

CORRIGENDUM/ADDENDUM-II

13.02.2020

NIT No: WAP/ENVT/H-3082/CSEZ/O&M/RMU/2020/58 dated 16.01.2020

Title: Replacement of Existing HT panel in SDF-16 with New IP 67 indoor type RMU at Cochin Special Economic Zone

Sl. No	Description	As per NIT/CORRIGENDUM	Revised as follows
1	Sl No.11 of Page No.4 of Technical Bid: Last date & time for online submission of Technical & Financial Bid.	13.02.2020 up to 13:00 hours	20.02.2020 up to 13:00 hours
2	Sl No.12 of Page No.4 of Technical Bid: Offline Submission of Tender Fees, EMD etc. as detail in Tender.	13.02.2020 up to 15:00 hours	20.02.2020 up to 15:00 hours
3	Sl No.13 of Page No.4 of Technical Bid: Online opening of Technical Bid.	13.02.2020 at 15:30 hours	20.02.2020 at 15:30 hours
4	Sl No.IV. of Page No.27 of Technical Bid: Contract Period	The duration of contract will be two months from the date of start of work.	The duration of contract will be three months from the date of start of work.
5	Sl No.II of Page No.27 of Technical Bid: Warranty of materials	The materials as supplied by the agency shall have the warranty of two years.	The materials as supplied by the agency shall have the warranty 18 months from date of delivery or 12 months from the date of Commissioning, whichever is earlier.

SI. No	Description	As per NIT/CORRIGENDUM	Revised as follows
6	Additional Condition	-	Bidders shall have valid A grade Electrical Contractor Licensee issued by Kerala State Electricity Licensing Department for 11kV works.

Reply to the Pre-bid queries of prospective bidders

SI No	Query	Clarification/Reply
1	Existing RTU' & asking to consider the VA burden of Aux PT suitable for catering the RTU requirement, we need to get the wattage or VA required for existing RTU.	There is no RTU existing at present. However ,the Auxiliary PT provided for auxiliary supply of 110 V/230 V as required for breaker operation, indication and control supply, spring charging, battery charger etc. and also to cater to the future VA requirement for remote RTU. In any case, the total VA rating of Auxiliary transformer shall be 500 VA minimum.
2	Specification of the requirement is not having the clarity, Is it RMU or HT panel	Item specified is RMU type compact switchgear.
3	Any problem with the Proposal of 11KV Indoor RMU with 1no Incomer and 4nos Outgoing in One Tank Module i.e. Type - +VVVVV+ (Consists of 5nos VCB) and 2nos Outgoing in another Tank Module ie. Type - +VV+ (Consists of 2nos VCB), Both the module shall be coupled via Bus bar.	The proposal by Bidder is acceptable. However the RMU shall be outdoor type with degree of protection IP54 for outer shell/enclosure and IP 67 for SS tank

4	Please confirm whether Multi-function meter has to be considered inside RMU, If Yes MET CT/PT rating has to be clarified. We can offer SEP Cubicle for MET which consists of Auxiliary Transformer and PT whereas MET CT shall be cable mounted inside Cable compartment. Also CT shall be ring core CT (LT CT) Inside cable compartment and separate CTs for MET and Protection, otherwise combined CTs are not suitable.	Multifunction meter is required only for Incomer VCB. The metering CT ratio for the same shall be 200/100/1 A, Class 0.5. The PT for metering shall be $11kV/\sqrt{3}/110V/\sqrt{3}$ of 100 VA, class 0.5 rating. Separate metering cubicle is not required for catering the multifunction meter. Dual core CT can be provided for incomer feeder also one core for metring and another core for protection.
5	Please confirm whether SCADA FRTU is in scope of manufacturer or only provision of SCADA to be considered inside RMU	SCADA FRTU is not in the scope of manufacturer. Only provision for communicating to future SCADA such as on -OFF indication status, trip status, fault indication, breaker ready/ trip circuit healthy etc.) need to be provided.
6	Auxiliary supply Transformer – whether it can be TOP mounted design of RMU or separate cubicle for accommodating Auxiliary Transformer	Top mounted design as per OEM standard is acceptable. No need of separate cubicle for Auxiliary Transformer
7	Fault Passage Indicator cannot be mounted inside RMU with the combination of all breakers +VVVVV+ & +VV+	Fault passage indicator is not necessary.
8	Please clarify the WARRANTY period of RMU to be offered	18 months from date of delivery or 12 months from the date of Commissioning, whichever is earlier.
9	Cable test rod has asked to provide in IV Point Design – General – Please ensure whether it is to be considered in easy Breaker cable compartment module	Not necessary.
10	It is shown Metallic spraying of Zinc and Aluminium and other place it has shown enclosure will have IP 54 with salt spray Test – Please note that being Indoor Application said RMU shall be IP 4X and it is Stainless steel Tank and only cable compartment door will have painting with high anti corrosive	The RMU shall be outdoor type (though proposed to be installed indoor) with outer shell IP 54 degree of protection and the ss tank of IP 67 Degree. The outer shell and metallic enclosure/cable compartment door shall be painted as per OEM standard.
11	Whether IP characteristics shall be IP4X being Indoor application instead of IP 54 and same time Tank shall be IP 67	The RMU shall be outdoor type(though proposed to be installed indoor) with outer shell

		IP 54 degree of protection and the SS tank of IP 67 Degree
12	<p>In the clause.4 – Construction – It has shown VCB Truck – Being encapsulated SF6 Gas Tank RMU design is Fixed type Vacuum interrupter immersed in SF6 Gas tank.</p> <p>Is it necessary to have VCB truck?</p>	VCB Truck not required. OEM standard is accepted
13	<p>In the clause extensibility – It has shown Extendable Busbar bushing on roof or rear or bottom is not acceptable –</p> <p>Shall we offer Type Tested design of Indoor RMU with Busbar coupled externally on TOP of each combination with extendable Bushing and same will be covered to avoid any RAT/ROD Entry or any Moisture or Humidity. Such design is accepted by both state and Central Power utility and other customer and is working well.</p> <p>Also the advantage of external Busbar on TP side is that we can avoid any access or coupling direct with SF6 Gas tank and it may difficult if any failure occurs later stage.</p>	RMU shall be outdoor type and extentable either on sides or top side. Extension on back and bottom are not acceptable
14	<p>In clause.9 LOAD Break switch – Being all modules are Vacuum circuit breaker –</p> <p>Shall we consider VCB?</p>	All modules shall be VCB..
15	In clause .12- BUSBAR – Shall we consider SF6 Gas insulated not AIR Insulated	The individual bus bar for each module inside the SS Tank shall be of SF6 gas insulated, however external coupling (panel to panel) bus bar shall be of air insulated with suitable HT sleeve or as per OEM standards.
17	In clause Cable Entry – Whether the cable entry could be Front Bottom side is offered by us	Cable entry shall be from bottom entry, won't have an issue even if it is from front side.
18	Please confirm the Clause V – Bus sectionaliser with LBS – Not applicable	Not necessary.

19	Please confirm - Clause Indication letters – MIMIC diagram and PB only available with different colour	As per OEM Standard.
20	Auxiliary supply – Kindly mention the rating of Auxiliary Transformer required	11000/110/230V auxiliary transformer of adequate VA rating 500 VA, CL:0.5 minimum for electrical operations (for all auxiliary supply supply spring charge motor, AC supply for battery charger, tripping coil etc)
21	Voltage Transformer – Not applicable	Voltage transformer for multi-function meter for incomer VCB shall be of 11KV/110V, 100VA, CL:0.5
22	Mandatory Spare & Tools – Please confirm the items required	Operating handle, spring charging knob, for spring charging, disengage knob etc. as per OEM Standard. However following spares shall be supplied along with the RMU panels: Actuator for VCB operation - 1 No, and Printed Circuit Board for VCB- 2 nos.
23	As a manufacturer Our scope is limited to Design, Engg, Manufacturing, and Factory Testing of 11kV Indoor RMU, otherwise Dismantling of existing RMU is excluded from our scope.	As detailed in the tender, the scope of work includes supply of new RMU type VCB panel, dismantling existing HT panel, installation, testing and commissioning of new RMU type panel including obtaining approval/energization order from Kerala State Electrical Inspectorate as specified, as a total package. Exclusion of any part of the scope of work is not acceptable and such bids will be liable for rejection.
24	Rated operating sequence of VCB	As per OEM standards.
25	Clause No. IV Design- The design dimension shall be as per manufacturer type tested design-	OEM's type tested design can be accepted.
26	Clause No 2- Service condition- Offered RMU Enclosure type tested for ingress protection of IP 54 & SF gas Stainless steel tank for IP 67	RMU shall be outdoor type with degree of protection IP54 for outer shell/enclosure and IP 67 for SS tank

27	Clause no 10 - Circuit breaker- CT ratio for protection	Incomer VCB shall be provided with protection CT 200-100/1A CL 5P10, 2.5 VA and metering CT shall be 200-100/1A, 2.5 VA, Class 0.5. For outgoing VCBs protection CTs shall be of 100-50/1A, Class 5P10.
28	Clause No 15- Cable termination in RMUs- cable box offered will be air insulated and phase clearance shall be as per IEC and manufacturers type tested deign	Cable box offered with air insulated and phase clearance e as per IEC and manufacturers type tested deign is accepted.
29	Additional tests: WAPCOS reserve the right of having at contractors expensed any other tests	Type test certificates and routine test reports/ certificates shall be submitted .Site commissioning test reports shall be submitted. No other additional tests are required.

For and on behalf of WAPCOS LIMITED
(Sd/-)
General Manager (SEZ)
WAPCOS Limited,
CSEZ Project Office