

CORRIGENDUM

Annexure-A

LIQUIDATED DAMAGES FOR SHORTFALL IN PERFORMANCE

1.1 The bidder shall guarantee that the equipment offered shall meet the rating and performance requirements stipulated for various equipment covered in this specification. The bidder shall also furnish a declaration in the manner prescribed and included in the relevant schedule of bid proposal sheets and procedures as specified elsewhere in the specification for guarantees which shall attract liquidated damages for non-performance. The bidder shall declare the guaranteed fuel consumption for the DG set in Form4B of Bid proposal sheet.

1.2 Liquidated Damages for extra fuel consumption

1.2.1 The fuel consumption should be minimum 3.65kwh/ liter (i.e. less than 230 Gms/Kwhr) at termination point of each DG set at rated output (100% Load).

1.2.2 The fuel consumption at Rated Output (100% Load) Load, 80% load, 60% load & 40% load of the Diesel Generator set, measured during factory test FAT for 1hour at each load & each DG set as well as site tests (SAT) for 72 hours.

Weighted average specific fuel consumption value considering 16hrs, 3 hrs, 3 hrs & 2 hrs of operation at 100%, 80%, 60% & 40% respectively shall be considered as reference SFC for fulfillment of guarantee.

1.2.3 If the guarantees are not established at factory as well as site tests, then the DNSPCL at his discretion may reject or accept the equipment after assessing the liquidated damages as per table.

The above Liquidated damages shall be separately applicable for each DG Set.

1.2.4 Should the results of the performance and guarantee tests show that the equipment/ systems have failed to meet the guarantee parameters, the bidder shall carry out modifications, if considered necessary, within 30 days of the notification by the DNSPCL.

1.2.5 If the equipment fails to meet the guarantee parameters at the end of the stipulated 30 days, DNSPCL may at his discretion, reject the equipment or accept it after assessing the liquidated damages at rates specified herein, to be payable by the Contractor.

1.3 Liquidated Damages for output reduction

LD for output reduction per KW reduction in output from the guaranteed value shall be Rs 15000 / KW.

1.4 Liquidated Damages for delay in commission of the project

1.4.1 In case the bidder supplier fails to complete the work in time period specified in the award of contract. Liquidity damage @ 0.5% (half percent) will be deducted per week for the delay of supply or part thereof subject to a maximum 5% of the total value of the contract price.

Table for determination of Liquidated damages

A	Liquidated Damages for Extra fuel Consumption In shortfall of Gms/KWhr as against weighted average of fuel consumption at different loads.	Rs.30 Lakhs (Rupees Thirty Lakhs) Gm/KWhr per DG Set.
B	Liquidated Damages for failure to complete the work within the time frame	0.5% will be deducted per week for the delay of supply or part thereof subject to a maximum 5% of the total value of the contract price.

1.5 Total Liability of both delay and fuel consumption shall be limited up to 20% of the supply value.

4.2 Revised Form 4B: Cost of EPC Services

Sr. No.	ITEMS	AMOUNT (In Rupees)
DG 5 x 500 KVA Diesel Power Generator Plant		
1	Supply, Transport, Storage, Erection, Commissioning & Testing (herein after called as Supply)Services of 5 X 500 KVADG Diesel Generator Power Project at Neemrana Industrial Area	
Total Cost of the Supply for the 5 X 500 KVA DGDG Power Project		
Guaranteed output (KW) @0.8 PF		<u>KW</u>
Guaranteed Specific Fuel Consumption (Gms/KW hr) based on diesel density of 840 Kg/m³ at 15^o C. 100 % 80% 60% 40%		<u>Gms/KW hr</u>
For evaluation rated load shall be for 16 hrs, 80% load for 3 hrs, 60% load for 3 hrs & 40% load for 2 hrs		

Note:

1. The Price quoted by the EPC Contractor should be in Indian Currency Only.
2. The entire price quoted should include Cost towards Insurance, Packaging, Freight, All Applicable State and Central Taxes and Duties etc.
3. The client will not reimburse any other amount over and above quoted by bidder.
4. Payment shall be made as per approved billing schedule to be submitted by bidder.

Annexure-C

Sr. No.	Items	Description
1	DG Specification	<ol style="list-style-type: none"> 1. Generator Rating and its numbers 2. Generator X_d', X_q', X_d, X_q 3. Response at the time of Load Cutoff (load fluctuation) 4. whether there is quantity control 5. Resonance frequency, Inertial Moment, Shaft Rigidity, Damping Constant of generator 6. number of cylinder 7. AVR 8. Governor 9. Step Response Time 10. Inertia Constant 11. Impedance 12. Control Block Diagram
2	DG performance	How much capability the DG has to respond solar radiation fluctuation, sudden change like PCS/Inverter stop?
3	DG performance	What is the DG start-up time?
4	DG performance	Is there DG which can be operated at utmost lowest load?
5	DG Control	What is the mode of generator operation? (Both Governor and Isochronous are possible?)
6	General Information	<ol style="list-style-type: none"> 1. If something like 'Load Share Line' is available to connect 5 set of DG, is isochronous mode operation possible to all DGs? 2. If 5 set of DG is connected by above 'Load Share Line', could you make stand-by DG idling status? 3. If the idling status is available, how fast could you raise up to full load from the idling status? 4. How fast raise up to full load from the stop status? 5. It's good that the reverse protection time is as long as possible. What is recommended set value? 6. The instant load raise ratio is supposed to be about 60% of rating load. Is it right? 7. Please provide minimum load percentage. Lower minimum load % is better to keep PCS output as large as possible.
7	Communication	All parameters available on Modbus Protocol