyethylene) type cables instead of specified PVC type to suit extreme cold condition environ. Request to please issue amendment for considering PE type Cables for all MV/LV power & LV control cables with outer sheath cold withstand tempreture (-) 45 tempretute or better..	Control & Power Cable offered shall be suitable for severe cold climate (meteorological data as per Annexure - C) and comply with testing requirement given in the specification as well as special test requirement in line with relevant IEC for cold climate as mentioned in M.D.
389	General Concern Site: 1. Diskit 2. Padum 3. Phyang	All lighting fixtures shall be complete with LED /mercury vapour/sodium vapour lamps as specified and shall be suitably wired up.	Request you furnished your requirement, which type fixtures to be considered for indoor and outdoor lighting separately.	Indoor & Outdoor LED type fixtures of reputed make/manufacturer are proposed to be used meeting our project requirement in line with Note at the end of lighting

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	4. Drass "TECHNICAL SPECIFICATION VOL-II, SEC-VIII LIGHTING SYSTEM, Annexure-1 (page No. 576 of 1302) clause no. 2.2.1.4(C)			section. However, Type of Fittings as proposed by Bidder shall be finalized during detailed engineering.
390	General Concern Site: 1. Diskit 2. Padum 3. Phyang 4. Drass "TECHNICAL SPECIFICATION VOL-II, SEC-VIII LIGHTING SYSTEM, Annexure-1 (page No. 584 of 1302)	Lighting Fixtures for sub-station (indoor and outdoor)	As per referred Clause, conventional Type fixtures considered. As HPSV/Metal Halide is not compliant to beyond (-) 3 Deg. We propose you to considered the LED type fixtures for indoor and outdoor are. Request to please issue amendment for considering the same.	Indoor & Outdoor LED type fixtures of reputed make/manufacturer are proposed to be used meeting our project requirement in line with Note at the end of lighting section. However, Type of Fittings as proposed by Bidder shall be finalized during detailed engineering.
391	General		As highest Altitude correction factor is 1.36, Please confirm whether bidder to	The bidder has to meet insulation requirement as per Metrological

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	Concern Site: 1. Diskit 2. Padum 3. Phyang 4. Drass		consider the next voltage level equipments at any site.	Data provided in Section Project of the Tender Document.
392	General Concern Site: 1. Diskit 2. Padum 3. Phyang 4. Drass		As per site conditions, we proposed to consider the dry type LT Transformer. Request you to provide the necessary amendment.	Bid provisions shall prevail.
393	Section-II Instruction to Bidders Clause 31.3 Page 36 of 38	The Employer reserves the right to vary the quantity of any of the spares and/or delete any items of spares altogether at the time of Award of Contract.	We request you to cap on the amount of variation. We suggest that the variation should be permitted up to 15%, beyond which it should be considered a change order that would be required to be mutually discussed.	Bid provisions shall prevail.
394	Section -IV General Conditions of Contract 7 (x) Page 13 of 43	CONTRACTOR'S GENERAL RESPONSIBILITIES: PATENT RIGHTS AND ROYALTIES	Please note that IPR indemnity shall be subject to contractor products not being modified, revised, or used in an unauthorized manner or used in combination with other product by Purchaser.	Bid provisions shall prevail.
395	Section -IV General	(a) The Contractor shall carry	We request you to cap on the amount of	Bid provisions shall prevail.

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	Conditions of Contract 7(xv) :Spares Page 16 of 43	sufficient inventories to assure ex-stock supply of spares and same shall be supplied as promptly as possible but in any case within six months of placement of order. (b) It shall be mandatory for the Contractor to specify the unit rates and prices for the spares as specified in the Schedule of Prices. The RECTPCL, however, reserve the right, during the execution of Contract, to vary the quantity of spares specified in the Schedule of Prices.	variation. We suggest that the variation should be permitted up to 15%, beyond which it should be considered a change order that would be required to be mutually discussed.	
396	Section -IV General Conditions of Contract Clause 25. Extension of Time for Completion Page 25 of 43	The Contractor may claim an extension of the Time for Completion, if the completion of the Works is delayed by any of the following causes: (i) Extra or additional work	We would like to request you that bidder should also be reimbursed for costs incurred as a result of Delay by any other Contractor engaged by the RECTPCL, which affects this contract materially. We request for your confirmation on the same.	Bid provision shall prevail.

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		<p>ordered in writing under Clause-32 hereof.</p> <p>(ii) Delay by any other Contractor engaged by the RECTPCL, which affects this contract materially.</p> <p>(iii) Any suspension of the works under Clause-23 hereof except when due to the Contractor's default.</p> <p>(iv) Any force majeure conditions.</p>		
397	Section -IV General Conditions of Contract Clause 31 : DEFECTS AFTER TAKING OVER Page 29 of 43	<p>The provisions of this Clause shall apply to all replacements or renewals carried out by the Contractor as if the replacement and renewals had been taken over on the date they were completed.</p> <p>The Defects Liability Period for the Works shall be extended by a period equal to the period during which the Works cannot be used by reasons of a defect or damage. If only a part of the Works is affected, the Defect Liability Period shall be extended only for</p>	<p>The warranties and remedies are conditioned upon (a) proper storage, installation (by properly certified installers or under the supervision of properly certified supervisors, if required), use, operation, and maintenance of Products, (b) Buyer keeping accurate and complete records of operation and maintenance during the warranty period and providing Seller access to those records, and (c) modification or repair of Products or Services only as authorized by Seller in writing. Failure to meet any such conditions renders the warranty null and void. Seller is not responsible for normal</p>	Bid provision shall prevail.

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		that part. In neither case shall the Defects Liability Period be extended by more than twelve months.	wear and tear. We request your confirmation on the same.	
398	Section -IV General Conditions of Contract Clause 36 (iii) : RISK AND RESPONSIBILITY Page 36 of 43	The Contractor's Risks are all risks other than those identified as the RECTPCL's Risks.	Contractor risks should be clearly defined. This makes the ambit vague and broad.	Bid provision shall prevail.
399	Section -IV General Conditions of Contract Clause 37 : CARE OF THE WORKS AND PASSING OF RISK Page 36 of 43.	(i) Contractor's Responsibility for the Care of the Works. The Contractor shall be responsible for the care of the Works or any section thereof from the Commencement Date until the Risk Transfer Date applicable thereto under Sub-Clause (ii) of this Clause. The Contractor shall also be responsible for the care of any part of the Works upon which any outstanding work is being performed by the Contractor	Bidder/seller cannot be responsible for the background work already carried out. bidder can only be responsible for the outstanding work being done by them and its impact, if any. Please accept the same.	Bid provision shall prevail.

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400	Section -IV General Conditions of Contract Clause 37(v) : LOSS OR DAMAGE AFTER RISK TRANSFER DATE Page 37 of 43.	After the Risk Transfer Date, the Contractor's liability in respect of loss of or damage to any part of the Works shall, except in the case of gross misconduct, be limited: (a) to the fulfillment of the Contractor's obligations under Clause-31 hereof in respect of defects therein, and (b) to making good forthwith loss or damage caused by the Contractor during the Defects Liability Period.	The general legal parlance is gross negligence or wilful misconduct. Please clarify which one do you mean	To be dealt on case to case basis and in this connection Employer is the sole judge.
401	Section -IV General Conditions of Contract Clause 38 : DAMAGE TO PROPERTY AND INJURY TO PERSONS Page 37 of 43.	(i) Contractor's Liability Except as provided under Sub-Clause (iii) of this Clause, the Contractor shall be liable for and shall indemnify the RECTPCL against all losses, expenses and claims in respect of any loss of or damage to physical property, death or personal injury	This period needs to be better defined. The start period needs to be defined. Also, keeping in view that the defect liability certificate may be granted piecemeal, depending on the work/scope ()clause 31(i)(a), our liability/indemnity has to be limited to the specific portion for which the defect liability certificate has not	Bid provision shall prevail.

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		occurring before the issue of the last Defects Liability Certificate to the extent caused by; (a) defective design, material or workmanship of the Contractor. (b) gross negligence or breach of statutory duty of the Contractor, his subcontractors or their respective employees and agents.	been granted only. Please add change shown in red	
402	Section -IV General Conditions of Contract Clause 39 : LIMITATIONS OF LIABILITY: (I) LIABILITY AFTER EXPIRATION OF DEFECTS LIABILITY PERIOD Page 38 of 43.	The Contractor shall have no liability to the RECTPCL for any loss of or damage to the RECTPCL's physical property which occurs after the expiration of the Defects Liability Period unless caused by gross misconduct of the Contractor.	The general legal parlance is gross negligence or wilful misconduct. Please clarify which one do you mean	Bid provision shall prevail.
403	Section -IV General Conditions of Contract Clause 39 : LIMITATIONS OF LIABILITY: (I) LIABILITY AFTER EXPIRATION OF	The RECTPCL and the Contractor intend that their respective rights, obligations and liabilities as provided for in these conditions shall alone govern their rights under the Contract and in relation to the Works.	We request you to modify the said clause as per change suggested in red.	Bid provision shall prevail.

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	DEFECTS LIABILITY PERIOD Page 38 of 43.	Accordingly, the remedies provided under the Contract in respect of or in consequence of: a) any breach of Contract, or b) any gross negligent act or omission, or c) death or personal injury, or d) loss or damage to any property are to be to the exclusion of any other remedy that either may have against the other under the law governing the Contract or otherwise.		
404	Section -IV General Conditions of Contract Clause 45 : OWNERSHIP Page 42 of 43.	Ownership of goods shall pass from the Contractor to the RECTPCL on arrival of the goods at site. However, such passing of ownership shall not in any way dilute the responsibility of the Contractor to insure the goods as per Clause-40 hereof and shall not absolve the Contractor of his obligations and	We request you to modify the said clause as per change suggested strike off.	Bid provision shall prevail.

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		liabilities under the Contract. The goods shall be handed over back to the Contractor for performance of services under the Contract for which Contractor shall submit an Indemnity Bond to the purchaser as per proforma attached at section-ix, volume-i.		
405	Indemnity bond	Form of indemnity bond to be executed by the contractor for the equipment handed over in one lot by(abbreviated name of the employer)..... for performance of its contract	We should indemnify for damage caused as a result of an act or omission on our part. We cannot indemnify for damage caused due to act or omission on part of the employer. We request your confirmation on that same and modify the INDEMINITY BOND accordingly	Bid provision shall prevail.
406	Indemnity bond	Form of indemnity bond to be executed by the contractor for the equipment handed over in installments by(abbreviated name of the employer)..... for performance of its contract	We should indemnify for damage caused as a result of an act or omission on our part. We cannot indemnify for damage caused due to act or omission on part of the employer. We request your confirmation on that same and modify the INDEMINITY BOND accordingly	Bid provision shall prevail.
407	Price schedule	HSN/SAC Code	Since it is a lumpsum turnkey project so	Bid provision shall prevail.

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			instead of HSN code SAC code shall be applicable for supply portion also. Hence SAC code of lumpsum turnkey contract shall be applicable for all items. We request you to change price schedule accordingly.	
408	Defect liability period	The Defect Liability Period: (i) Forty Eight (48) months from the date of Taking Over/Completion of Facilities for 220kV and 33kV voltage level GIS Circuit Breaker bay* to be supplied by the manufacturer who have established manufacturing/testing facilities for 220kV or above voltage level Gas Insulated Switchgear (GIS) in India based on technological support of Parent Company (Principals) or Collaborator(s) or Subsidiary Company as per the provision of bid document. (ii) Sixty (60) months from the date of Taking	We request to amend defect liability period of 12 months from the date of taking over for all equipments including GIS and transformer. Kindly confirm and amend said clause.	Bid provision shall prevail.

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		<p>Over/Completion of Facilities for 220kV and 33kV voltage level GIS Circuit Breaker bay* to be supplied by the bidder from their Subsidiary or Group Company or a Joint Venture Company as per the provision of bid document.</p> <p>(iii) Sixty (60) months for (132kV/220kV/400kV Class) Transformer from the date of Taking Over/Completion of Facilities (or part thereof). For the purpose of this clause, the Measurable Defects as per the Technical Specifications shall also be considered for Transformer.</p> <p>(iv) Twelve (12) months from the date of Taking Over/Completion of Facilities for all equipment/materials other than those specified at (i), (ii) and (iii) above”.</p>		
409	Limitation of liability		Limitation of liability is not capped anywhere. We request you to kindly cap it	Bid provision shall prevail.

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			to 100% of the contract value.	
410	Section X:LT Transformer	Bidders may specifically note that transformers offered shall conform to dynamic short circuit test and dielectric test as per IEC: 60076. Test report for the same shall be submitted during detail engineering for approval.	No short circuit test shall be conducted and only calculation of dynamic short circuit shall be submitted. We request your confirmation on the same.	Provision of Bid Document shall prevail.
411		5.4. The validity of Type tests (except dynamic short circuit test) of Transformer shall be 5 years as on the date of NOA, provided that offered transformer is of same design as that of type tested transformer and active materials like - CRGO, copper conductor and insulation material are of same or better grade with respect to type tested unit. Failing which, type testing of transformer shall be carried out by the contractor at his own cost. Further, type test report of Transformer from the same manufacturing plant shall only be	We request you to amend the referred clause as below:- 5.4. The validity of Type tests (except dynamic short circuit test) of Transformer shall be 5 10 years as on the date of NOA Technical bid opening date , provided that offered transformer is of same design as that of type tested transformer and active materials like - CRGO, copper conductor and insulation material are of same or better grade with respect to type tested unit. Failing which, type testing of transformer shall be carried out by the contractor at his own cost. Further, type test report of Transformer from the same manufacturing plant shall only be acceptable. With regard to Validity of	Provision of Bid Document shall prevail.

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		acceptable. With regard to Validity of Dynamic short circuit test, refer clause 3.13 above.	Dynamic short circuit test, refer clause 3.13 above.	
412	Interest bearing mobilization advance	Interest Bearing Advance (Optional*): Ten percent (10%)	We request you to please provide interest free advance.	Bid provision shall prevail.
413	Attachment-20	Attachment – 20: Affidavit signed and stamped with company seal by a full time Director/ CEO/ Chairman-cum- Managing Director and attested/ notarized by a Magistrate/ Notary for correctness of all the information/ details/ data/documentary evidences etc. as submitted by the bidder are correct.	Kindly provide format of atachment-20 as same is not found in tender document and amendment while it is required as per tender document	Provision of Bid document is amply clear.
414	Clasue No. 9 of ITB AND Clause No. 31.1 of ITB	The Employer reserves the right to conduct e-Reverse Auction (e-RA) in accordance with clause 29.0 of ITB. Subject to ITB Clause 32, the Employer will award the contract to the successful Bidder (also referred to as the L1 Bidder)	Kindly confirm mode of finalization of order through L1 bidding or through reverse auction process.	Bid conditions are amply clear.

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415	GCC/Clause 3/ Page 7 of 42	The Contractor shall not, without the prior consent of the RECTPCL, assign the Contract or any part thereof, or any benefit or interest therein or there under, otherwise than by: (i) A charge in favour of the Contractor's bankers of any monies due or to become due under the Contract,	Please consider deletion of sub clause (i) of clause 3. Assignment of payables to bankers may be required for factoring, eventually increasing the cash flow of the project.	Bid provision shall prevail.
416	GCC/Clause 6 (i) / Page 9 of 42	".....The Engineer-in-charge shall accord and convey the approval to the design calculation and drawings, if found in order, within 30(thirty) days from the receipt of the drawings from the Contractor. Otherwise he shall apprise the Contractor of his comments on such design calculations and drawings within the above mentioned period.	Please consider adding the following after this clause. "If no action is taken within the time frame as mentioned above, the documents shall be deemed to be approved."	Bid provision shall prevail.
417	GCC/Clause 24 / Page 25 of 42	".....The Contract shall become effective on the date of signing of Contract Agreement between	Requested to kindly link commencement date with the access to site in clause 18 of GCC. The commencement date should start	Bid provision shall prevail.

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		RECTPCL & successful bidder. The effective date shall be considered as commencement date.”	after the access and hand over of site to the contractor.	
418	GCC/Clause 19 (vii) / Page 21 of 42	Clarification	Please clarify if the land / space for labour huts / housing shall be provided by the Employer.	Bid conditions are amply clear in this regard.
419	GCC/Clause 23 (i) / Page 24 of 42	Addition	Please add the following subclause : (d) Contractor shall have the right to suspend / slow the progress of works in case of delay in payment / obligations of the employer.”	Bid provision shall prevail.
420		“..... a sum equivalent to 1.0% of the Contract price plus GST payable thereon per week of delay or part thereof subject to a maximum of 10% of the Contract price plus GST payable thereon.”	Please consider the following change: “..... a sum equivalent to 1.0 0.5 % of the Contract price plus GST payable thereon per week of delay or part thereof on the balance portion of works subject to a maximum of 10 5% of the Contract price plus GST payable thereon.”	Bid provision shall prevail.
421	GCC/Clause 39 / Page 36 of 42	Limitation of Liability	Total Limitation of liability for the contract shall be maximum / limited to 100% of the contract value.	Bid provision shall prevail.
422	SCC/Clause 4 / Page 3	Indemnity	We request for introduction of reciprocal	Bid provision shall prevail.

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	of 24		indemnity to be provided by the employer to contractor.	
423	Appendix-3, Insurance Requirements	The Contractor shall take the policy in the joint names of Employer and the Contractor. The policy shall indicate the Employer as the beneficiary. However, if the Contractor is having an open policy for its line of business, it should obtain an endorsement of the open cover policy from the insurance company indicating that the dispatches against this Contract are duly covered under its open policy and include the name of the Employer as jointly Insured in the endorsements to the open policy	Please consider the following: "The Contractor shall take the policy in the joint names of and make the Employer as additional insured and the Contractor. The policy shall indicate the Employer as the beneficiary. However, if the Contractor is having an open policy for its line of business, it should obtain an endorsement of the open cover policy from the insurance company indicating that the dispatches against this Contract are duly covered under its open policy and include the name of the Employer as jointly Insured in the endorsements to the open policy	Bid provision shall prevail.
424	Appendix-7 GUARANTEES, LIQUIDATED DAMAGES FOR NON - PERFORMANCE	Clarity	A cap for the Liquidated Damages w.r.t nonperformance is required. Further rejection of the equipment may be deleted.	Bid provision shall prevail.
425	Payment		Kindly clarify whether Payment shall be	Payments shall be made by

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			done by RECTPCL or JKPDD	RECTPCL
426	Drawing Approval		Kindly clarify following:- 1. When Transfer of title will happen. 2. Drawing approval time and approval by RECTPCL OR JKPDD?	All project related activities shall be performed by RECTPCL as per Provision of the Bid document.
427		Safety	Contractor has no responsibility or liability for the pre-existing condition of purchaser's equipment or the site. Prior to contractor starting any work at site, purchaser will provide documentation that identifies the presence and condition of any hazardous materials existing in or about purchaser's equipment or the site that contractor may encounter while performing under this contract. Purchaser shall disclose to contractor industrial hygiene and environmental monitoring data regarding conditions that may affect contractor's work or personnel at the site. Purchaser shall keep contractor informed of changes in any such conditions.	Bid provision shall prevail.
428		LOL & consequential losses	The total liability of contractor for all claims of any kind arising from or related to the formation, performance or breach of this contract shall not exceed the total	Bid provisions shall prevail.

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			contract price. contractor shall not be liable for loss of profit or revenues, loss of use of equipment or systems, interruption of business, cost of replacement power, cost of capital, downtime costs, increased operating costs, any special, consequential, incidental, indirect, or punitive damages, or claims of purchaser for any of the foregoing types of damages. contractor shall not be liable for advice or assistance that is not required for the work scope under this contract.	
429		Termination and suspension by supplier for default in payments	there is no recourse available to the supplier in case timely payments are not received by supplier. supplier shall have the right to suspend performance and terminate contract at risk and cost of the employer in the event of default in payment by the employer.	Bid provision shall prevail.
430		Nuclear use	the material/equipment/services sold by the supplier are not intended for use in connection with any nuclear facility or activity, and the purchaser warrants that it shall not use or permit other to use the material/equipment/services for such	Bid provision shall prevail.

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			purpose, without advance written consent of supplier. if in breach of this, any such use occurs, supplier (and its parent, affiliate, suppliers and subcontracts) disclaims all liability for any nuclear or other damage, injury or contamination.	
431			While visiting Padum along with your representative and JKPDD Engineer, it was understood that the exact site location was yet to be identified and taken over by JKPDD. During our site visit, we were shown three alternative probable sites location in Padum itself and it was ascertained that the privately held one land location beside the main road was suitable for the installation. Kindly confirm the status. It is more relevant for us to know the exact site location in such a terrain for ascertaining the soil formation breakup including quantum of hard rock.	Suitable land for construction of substation at Padum shall be handed over to successful bidder. To address issue of Cutting & filling, suitable amendment is being incorporated in BPS. Bidders are requested to refer Amendment 4 in this regard.
432			We also understood during site visit that for bringing materials to Padum site, we need to enter from Srinagar valley through Zojila Pass. Thereafter from Kargil to	Bidders are requested to assess the site conditions by themselves, however as per information available with RECTPCL,

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			Padum we noticed two bridges which are not at all suitable for carrying heavy equipments such as Power Transformers, GIS Containers etc. Please clarify when these bridges can be made available after strengthening/reconstruction by appropriate government authorities for transport of such heavy equipments or else please clarify any alternate road route has been taken up for construction for transport of such heavy equipments to Padum site and the estimated date of readiness.	transportation of material will not be a bottleneck. In case of any requirement of Road widening, bridge strengthening etc. the same shall be in the Scope of Owner/Employer.
433			The climatic conditions being very harsh during winter, the actual working period at site or movement of truck load may be possible only in a limited period from end of May to end of September. So, we request you to kindly relook at the contractual completion period to be specified from your end in the tender document.	Bid provisions shall prevail.
434			For transporting equipments to Dixit site also we understood from the available road facilities that in such case equipments can be brought via 'Kargil' and then 'Leh' and	Bidders are requested to assess the site conditions by themselves, however in case of any requirement of Road widening,

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			then to Dixit site. But we also understood there is an alternate Manali route which can be used seasonally only for bringing equipments to Dixit. Please confirm the suitability of Manali road and strengthening of the same for passage of heavy equipments.	bridge strengthening etc. the same shall be in the Scope of Owner/Employer.
435			Along with the above we would also request you to kindly provide us the relevant SLD drawing with the proposed Layout for both the new sites at Padum and Dixit and also the two extension sites at Phyang and Drass.	Bidders are requested to refer Amendment 4.