

Amendment No. 4

Date: 02.01.2020

Name of Works: 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:-
Tender NIT Ref. No.: RECTPCL/PIA/JKPDD/SS-03 Dt. 07.11.2019

- 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.

S. No.	Volume/ Section	Clause No.	Existing Clause	To be Read as
1	VOL-1, SEC-I, INVITATI ON FOR BIDS	3.1	SS-03 - Design, Manufacturing, Supply, Erection, Testing & Commissioning of below mentioned Substations and bays on Turnkey Basis associated with Strengthening of Transmission System of JKPDD under PMDP Scheme-15:- D) Establishment of One 220kV Line bay at Phyang	SS-03 - Design, Manufacturing, Supply, Erection, Testing & Commissioning of below mentioned Substations and bays on Turnkey Basis associated with Strengthening of Transmission System of JKPDD under PMDP Scheme-15:- D) Establishment of One 220kV Line bay at Phyang E) Design, Engineering, Supply & Construction of Residential Staff Quarters & associated facilities at 50 MVA, 220/33 kV Gas Insulated Substation (GIS) at Diskit & Padum as per Technical Specification VOL-II, SEC-16(PART-2), CIVIL Works (Residential Staff Quarter) & BPS

S. No.	Volume/ Section	Clause No.	Existing Clause	To be Read as												
2	VOL-1, SEC-II, INSTRUCTION TO BIDDERS	27.5	<p>Pursuant to ITB Sub-Clause 27.4, the following evaluation methods will be followed;</p> <p>(a)..... (b)..... (c)..... (d) Work, services, facilities, etc., to be provided by the Employer.</p> <p>Where bids include the undertaking of work or the provision of services or facilities by the Employer in excess of the provisions allowed for in the Bidding Documents, the Employer shall assess the costs of such additional work, services and/or facilities during the duration of the contract. Such costs shall be added to the bid price for evaluation.</p>	<p>Pursuant to ITB Sub-Clause 27.4, the following evaluation methods will be followed</p> <p>(a)..... (b)..... (c)..... (d) Differential Price Factors for Evaluation of Bus Reactor</p> <p>The factors and the respective Indian Rupees value per unit of differential loss (applicable for each item/unit of the facilities) for purpose of calculating differential price for evaluation of Bus Reactor shall be as stipulated below:</p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Equipment</th> <th>Parameter to be taken for applying differential price factor (F)</th> <th>Value of F in Indian Rupees (applicable for each item/unit of the facilities)per unit of parameter differential per kW</th> </tr> </thead> <tbody> <tr> <td colspan="4">B. 8.33 MVAR,220kV Single Phase Bus Reactor</td> </tr> <tr> <td>1.</td> <td>Load loss (KW)</td> <td>Differential Load loss</td> <td>INR 275,970/- (Indian Rupees Two</td> </tr> </tbody> </table>	Sl. No.	Equipment	Parameter to be taken for applying differential price factor (F)	Value of F in Indian Rupees (applicable for each item/unit of the facilities)per unit of parameter differential per kW	B. 8.33 MVAR,220kV Single Phase Bus Reactor				1.	Load loss (KW)	Differential Load loss	INR 275,970/- (Indian Rupees Two
Sl. No.	Equipment	Parameter to be taken for applying differential price factor (F)	Value of F in Indian Rupees (applicable for each item/unit of the facilities)per unit of parameter differential per kW													
B. 8.33 MVAR,220kV Single Phase Bus Reactor																
1.	Load loss (KW)	Differential Load loss	INR 275,970/- (Indian Rupees Two													

S. No.	Volume/ Section	Clause No.	Existing Clause	To be Read as			
						(KW)	Lakhs Seventy Five Thousand Nine Hundred Seventy only)
3	Vol-I, Sec-IV, General Condition of Contracts	39 (i)	<p>Except in cases of gross negligence or willful misconduct,</p> <p>(a) the Contractor and the Employer shall not be liable to the other party for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Employer and</p> <p>(b) the aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment,</p>	<p>(e) Work, services, facilities, etc., to be provided by the Employer. Where bids include the undertaking of work or the provision of services or facilities by the Employer in excess of the provisions allowed for in the Bidding Documents, the Employer shall assess the costs of such additional work, services and/or facilities during the duration of the contract. Such costs shall be added to the bid price for evaluation.</p> <p>Except in cases of gross negligence or willful misconduct,</p> <p>(a) the Contractor and the Employer shall not be liable to the other party for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Employer and</p> <p>(b) the aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment,</p>			

S. No.	Volume/ Section	Clause No.	Existing Clause	To be Read as
			<p>or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement.</p>	<p>or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement.</p> <p>(c) Notwithstanding anything in this Contract to the contrary, it is agreed that neither the Contractor nor the Employer shall be liable to the other party for loss of production, loss of profit, loss of use or any other indirect or consequential damages.</p>
4	<p>Vol-I, Sec-V, Special Condition of Contracts</p>	<p>SCC Clause no. 3</p>	<p>Replacing sub-clause no. 31 (i) (a) The expression “ Defects Liability Period” shall mean a period of as provided below from the date the Works are taken over under Clause-30 (i) hereof and the Taking Over Certificate is issued in accordance with Clause-30 (ii) hereof . “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 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. (iii) Sixty (60) months for (132kV/220kV/400kV</p>	<p>Replacing sub-clause no. 31 (i) (a) The expression “ Defects Liability Period” shall mean a period of as provided below from the date the Works are taken over under Clause-30 (i) hereof and the Taking Over Certificate is issued in accordance with Clause-30 (ii) hereof . “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 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. (iii) Sixty (60) months for (132kV/220kV/400kV</p>

S. No.	Volume/ Section	Clause No.	Existing Clause	To be Read as
			<p>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> <p><i>* One no. of Circuit Breaker bay shall be considered as a bay used for controlling a line or a transformer or a reactor or a bus section or a bus coupler and comprising of at least one circuit breaker, one disconnecter and three nos. of single phase CTs / Bushing CTs.</i></p> <p>Where any part of the Works is taken over separately, the Defects Liability Period for that part shall commence on the date it was taken over.</p>	<p>Class) Transformer & Bus Reactor 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 & Bus Reactor</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> <p><i>* One no. of Circuit Breaker bay shall be considered as a bay used for controlling a line or a transformer or a reactor or a bus section or a bus coupler and comprising of at least one circuit breaker, one disconnecter and three nos. of single phase CTs / Bushing CTs.</i></p> <p>Where any part of the Works is taken over separately, the Defects Liability Period for that part shall commence on the date it was taken over.</p> <p>Further, upon correction of the defects in the Facilities or any part thereof by repair/replacement, such repair/replacement shall have the Defect Liability Period extended by a period mentioned in GCC Sub-Clause 22.2 from the time of such replacement/repair of the facilities or any part thereof.</p>
5	Vol-II, Sec-I, Project	New clause added	-	<p>3.5. Design, Engineering, Supply & Construction of Residential Staff Quarters & associated facilities at 50 MVA, 220/33 kV Gas Insulated Substation (GIS) at Diskit & Padum as per Technical Specification VOL-II, SEC-16(PART-</p>

S. No.	Volume/ Section	Clause No.	Existing Clause	To be Read as																		
				2), CIVIL Works (Residential Staff Quarter) & BPS																		
6	Vol-II, Sec-I, Project	4.2.1.1 (f)	245kV Gas Insulated Wall mounted SF ₆ to Air Bushing:- 245kV, 1600A, 1-phase SF ₆ to air bushings for outdoor overhead connections. The cantilever strength of the 245kV SF ₆ to air bushings shall be of minimum 8kN.	245kV Gas Insulated SF₆ to Air Bushing:- 245kV, 1600A, 1-phase SF ₆ to air bushings for outdoor overhead connections. The cantilever strength of the 245kV SF ₆ to air bushings shall be of minimum 8kN.																		
	Vol-II, Sec-I, Project	4.2.2 (g)	Extension of Ventilation Duct by approximately 5M	Extension of Ventilation Duct along with duct mounted strip heaters by approximately 5M																		
7	Vol-II, Sec-I, Project	Annexure-II	<table border="1"> <thead> <tr> <th>Sr .N o.</th> <th>Title of drawing</th> <th>Drawing no.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SINGLE LINE DIAGRAM</td> <td>RECTPCL/LADAKH/PADUM/SLD/01</td> </tr> <tr> <td>2</td> <td>SINGLE LINE DIAGRAM</td> <td>RECTPCL/LADAKH/DISKIT/SLD/01</td> </tr> <tr> <td>3</td> <td>SINGLE LINE DIAGRAM</td> <td>RECTPCL/LADAKH/PHYANG/SLD/01</td> </tr> <tr> <td>4</td> <td>SINGLE LINE DIAGRAM</td> <td>RECTPCL/LADAKH/DRASS/SLD/01</td> </tr> <tr> <td>5</td> <td>GENERAL ARRANGEMENT</td> <td>RECTPCL/LADAKH/GA/02</td> </tr> </tbody> </table>	Sr .N o.	Title of drawing	Drawing no.	1	SINGLE LINE DIAGRAM	RECTPCL/LADAKH/PADUM/SLD/01	2	SINGLE LINE DIAGRAM	RECTPCL/LADAKH/DISKIT/SLD/01	3	SINGLE LINE DIAGRAM	RECTPCL/LADAKH/PHYANG/SLD/01	4	SINGLE LINE DIAGRAM	RECTPCL/LADAKH/DRASS/SLD/01	5	GENERAL ARRANGEMENT	RECTPCL/LADAKH/GA/02	Drawings are attached as Annexure-A of Amendment no.4
Sr .N o.	Title of drawing	Drawing no.																				
1	SINGLE LINE DIAGRAM	RECTPCL/LADAKH/PADUM/SLD/01																				
2	SINGLE LINE DIAGRAM	RECTPCL/LADAKH/DISKIT/SLD/01																				
3	SINGLE LINE DIAGRAM	RECTPCL/LADAKH/PHYANG/SLD/01																				
4	SINGLE LINE DIAGRAM	RECTPCL/LADAKH/DRASS/SLD/01																				
5	GENERAL ARRANGEMENT	RECTPCL/LADAKH/GA/02																				

S. No.	Volume/ Section	Clause No.	Existing Clause	To be Read as															
8	Vol-II, Sec-I, Project	Annexure-II	-	<p>Following drawing added: Please refer Annexure-B of Amendment no. 4 in this regards</p> <table border="1"> <thead> <tr> <th>Sr .N o.</th> <th>Title of drawing</th> <th>Drawing no.</th> </tr> </thead> <tbody> <tr> <td>17</td> <td>LCC Drawings of Phyang (3 drgs)</td> <td>RECTPCL/LADAKH/PHYANG/LCC/14</td> </tr> </tbody> </table>	Sr .N o.	Title of drawing	Drawing no.	17	LCC Drawings of Phyang (3 drgs)	RECTPCL/LADAKH/PHYANG/LCC/14									
				Sr .N o.	Title of drawing	Drawing no.													
17	LCC Drawings of Phyang (3 drgs)	RECTPCL/LADAKH/PHYANG/LCC/14																	
9	Vol-II, Sec-I, Project	Annexure-II	-	<p>Following drawings added: Please refer Annexure-C of Amendment no. 4 in this regards</p> <table border="1"> <thead> <tr> <th>Sr .N o.</th> <th>Title of drawing</th> <th>Drawing no.</th> </tr> </thead> <tbody> <tr> <td>18</td> <td>General Arrangement</td> <td>RECTPCL/LADAKH/PHYANG/GA /15</td> </tr> <tr> <td>19</td> <td>General Arrangement</td> <td>RECTPCL/LADAKH/DRASS/GA /16</td> </tr> <tr> <td>20</td> <td>Earthmat Layout</td> <td>RECTPCL/LADAKH/DRASS/EM /17</td> </tr> <tr> <td>21</td> <td>Earthmat Layout</td> <td>RECTPCL/LADAKH/PHYANG/EM /18</td> </tr> </tbody> </table>	Sr .N o.	Title of drawing	Drawing no.	18	General Arrangement	RECTPCL/LADAKH/PHYANG/GA /15	19	General Arrangement	RECTPCL/LADAKH/DRASS/GA /16	20	Earthmat Layout	RECTPCL/LADAKH/DRASS/EM /17	21	Earthmat Layout	RECTPCL/LADAKH/PHYANG/EM /18
				Sr .N o.	Title of drawing	Drawing no.													
				18	General Arrangement	RECTPCL/LADAKH/PHYANG/GA /15													
				19	General Arrangement	RECTPCL/LADAKH/DRASS/GA /16													
				20	Earthmat Layout	RECTPCL/LADAKH/DRASS/EM /17													
21	Earthmat Layout	RECTPCL/LADAKH/PHYANG/EM /18																	

S. No.	Volume/ Section	Clause No.	Existing Clause	To be Read as															
10	Vol-II, Sec-I, Project	Annexure-II	-	<p>Following drawings added: Please refer Annexure-D of Amendment no. 4 in this regards</p> <table border="1"> <thead> <tr> <th>Sr .N o.</th> <th>Title of drawing</th> <th>Drawing no.</th> </tr> </thead> <tbody> <tr> <td>22</td> <td>Cable Trench</td> <td>RECTPCL/LADAKH/DRASS/CT /19</td> </tr> <tr> <td>23</td> <td>Cable Trench</td> <td>RECTPCL/LADAKH/PHYANG/CT /20</td> </tr> <tr> <td>24</td> <td>CRP & SAS</td> <td>RECTPCL/LADAKH/ CRP & SAS/21</td> </tr> <tr> <td>25</td> <td>PEB Building Drawing</td> <td>RECTPCL/LADAKH/ PEB Drawing/22</td> </tr> </tbody> </table>	Sr .N o.	Title of drawing	Drawing no.	22	Cable Trench	RECTPCL/LADAKH/DRASS/CT /19	23	Cable Trench	RECTPCL/LADAKH/PHYANG/CT /20	24	CRP & SAS	RECTPCL/LADAKH/ CRP & SAS/21	25	PEB Building Drawing	RECTPCL/LADAKH/ PEB Drawing/22
				Sr .N o.	Title of drawing	Drawing no.													
				22	Cable Trench	RECTPCL/LADAKH/DRASS/CT /19													
				23	Cable Trench	RECTPCL/LADAKH/PHYANG/CT /20													
				24	CRP & SAS	RECTPCL/LADAKH/ CRP & SAS/21													
25	PEB Building Drawing	RECTPCL/LADAKH/ PEB Drawing/22																	
11	Vol-II, Sec-I, Project	Annexure-II		<p>Following drawings added: Please refer Annexure-E of Amendment no. 4 in this regards</p> <table border="1"> <thead> <tr> <th>Sr .N o.</th> <th>Title of drawing</th> <th>Drawing no.</th> </tr> </thead> <tbody> <tr> <td>26</td> <td>Bus Extension Module</td> <td>RECTPCL/LADAKH/DRAS S/BM /23</td> </tr> <tr> <td>27</td> <td>Bus Extension Module</td> <td>RECTPCL/LADAKH/PHYA NG/BM/24</td> </tr> </tbody> </table>	Sr .N o.	Title of drawing	Drawing no.	26	Bus Extension Module	RECTPCL/LADAKH/DRAS S/BM /23	27	Bus Extension Module	RECTPCL/LADAKH/PHYA NG/BM/24						
				Sr .N o.	Title of drawing	Drawing no.													
				26	Bus Extension Module	RECTPCL/LADAKH/DRAS S/BM /23													
27	Bus Extension Module	RECTPCL/LADAKH/PHYA NG/BM/24																	
12	Vol-II, Sec-I, Project	Annexure-II	<table border="1"> <thead> <tr> <th>Sr .N o.</th> <th>Title of drawing</th> <th>Drawing no.</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>415V MLDB</td> <td>RECTPCL/LADAKH/ML DB/04</td> </tr> </tbody> </table>	Sr .N o.	Title of drawing	Drawing no.	7	415V MLDB	RECTPCL/LADAKH/ML DB/04	<p>Revised drawing is enclosed as Annexure-F of Amendment no. 4</p>									
			Sr .N o.	Title of drawing	Drawing no.														
7	415V MLDB	RECTPCL/LADAKH/ML DB/04																	

S. No.	Volume/ Section	Clause No.	Existing Clause				To be Read as				
13	Vol-II, Sec-I, Project		Sr .N o.	Title of drawing	Drawing no.			Revised drawing is enclosed as Annexure-H of Amendment no. 4			
			16	GA for Double Busbar Arrangement	RECTPCL/LADAKH/GSL D/13						
14		Annexure-III, Metrological Data	S.N o.	Description	Diskit	Padum		S.N o.	Description	Diskit	Padum
			iv	Altitude (above M.S.L) (mtrs)	3101	3557		iv	Altitude (above M.S.L) (mtrs)	3100	3700
15	Vol-II, Sec-IV, 33kV & 11kV Indoor Switchgear (GIS Type)	3.07 (a)	All current transformers shall preferably be ring type whereas voltage transformers (PT) shall be cast resin insulated type.				All current transformers shall preferably be ring type whereas voltage transformers (PT) shall be epoxy resin insulated type.				
16	Vol-II, Sec-IX, LT Transformer	11 (new clause added)	-				Bidder may note that applicable standard for LT Transformer may be read as IS 1180 instead of IS 2026 in the Tender documents				
17	Vol-II, Sec-XIII, DG SET	1.6.1.1	Diesel engine, alternator, AMF panel, Batteries and Chargers shall be installed outdoor in a suitable weather-proof enclosure which shall be provided for protection from rain, sun, dust etc. Further, in addition to the weather proofing, acoustic enclosures shall also be provided such that the noise level of acoustic enclosure DG set shall meet the requirement of MOEF The diesel generator sets should also conform to Nepal Environment				Diesel engine, alternator, AMF panel, Batteries and Chargers shall be installed in a suitable weather-proof acoustic enclosure. This enclosure shall be provided for protection from rain, sun, dust etc. Further, in addition to the weather proofing, Acoustic enclosures shall be designed such that the noise level of acoustic enclosure DG set shall meet the requirement of MOEF. The diesel generator sets should also conform to Environment (Protection)				

S. No.	Volume/ Section	Clause No.	Existing Clause	To be Read as
			(Protection) Rules. An exhaust fan with louvers shall be installed in the enclosure for temperature control inside the enclosure. The enclosure shall allow sufficient ventilation to the enclosed D.G. Set so that the body temperature is limit to 50°C. The air flow of the exhaust fan shall be from inside to the outside the shelter. The exhaust fan shall be powered from the DG set supply output so that it starts with the starting of the DG set and stops with the stopping of the DG set. The enclosure shall have suitable viewing glass to view the local parameters on the engine.	Rules, 1986 as amended. An exhaust fan with louvers shall be installed in the enclosure for temperature control inside the enclosure. The enclosure shall be suitably designed for temperature control inside the enclosure. The enclosure shall allow sufficient ventilation to the D.G. Set, so that temperature inside the enclosure is limited to 50°C. The air flow of the exhaust fan shall be from inside to the outside the shelter. The exhaust fan shall be powered from the DG set supply output so that it starts with the starting of the DG set and stops with the stopping of the DG set. The enclosure shall have suitable viewing glass to view the local parameters of the DG Set through display unit of Microprocessor based controller
18	VOL-II, SEC-XVI PART-1 ,CIVIL Works	21.3.5	Wall panel material specifications shall be same as roof panels. However, the thickness of the Panel shall be 135 mm.	Wall panel material specifications shall be same as roof panels. However, the thickness of the Panel shall be 50 mm.
19	VOL-II, SEC-XVI PART-2 CIVIL Works (Resident ial Staff Quarter)	17 (i)	The drawing for the water supply from bore-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. The underground pipe line shall be laid as per CPWD Specification. The ball valve, NRV etc. shall be provided as per requirement. From this pipe line a 25 mm dia tap off shall be connected by the Contractor to the roof water tank provided for the control room building & transit camp.	The drawing for the water supply from bore-well to fire water tank shall be developed by the Contractor. Bore wells and pumps for water supply is in the scope of contractor. 80 mm dia CPVC pipe shall be provided by the Contractor from the bore-well to the fire water tank. The underground pipe line shall be laid as per CPWD Specification. The ball valve, NRV etc. shall be provided as per requirement. From this pipe line a 25 mm dia tap off shall be connected by the Contractor to the roof water tank provided for the control room building & transit camp.

S. No.	Volume/ Section	Clause No.	Existing Clause	To be Read as																
20	Vol-II, Sec-XVII, (Control And Relay Panel)	33	<p>CONFIGURATION OF RELAY AND PROTECTION PANELS</p> <p>.....</p> <p>.....</p> <p>LINE PROTECTION PANEL (220 & 132kV)</p> <p>.....</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Description</th> <th>220 kV</th> <th>132 kV</th> </tr> </thead> <tbody> <tr> <td>9.</td> <td>Cut-out and wiring with TTB for supplied energy meter</td> <td>1 Set</td> <td>1 Set</td> </tr> </tbody> </table> <p>.....</p> <p>.....</p>	S.No.	Description	220 kV	132 kV	9.	Cut-out and wiring with TTB for supplied energy meter	1 Set	1 Set	<p>CONFIGURATION OF RELAY AND PROTECTION PANELS</p> <p>.....</p> <p>.....</p> <p>LINE PROTECTION PANEL (220 & 132kV)</p> <p>.....</p> <table border="1"> <thead> <tr> <th>S.No.</th> <th>Description</th> <th>220 kV</th> <th>132 kV</th> </tr> </thead> <tbody> <tr> <td>9.</td> <td>Cut-out and wiring with TTB for supplied energy meter of 0.2 S TVM by the contractor</td> <td>1 Set</td> <td></td> </tr> </tbody> </table> <p>.....</p> <p>.....</p>	S.No.	Description	220 kV	132 kV	9.	Cut-out and wiring with TTB for supplied energy meter of 0.2 S TVM by the contractor	1 Set	
S.No.	Description	220 kV	132 kV																	
9.	Cut-out and wiring with TTB for supplied energy meter	1 Set	1 Set																	
S.No.	Description	220 kV	132 kV																	
9.	Cut-out and wiring with TTB for supplied energy meter of 0.2 S TVM by the contractor	1 Set																		
21	Vol-II, Sec-XVIII, (Substation And Automation System)	10.1	<p>Training Contractor personnel who are experienced instructors and who speak understandable English shall conduct training. The contractor shall arrange on its own cost all hardware training platform required for successful training and understanding in Nepal. The Contractor shall provide all necessary training material. Each trainee shall receive individual copies of all technical manuals and all other documents used for training. These materials shall be sent to Employer at least two months before the scheduled commencement of the particular training course. Class materials, including the documents sent before the training courses as</p>	<p>Training Contractor personnel who are experienced instructors and who speak understandable English shall conduct training. The contractor shall arrange on its own cost all hardware training platform required for successful training and understanding in India. The Contractor shall provide all necessary training material. Each trainee shall receive individual copies of all technical manuals and all other documents used for training. These materials shall be sent to Employer at least two months before the scheduled commencement of the particular training course. Class materials, including the documents sent before the training courses as</p>																

S. No.	Volume/ Section	Clause No.	Existing Clause	To be Read as
			<p>well as class handouts, shall become the property of Employer. Employer reserves the right to copy such materials, but for in-house training and use only. Hands-on training shall utilize equipment identical to that being supplied to Employer.</p> <p>The Contractor shall quote training prices as indicated in BPS. The schedule, location, and detailed contents of each course will be finalized during Employer and Contractor discussions.</p>	<p>well as class handouts, shall become the property of Employer. Employer reserves the right to copy such materials, but for in-house training and use only. Hands-on training shall utilize equipment identical to that being supplied to Employer.</p> <p>The Contractor shall quote training prices as indicated in BPS. The schedule, location, and detailed contents of each course will be finalized during Employer and Contractor discussions.</p>
22	Vol-II, Sec-XIX, (Transformer)	2.2	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 to existing road, bridges, culverts etc. if required, shall be in the scope of the contractor	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 to existing road, bridges, culverts etc. if required, shall be in the scope of the Owner/Employer
23	Vol-II, Sec-XIX, (Transformer)	15.4.2	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),	For new substation, the contractor shall provide 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.
24	Vol-II, Sec-XIX, (Transformer)	--Q	-	Missing Annexure Q is enclosed as Annexure-I of Amendment no. 4

S. No.	Volume/ Section	Clause No.	Existing Clause				To be Read as			
25	VOL-III, BID FORMS AND ATTACHMENT	ATTACHMENT-10	ATTACHMENT-10 (Guarantee Declaration)				<p>Revised ATTACHMENT-10 (Guarantee Declaration) is enclosed as Annexure-G of Amendment no. 4.</p> <p>Note: It is to be noted that complete Bid forms are issued as Annexure-G of amendment 4 for each of submission of response by the bidders. However, all attachments in the revised bid forms are same as Amendment-4 issued originally except attachment10</p>			
VOL-III, PRICE SCHEDULE, 220/33kV New GIS Grid Substation at Diskit, Ladakh, U.T										
26	VOL-III, PRICE SCHEDULE, 220/33kV New GIS Grid Substation at Diskit, Ladakh, U.T	Schedule-1	S.no.	Description	Unit	Qty	S.no.	Description	Unit	Qty
			A1.1	POWER TRANSFORMER			A1.1	POWER TRANSFORMER		
			a)	50MVA (3x16.67 + 1x16.67 Spare), 220/33 KV, Single Phase transformers (Excluding insulating oil)	Nos.	4	a)	16.67 MVA, 220/33 KV, Single Phase transformers (Excluding insulating oil) as per TS	Nos.	4
27	VOL-III, PRICE SCHEDULE, 220/33kV New GIS Grid Substation at Diskit, Ladakh, U.T	Schedule-2	S.no.	Description	Unit	Qty	S.no.	Description	Unit	Qty
			A1.1	POWER TRANSFORMER			A1.1	POWER TRANSFORMER		
			a)	50MVA (3x16.67 + 1x16.67 Spare), 220/33 KV, Single Phase transformers (Excluding insulating oil)	Nos.	4	a)	16.67 MVA, 220/33 KV, Single Phase transformers (Excluding insulating oil) as per TS	Nos.	4
28	VOL-III, PRICE	Schedule-3	S.no.	Description	Unit	Qty	S.no.	Description	Unit	Qty

S. No.	Volume/ Section	Clause No.	Existing Clause				To be Read as			
	SCHEDULE, 220/33kV New GIS Grid Substation at Diskit, Ladakh, U.T		A1.1	POWER TRANSFORMER			A1.1	POWER TRANSFORMER		
		a)	50MVA (3x16.67 + 1x16.67 Spare), 220/33 KV, Single Phase transformers (Excluding insulating oil)	Nos.	4	a)	16.67 MVA, 220/33 KV, Single Phase transformers (Excluding insulating oil) as per TS	Nos.	4	
29	VOL-III, PRICE SCHEDULE, 220/33kV New GIS Grid Substation at Diskit, Ladakh, U.T	Schedule-3, Part- B, Vendor assessed Quantity,					S.no.	Description	Unit	Qty
			S.no.	Description	Unit	Qty	A1	Earthing material Risers, Equipment earthing, structures earthing etc. inside and outside GIS Hall for complete scope of work as per technical specifications	LS	1
						A1	Earthing material Risers, Equipment earthing, structures earthing etc. inside and outside GIS Hall for complete scope of work as per technical specifications	LS	1	
						a)	40 mm Dia MS Rod	MT	150	
						b)	In rocky soil where getting required earth resistance is not possible: Chemical Electrolytic Type earthing (As per IEEE- 80)	Nos.	15	
30	VOL-III, PRICE SCHEDULE, 220/33kV New GIS Grid	Schedule-3, Part-C Civil Works	No such line item				S.no.	Description	Unit	Qty
							2.2	Excavation of Soil & backfilling with same excavated soil		

S. No.	Volume/ Section	Clause No.	Existing Clause	To be Read as						
	Substation at Diskit, Ladakh, U.T			a)	Soft rock	Cum	1000			
				b)	Normal Soil	Cum	10000			
31	VOL-III, PRICE SCHEDULE, 220/33kV New GIS Grid Substation at Diskit, Ladakh, U.T	B. Design, Engineering, Supply & Construction of Residential Staff Quarters & associated facilities at 50 MVA, 220/33 kV Gas Insulated Substation (GIS) at Diskit (Nubra Region) Cl. No.4	No such line item	S.no.	Description	Unit	Qty			
				4	Design, Engineering and Construction of Boundary wall for Township 1.5 Mtr height with RCC column & 230 thick brick work including excavation, RCC, reinforcement steel, plaster, painting complete including one MS Sheet gate of 4 Mtr.	RM	100			
VOL-III, PRICE SCHEDULE, 220/33kV New GIS Grid Substation at Padum, Ladakh,U.T										
32	VOL-III, PRICE SCHEDULE, 220/33kV New GIS Grid Substation at Padum,	Schedule-1	S.no.	Description	Unit	Qty	S.no.	Description	Unit	Qty
			A1.1	POWER TRANSFORMER			A1.1	POWER TRANSFORMER		
			a)	50MVA (3x16.67 + 1x16.67 Spare), 220/33 KV, Single	Nos.	4	a)	16.67 MVA, 220/33 KV, Single Phase transformers	Nos.	4

S. No.	Volume/ Section	Clause No.	Existing Clause				To be Read as			
	Ladakh, U.T			Phase transformers (Excluding insulating oil)				(Excluding insulating oil) as per TS		
33	VOL-III, PRICE SCHEDULE, 220/33kV New GIS Grid Substation at Padum, Ladakh, U.T	Schedule-2	S.no.	Description	Unit	Qty	S.no.	Description	Unit	Qty
			A1.1	POWER TRANSFORMER			A1.1	POWER TRANSFORMER		
			a)	50MVA (3x16.67 + 1x16.67 Spare), 220/33 KV, Single Phase transformers (Excluding insulating oil)	Nos.	4	a)	16.67 MVA, 220/33 KV, Single Phase transformers (Excluding insulating oil) as per TS	Nos.	4
34	VOL-III, VOL-III, PRICE SCHEDULE, 220/33kV New GIS Grid Substation at Padum, Ladakh, U.T	Schedule-3	S.no.	Description	Unit	Qty	S.no.	Description	Unit	Qty
			A1.1	POWER TRANSFORMER			A1.1	POWER TRANSFORMER		
			a)	50MVA (3x16.67 + 1x16.67 Spare), 220/33 KV, Single Phase transformers (Excluding insulating oil)	Nos.	4	a)	16.67 MVA, 220/33 KV, Single Phase transformers (Excluding insulating oil) as per TS	Nos.	4
35	VOL-III, PRICE SCHEDULE, 220/33kV New GIS Grid Substation at Padum,	Schedule-3, Part- B, Vendor assessed Quantity,	S.no.	Description	Unit	Qty	S.no.	Description	Unit	Qty
			A1	Earthing material Risers, Equipment earthing, structures earthing etc. inside and outside GIS Hall for complete scope of work as per technical specifications	LS	1	A1	Earthing material Risers, Equipment earthing, structures earthing etc. inside and outside GIS Hall for complete scope of work as per technical specifications		

S. No.	Volume/ Section	Clause No.	Existing Clause	To be Read as																			
	Ladakh, U. T			a)	40 mm Dia MS Rod	MT	150																
				b)	In rocky soil where getting required earth resistance is not possible: Chemical Electrolytic Type earthing. (As per IEEE- 80)	Nos.	15																
36	VOL-III, PRICE SCHEDULE, 220/33kV New GIS Grid Substation at Padum, Ladakh, U. T	Schedule-3, Part-C Civil Works	No such line item	<table border="1"> <thead> <tr> <th>S.no.</th> <th>Description</th> <th>Unit</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>2.2</td> <td>Excavation of Soil & backfilling with same excavated soil</td> <td></td> <td></td> </tr> <tr> <td>a)</td> <td>Soft rock</td> <td>Cum</td> <td>1000</td> </tr> <tr> <td>b)</td> <td>Normal Soil</td> <td>Cum</td> <td>10000</td> </tr> </tbody> </table>				S.no.	Description	Unit	Qty	2.2	Excavation of Soil & backfilling with same excavated soil			a)	Soft rock	Cum	1000	b)	Normal Soil	Cum	10000
S.no.	Description	Unit	Qty																				
2.2	Excavation of Soil & backfilling with same excavated soil																						
a)	Soft rock	Cum	1000																				
b)	Normal Soil	Cum	10000																				
37	VOL-III, PRICE SCHEDULE, 220/33kV New GIS Grid Substation at Padum, Ladakh, U.	B. Design, Engineering, Supply & Construction of Residential Staff Quarters & associated facilities at 50 MVA, 220/33 kV	No such line item	<table border="1"> <thead> <tr> <th>S.no.</th> <th>Description</th> <th>Unit</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>Design, Engineering and Construction of Boundary wall for Township 1.5 Mtr height with RCC column & 230 thick brick work including excavation, RCC, reinforcement steel,</td> <td>RM</td> <td>100</td> </tr> </tbody> </table>				S.no.	Description	Unit	Qty	4	Design, Engineering and Construction of Boundary wall for Township 1.5 Mtr height with RCC column & 230 thick brick work including excavation, RCC, reinforcement steel,	RM	100								
S.no.	Description	Unit	Qty																				
4	Design, Engineering and Construction of Boundary wall for Township 1.5 Mtr height with RCC column & 230 thick brick work including excavation, RCC, reinforcement steel,	RM	100																				

S. No.	Volume/ Section	Clause No.	Existing Clause	To be Read as
	T	Gas Insulated Substation (GIS) at Padum (Zanskar) Cl. No.4		plaster, painting complete including one MS Sheet gate of 4 Mtr.
38	Vol-II, Sec-XV, (Structure)	1.0 (General)	New Description	Technical Specifications of Grade C Structural Steel is attached as Annexure-J of Amendment 4
39	Vol-II, Sec-IV, (Indoor Switchgear)	3.01 (i) Switchgear Panel	Switchgear shall have an Internal Arc Classification of IAC-A-FLR 25 KA, 3 sec.	Switchgear shall have an Internal Arc Classification of IAC-A-FLR 25 KA, 1 sec.