

Advisory Inputs to Standard Bidding Document

All PIA are requested to go through bidding documents thoroughly before using it for the bidding purposes. Any state specific technical changes may be incorporated in the documents.

No	Description	Action
1	Quantities in Price schedule	The quantities in price schedule are kept blank. The PIA shall be required to fill up the quantities of various items in the Price schedules as per their requirements. However, while filling up the quantities, care has to be taken so that per Unit Schedule of Rates Quantities, mean quantities of materials of per km of line or quantity of materials of per DTR substation or quantities of materials of per Grid Substation multiplying by number of kms of line or number of DTR or number of Grid Substation should be match the total required quantities.
2	Check list	Various project specific details are to be updated by PIA to enable Standard Bidding Documents fit for their particular project. A check list showing all those changes are summarized and enclosed at Annexure III.
3	Substation	PIA to finalize type and capacity of Grid Substation before preparing BOQ quantities for Grid Substation. Two types of substations are envisaged in the documents. PIA shall select any one type of these two substation. <ul style="list-style-type: none"> a. Fully outdoor, and b. Partly outdoor.
4	Type testing	No type testing is envisaged in the RGGVY projects. But material having type tested design shall only be acceptable. Hence, the supplier has to submit type test certificate in support of materials like VCB, Power Transformer, Distribution Transformers, Battery, CTs, PTs, Power and Control cables, Energy Meters.
5	Award of substation contract	The zero date of contract for award of 33/11kV substation shall be counted from availability of land and handing over to turnkey contractor. The contract shall only be awarded after the land is identified.
6	Form C issuance	PIA to examine at their end the possibility of issuance of concessional tax form C to turnkey contractor. In case, PIA is having difficulties in issuance of form C, the issue may suitably be addressed in the bid documents. Also, the difficulties faced during X and XI plan in cases where CPSUs are executing the projects on behalf of State wherein difficulties are faced by Energy Deptt./DISCOM in issuance of concessional C forms, are required to be settled before issuance of bids.
7	Price schedule	The price schedules shall be uploaded on web portal. Prospective bidders shall quote their rates on these Price Schedules. These price schedules shall further be used by successful contractor for uploading of physical as well as financial progress of the projects periodically. Cumulative progress in terms of previous progress as well as 'since previous' and up-to-date (current) progress shall be uploaded.
8	Estimate for the work based on Price Schedule	PIAs are requested to prepare their estimate based on various quantities and rates for various items in the Schedule of Rates. This would facilitate them to compare it with quoted rates of bidders to finalize the bid for award. The quoted price of bid should be compared with estimated cost so derived. PIA may, at their suitability, opt for bidding based on % up or down cost of bidder on their estimated cost of various items. In this case, item wise estimate cost of works are to be derived by PIA and up-front intimated to bidder. Here all the items, which are not specifically mentioned
9	Cost of Bid Document	PIA to decide the cost of their bid document and suitably incorporate the condition in the Standard Bidding Documents.
10	E-tendering	The RGGVY works shall be awarded through e-tendering mode only. For this, PIA has to engage a service provider who would support them in uploading SBD on web portal, uploading results of Pre Bid Conference, On-line submission and opening of Price Schedules and other activities involved with e-tendering. The PIA shall be required to nominate their authorized officials to whom service provider will provide official permission of opening of bids/extension of bids etc.
11	Deviation from SBD	The deviation from SBD, which are unavoidable, shall require prior approval of Monitoring Committee with proper justification. However, no deviation from Ministry of Power, GoI Office Memorandum 44/10/211-RE dated 02.09.2013 shall be permitted.
12	DC System	A Direct Current battery system of 30V has been specified in the SBD. PIAs may change the voltage requirement according to their standard practices.

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13	Ambient Conditions	PIA may stipulate the ambient conditions in equipment specification etc. according to environment conditions of their respective state / region.
14	Specification for 66/11 kV system (66 kV line and 66/11kV S/s)	The BOQ and corresponding equipment specifications have been prepared for 33 KV Line and 33/11 KV Substation in the SBD. PIA shall use such details as per their requirements. In case PIA are having 66 KV lines and 66/1 KV Substations under the RGGVY XII Plan scope, standards followed for such works in the state are to be used for the tender.
15	Transformer Size for 33/11 kV substations	For 33/11 kV sub-station, 3150 kVA and 5000 kVA transformers have been specified in the SBD. PIAs may use sizes based on site requirement.
16	CT ratio and PT Ratio and burden	PIAs may use CT and PT ratio and burden according to prevailing practice in the state. The CT ratio may be chosen according to load conditions.
17	Short- Circuit Current ratings	A short-circuit current rating of 25 KA has been preferred in the equipment specification, looking into the increase in short-circuits current levels with load growth.
18	Continuous Current ratings	The continuous current ratings for 33 kV and 11kV equipment have been specified as 800 A and 1250 A respectively. PIAs may specify ratings in consultation with the state utility.
19	LED Lamp	Minimum 7 watts LED lamps are to be used in single phase consumer premises having screw type mounting facility. Detailed specifications of LED lamps are enclosed.
20	Dispute between documents	In case of conflicts between technical specifications, scope of works, and Price Schedules; detailed mentioned in the Price Schedules will prevail, then details mentioned in Scope of Work will prevail.
21	V- Cross arms	The drawings of 33 KV and 11 KV V-Cross Arms is specifically enclosed in the tender drawings. These drawings are to be used in all locations. In some of the tender drawings, wherein pole structures are shown for some other information like angle location, cut-off locations etc the V-cross arms other than as shown above are shown. However, specific designated V-Cross arms are to be used in all the locations.
22	Other items not specifically shown	There may be some items whose details, technical specifications and drawings are not covered in enclosed documents. In all such locations, State practices are to be followed.
23	HG Fuse	In 11/0.415 KV Distribution Transformer Substation, provision of HG Fuse is kept. State to review it and may change it as per their practice.
24	Power Transformer	Power Transformer of capacity 3.15 MVA without tap changer and 5 MVA with tap changer are envisaged in the bid documents. In hilly state, where power transformer of capacity less than 3.15 MVA is to be installed, suitable changes in the documents may be permitted for this change.
25	Type of Power substation	Two type of power substation are kept. One is fully outdoor and another is partly outdoor. PIA will require to choose type of substation as per their requirement.
26	Power Substation Structure	Two options have been kept for substation structures. One is with lattice structure and another is with RS Joist. PIA may choose any one of these option and suitable correct the bid document. Price Schedule with both these options may also be suitably changes.
26	Earth mat	25 mm dia MS rod have been considered for earth mat. State may use other size of MS rod as per their state practice.
27	Factor of safety for PSC pole	Factor of safety for 33 KV and 11 KV PSC/PCC pole may be considered as 2.5 or as per state practices.
28	Capacitor bank	600 KVAR capacity bank is considered for 3.15MVA and 1200 KVAR capacity bank is considered for 5 MVA substation. State may use capacitor bank capacity as per their practice/load requirement.
29	Capitalisation of losses in transformer	Acceptable losses of power transformers and distribution transformers have been specified in the bid. PIA may note it.
30	Price Schedule	In price schedule, both the type of substation (Fully outdoor & Partly outdoor) are kept. PIA to take a decision on type of substation they want to use. Accordingly, price schedules shall be used.
31	Zero date for substation	Selection of land, Land acquisition, levelling, retaining walls, schematic layout of substation, approach road to substation are in the scope of PIA/Owner. They have to keep these works ready before start of substation work. Format handing over/taking over protocol shall be signed between turnkey contractor and the PIA from which zero date shall start for substation package.