

NAME OF PROJECT: Procurement of 220/33kV AIS S/S & 220 kV DC Transmission Lines at Deogarh & Lephripada and 132/33kV AIS S/S & 132kV DC Lines at Lakhanpur & Thuapalli in Odisha State of India under Package-8

PRE-BID MEETING HELD ON 07.06.2016: REPLY TO PRE-BID QUERIES RECEIVED FROM FIRMS IN VARIOUS DATES

NAME OF CLIENT:- ODISHA POWER TRANSMISSION CORPORATION LIMITED, Bhubaneswar

SI No.	Volume / Section	Clause No / Drawing number	Bidder's Query	OPTCL's Reply
I	COMMERCIAL			
1	Vol-I, Section-III - Evaluation and Qualification Criteria	Clause 2.a - Specific experience	<p>As per the referred clause, "The bidder, as a Principal EPC/Turnkey Contractor (not as a Sub-Contractor) shall demonstrate that it has executed the Contracts of Similar or higher Size and Nature of works (132/33kV Grid AIS Substation (2X20 MVA) and 132 kV S/C line in D/C Tower) detailed for the package as under</p> <p>The Bidder shall demonstrate that it has successfully executed 132/33 kV or higher voltage class GRID Sub-Stations (AIS) (2X20 MVA) - 06 nos. and 132 kV or higher voltage class transmission line -70 kms (Route Length) on EPC Contract / Turnkey Contract basis for any Transmission Utility during Last Five Financial Years preceding to the year from the date of NIT".</p> <p>In this regard, please confirm that</p> <p>a) Since, the present tender package scope includes supply of Power transformers, for meeting the qualification requirement of execution of Similar or higher size and nature of works means that Bidder should have executed 132/ 33 kV or higher voltage class Substations (AIS) including Supply of minimum 2 x 20 MVA capacity transformers in each of the 06 substations.</p> <p>b) There is no limitation for minimum number of bays in each substation/ location.</p> <p>c) Please confirm that multiple locations under single contract will also be considered as individual substations for Qualification purpose.</p>	<p>(a) .The bidder shall demonstrate that it has successfully executed erection, commissioning & testing including civil foundation works for minimum 2 x 20 MVA capacity transformers 132/ 33 kV or higher voltage class Substations (AIS) under the the turnkey contracts for the said substation. Supply of transformer for the project is not mandatory</p> <p>(b) There is no limitation for number of bays in each susstation contract. The work for bay extension within an existing substation shall not be considered.</p> <p>c) Multiple Projects (Substations & transmission lines) in different locations under a single contract will be considered as different projects but sub-station along with associated transmission line will be considered as a single project.</p>
2	Vol-I, Section-VII, General conditions	Clause number 14, Taxes & Duties	We understand that 1% BOCW cess shall be applicable only on the Civil & Installation works. Please confirm.	1% BOCW cess shall be applicable on both material and civil & installation work.
3	Vol-I, Section-VII, General conditions	Clause number 14, Taxes & Duties	We understand that Octroi & Entry tax shall be paid by the Employer else will be reimbursed to Contractor against documentary evidence of payment by the Contractor Please confirm.	The price bid is inclusive of all taxes, duties and other payment. (Ref. Section-1-18(5)(d)) of the bid document.
4	Vol-I, Section-VII, General conditions & Bid Price Schedules	Clause number 14, Taxes & Duties	As per the referred clause, statutory variations in the taxes shall be adjusted during execution of the project. However, as per the bid price schedule, there is no provision available to indicate the applicable duties & taxes separately so that equitable adjustment in the contract price can be done during execution. Kindly confirm & amend the price schedules accordingly	The price of the Plant shall be quoted on an EXW Incoterm basis (such as "ex-works," "ex-factory," "ex-warehouse" or "off-the-shelf," as applicable), and includes sales tax and all other taxes payable in the Employer's country on the Plant, as of twenty-eight (28) days prior to the deadline for submission of Bids, if the Contract is awarded to the Bidder. (Ref. Section-1-18(5)(b)) of the bid document.
5	Vol-I, Section-VII, General conditions	Clause number 14.3, Taxes & Duties	As per the referred clause, "If any tax exemptions, reductions, allowances or privileges may be available to the Contractor in the country where the Site is located, the Employer shall use its best endeavours to enable the Contractor to benefit from any such tax savings to the maximum allowable extent." In this regard, being JICA funded project, please confirm the availability of excise/ custom duty exemption benefits. Further, please confirm that all the requisite documents for availing these benefits will be issued to the successful contractor	There is no excise/ custom duty exemption benefits unnder this package.
6	Vol-I, Section-VII, General conditions	Clause number 14, Taxes & Duties	We request you to please confirm that requisite concessional sales tax declaration forms (Form C) will be issued for the successful Bidder for Direct transaction s & Brought item transaction.	Yes, OPTCL will provide the "C" Form.

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18/9/16

Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	OPTCL's Reply
7	Vol-I, Section-III - Evaluation and Qualification Criteria	Clause 1.2.1 - vii - Quantifiable Deviations and Omissions	<p>As per the referred clause, "The total evaluated prices (Total of the Supply (CIP/EXW) plus Installation & other services including all taxes and duties and all other associated cost and total cost of Mandatory Spares) of all the Bidders, Package wise, shall be compared to determine the lowest evaluated price."</p> <p>We understand that, all the applicable Taxes & Duties for both Bought out items & Direct transaction will be considered for evaluation process. Please confirm</p>	The evaluation method is as specified in Section III, Evaluation and Qualification Criteria.
8	Vol-I, Section-III - Evaluation and Qualification Criteria	Clause 1.2.1 - ii (a) - Quantifiable Deviations and Omissions	<p>As per the referred clause, "ii. The cost of all quantifiable nonmaterial nonconformities or omissions (minor omissions or missing items) shall be evaluated as follows: (a) To this effect, the Bid Price shall be adjusted for comparison purposes only, to reflect the price of missing or non-conforming item or component, by taking the price equal to highest unit rate quoted for the same item(s) by other bidders. However, if there is only one bid, the rate of that/those missing item(s) as estimated by the employer would be taken and Bid Price shall be adjusted for evaluation and comparison purposes only. In case of award of contract, the successful bidder would be required to supply missing item(s) free of cost and tax liability will be borne by the successful bidder".</p> <p>In this regard, since the complete scope has to be quoted by the Bidders on single responsibility basis, we request you not to add any amount on account of any missing item/ in case any items are not loaded as it may change the competitive position of a bidder due to highest price loading for a missing item. We request to modify the clause as below: "Any material/ works not specifically priced by a bidder in BPS, shall be deemed to be included in the price of other material/ works." Please confirm your acceptance & amend the document accordingly</p>	As per the Bid document
9	Vol-I, Section-III - Evaluation and Qualification Criteria	Clause 1.2.1 - v - Quantifiable Deviations and Omissions	<p>As per the referred clause, "Loss capitalization of the Transformers shall not be considered for evaluation."</p> <p>Since the loss capitalization of transformers are not considered for evaluation of bids, this enables the bidders in proposing low efficiency (Higher loss) Transformers with lower grade raw materials without being penalised for impacting the long run operational cost to OPTCL. Hence, we request you to please consider loss capitalization of Transformers to provide equal platform for bidders proposing relatively better efficiency. Kindly confirm & also provide us the capitalization amount applicable for each kilo-watt of relative loss difference.</p>	<p>The Power transformer shall be supplied conforming to the Technical specification. TS says "Loss figure for the transformers should not exceed as detailed below :- <u>20MVA, 220/33KV Power Transformer</u> i) No load losses- 12.00 KW ii) Load (Copper) losses including Auxiliary losses- 65.00KW <u>20MVA, 132/33KV Power Transformer:</u> i) No load losses- 12.00 KW ii) Load (Copper) losses including Auxiliary losses- 65.00KW</p> <p>The transformer losses, guaranteed in the bid are to be supported by design calculations along with documentary evidences."</p>
10	Vol-I, Section-III - Evaluation and Qualification Criteria	Clause 1.2.2 (d) - Work, services, facilities, etc., to be provided by the Employer	<p>As per the clause (ii), "Drawings, GTP, Location Details and BOQ available with employer shall be provided for execution of work".</p> <p>However, we are not finding the Drawings, GTP formats in the provided documents. Request you to please provide the drawings for our design working. Also, we understand that, Bidder may submit the GTP in their standard formats. Please confirm</p>	Pl. refer Vol-III Part-II of the Bid document which is exclusively for GTP. Further, GTP of other items are also available in the Technical Specification Vol-III Part-I. The standard drawings available with OPTCL shall be provided after award of the contract to the successful bidder.
11	Vol-I, Section-III - Evaluation and Qualification Criteria Vol - I, Section-VI - General conditions	Clause 1.2.2 (d) - Work, services, facilities, etc., to be provided by the Employer Clause 10.2 - Employer's Responsibilities	<p>As per the clause (iii), "Employer will assist to secure the ROW, getting clearance from Railway, NHAI, Forest, Water and other Statutory/Govt. body".</p> <p>Also, as per the clause 10.2 of General conditions, "The Employer shall be responsible for acquiring and providing legal and physical possession of the Site and access thereto, and for providing possession of and access to all other areas reasonably required for the proper execution of the Contract, including all requisite rights of way,"</p> <p>In this regard, we understand that, overall responsibility for acquiring the clearances/ approvals including ROW shall rest with OPTCL. Please confirm</p>	<p>The Employer shall provide encumbrance free project site for construction of the sub-station to the executing agency.</p> <p>Overall responsibility for acquiring the clearances/ approvals including ROW is under the scope of the turnkey/EPC contractor.</p> <p>OPTCL will only assist in getting clearances including solving critical ROW problems.</p>

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Sl No.	Volume/Section	Clause No/Drawing number	Bidder's Query	OPTCL's Reply
12	Vol-I, Section-IX - Contract Forms	Appendix 2. Price Adjustment	As per the referred clause, we understand that, Price Adjustment (Either up or down) is applicable for all the supply items for substation & transmission line works, Installation, Civil works as per IEEMA or equivalent indices. Please confirm	Pl. refer Appendix2 of the Bid Document. Price Adjustment: The price is adjustable and the adjustment shall be carried out according to the adjustment formulae indicated in the bid documents.
13	Vol-I, Section-IX - Contract Forms	Appendix 1. Terms and Procedures of Payment	As per the clause 1 (a), "First instalment of advance payment (5%) shall be made on Signing of the Contract agreement & Evidence (Rental agreement with land lord) of establishment of Site Office. AND Second instalment of advance payment (5%) shall be made on Placement of Orders for the major equipment defined in the Employers Requirement." Since the order placement of major equipments takes considerable time including the related approval process, we request you to amend the payment terms as "Total advance payment (10%) shall be made on Signing of the Contract agreement & Evidence (Rental agreement with land lord) of establishment of Site". Such amendment in the payment terms will be helpful in boosting up the initial activities of the project.	As per bid document
14	Vol-I, Section-IX - Contract Forms	Appendix 1. Terms and Procedures of Payment Appendix 6 - Scope of works & Supply by the Employer	As per the clause 1. a (ii), First instalment of the advance of 5 % shall be paid against evidence (Rental agreement with land lord) of establishment of site office. However, we understand that the contractor can set up their site office within the substation premises to speed up the execution activities, which is the normal industrial practice being followed. Please confirm. Further, the necessity of "Rental agreement with land lord" does not arise in such condition. Hence we request you to delete such requirement for availing the advance amount.	As per bid document
15	Vol-I, Section-IX - Contract Forms	Appendix 4. Time Schedule	The referred appendix indicates the detailed time for Completion and commissioning of Facilities by 24 (Twenty Four) months for the package from effective date. We understand that, Bidder's may propose alternate time duration for each activity i.e. for few of the items, the duration may increase & for few of the items duration may decrease, however complying to the overall completion period of 24 months from the effective date. Since the action plan may vary from Bidder to Bidder for completion of individual activity, the above confirmation will be helpful in effective planning of activities for overall completion of facilities within the overall completion period. Please confirm Also, the proposed completion period for Foundation works for transmission line towers in not indicated in the Appendix 4. Request you to kindly indicate.	Pl. refer (i) Section II. Bid Data Sheet: ITB-13.2: Alternatives to the Time Schedule for the completion of the whole of the works are not permitted. (ii) Section III. Evaluation and Qualification Criteria - Without Prequalification: Cl.1.2.2-Other Factors- (a) Time Schedule- iv. Bids mentioning Time Schedule other than mentioned above will be considered non responsive.
16	Vol-I, Section-IX - Contract Forms	Appendix 4. Time Schedule	We request you to kindly confirm that, Substation wise taking over will be applicable. That is, on commissioning of a substation, taking over certificate will be issued to the particular substation. Accordingly, release of retention money/ performance parameters/ DLP and Liquidated damages for delay if any, will be separate for each substation. Kindly confirm	Taking over certificate will be issued to the particular substation only after successful commissioning of the substation and associated transmission line and completion of all works as per the contract .
17	Vol-I, Section-IX - Contract Forms	Appendix 5. List of Major Items of Plant and Installation Services and List of Approved Subcontractors	The referred appendix indicates the List of Approved Subcontractors. We understand that, Bidders may propose to offer the substation or transmission line equipments/ materials from any other Manufacturer also, in case such manufacturer is meeting the Qualification requirements defined in the bidding documents. Please confirm	As stated in GC Sub-Clause 19.1 of Bid Document.
18	Vol-I, Section-IV - Bidding Forms	Page number 17 - Schedule No. 5. Provisional Sums	As per the referred schedule, "One-half of the Employer's cost estimate of the Dispute Board shall be included in the Provisional Sums". However, we would like to inform you that, we are not familiar with the "Provisional sum" schedule. Kindly confirm the applicability of this schedule for the present tender package.	"Provisional sum" is not applicable for this package.



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19	Volume - III - E26, Transmission line & Bid Price Schedules	Clause 4.1 - General technical requirements Schedule 2 - Quantity for construction of transmission line	As per the clause 4.1 of section E26, "The employer is looking for a structurally safe design of transmission line towers to be installed on EHV lines keeping the loadings and line parameters detailed in this specification and in compliance with IS: 802 (Part-1/Sec-1)-1995, IS: 802(Part-1/Sec-2)-1992 The Bidder may offer economical designs with rational sections or offer towers of recent design, proven in service and accepted by other reputed Central and State Sector Utilities and by OPTCL (Previously OSEB) confirming to this technical specification" However, as per the bid price schedules, nominal unit weight of the tower structures is mentioned. Hence we understand that, design of transmission line towers is not in Bidders scope. Kindly confirm & also provide us the drawings for each type of tower.	Available standard drawings would be provided by OPTCL in case of award of the contract.
20	Bid Price Schedules	Schedule 2 - Quantity for construction of transmission line	As per the price schedule, quantity of "OPGW hardware set like suspension Assembly, Tension Assembly (Dead end assembly, Pass through assembly), Vibration Damper, Down Lead Clamp Assemblies for 24/48 Fibre(DWSM) OPGW, Joint Box" is not mentioned. We request you to provide the quantity of each hardware item for OPGW under scope of supply for all the four transmission lines.	Separate item for "OPGW hardware set like suspension Assembly, Tension Assembly (Dead end assembly, Pass through assembly), Vibration Damper, Down Lead Clamp Assemblies for 24/48 Fibre(DWSM) OPGW, Joint Box" is provided in the Amended BOQ. The bidder is to estimate the quantity of each hardware item as per the scope of the work.
21	Bid Price Schedules	Schedule 2 - Quantity for Construction of 220 KV LLO line from Rengali-Tarkera line to Deogarh	As per the item number 5.2 of the bid price schedule, OPGW fibre Optic Cable is in the supply scope. However, item number 6 calls for "EARTH CONDUCTOR ACCESSORIES". We request you to please confirm the application of these accessories since supply of Earth conductor is not applicable. Also, kindly provide the quantity of OPGW hardware items.	As EARTH CONDUCTOR is not in the scope of supply, item number 6 calls for "EARTH CONDUCTOR ACCESSORIES" shall be considered as deleted and shall not be considered for evaluation.
II	ELECTRICAL			
Common for new substations				
22	Inputs required	General	Please furnish the following inputs pertaining to all 4 substations in the scope of work: a) Single Line Diagram b) Overall GA drawing indicating the location of control building and present scope c) Plan, Section & Layout drawings for 220kV & 132kV switchyards d) Control Room Building layout e) Cable Trench Section details	a) Single Line Diagram is attached to the bid document. b) Overall GA drawing is to be provided by the bidder as per site condition c) Under the scope of the bidder d) Under the scope of the bidder e) Cable trench section details are available in the technical specification.
23	Inputs required	Conductor details	Please furnish the following details for 220kV & 132kV switchyard, which need to be followed by the bidders for this package: a) Main Bus conductor b) Equipment Bus/ Interconnection conductor c) Strung Bus conductor	Pl. refer Technical specification Vol-III Part-I of the bid document and also BOQ (Schedule 1A & 2A SS) Busbar & Circuit Materials the conductor to be supplied is clearly mentioned to be ACSR Moose. a) Main Buses shall be Twin Moose ACSR conductor and Reserve / Transfer Bus shall be single Moose ACSR conductor. b) Interconnections to equipment shall be made from aluminium tubes (220KV side) or suitable flexible ACSR conductors (as per BOQ), through clamps and connectors only. Jumpers shall be made from flexible ACSR c) Strung Bus conductor shall be Moose ACSR conductor.
24	Volume - III - Technical specifications	Type of Busbar scheme	As per the clause E21, CI 7.11, we understand that 220 kV switchyard shall be of Double Main busbar scheme and 132 kV switchyard shall be of Single Main and Transfer scheme. Please confirm.	YES
25	Bid Price Schedule	Schedule 2 of Lakhanpur & Thuapalli	As per the item number 1 (132 kV Current Transformer) & item number 2 (132 kV Isolator), short circuit fault level is 31.5kA. However in item number 7, 132 kV circuit breaker rating is indicated as 40 kA. Kindly confirm the short circuit fault level applicable for 132 kV system.	The short circuit fault level applicable for 132 kV system shall be designed for 40 KA .
26	Inputs required	Placing of Control & Relay panel	We presume that all the control and relay panels are placed inside the control room building and not in separate AC Kiosks. Please confirm.	All the control and relay panels are to be placed inside the control room building.
27	Volume - III - Technical specifications	Section E 10	The power cable and control cable sizes given in the technical specification Volume III, E10, CI 10.8 do not match with cable sizes indicated in the bid price schedules. Please confirm the exact sizes to be used and their respective application.	Pl quote as per Amended BOQ. Further cable scheduling is in the executing agency's scope which will be approved by OPTCL.

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28	Volume - III - Technical specifications	Section E 19	As per the clause E19, CI 10.1 (1 & 2), the ACDB incomer shall be rated for 250 A MCCB. However as per the price schedule, rating is indicated as 400A MCCB. Please confirm the requirement.	Pl quote as per Amended BOQ.
29	Volume - III - Technical specifications	Section E 19	Kindly indicate the feeder configuration of the 220V DC Emergency Distribution Board as the same is not specified in the technical specification Volume III, E19	Same is to be proposed by the executing agency and to be decided during detailed engineering prior to execution of work.
30	Volume - III - Technical specifications	Section E 19	We understand that LT boards shall be adequately sized for present scope of works only. Kindly confirm our understanding.	As per Technical specification.
31	Volume - III - Technical specifications	Scope - Bus bar protection	Please clarify the scope of bus bar protection. We presume central unit shall be designed for present scope of works only. Kindly confirm our understanding.	Bus protection shall be distributed type conforming to the Technical specification.
32	Volume - III - Technical specifications	Scope - Indoor Lighting	We would like to inform you that, indoor lighting fixtures are not included in the bid price schedule. Kindly confirm whether these are in the present scope of works. If yes, kindly indicate the wattage of the fixtures (18W / 50W) to be used for indoor illumination.	Pl. refer Amended BOQ. Supply, installation and commissioning of indoor lighting system including fixtures are in the present scope of work and included in the bid price schedule. No. of LED Lighting fixtures are to be calculated based on the illumination design considering the required lux level indicated in the technical spec & fixing of the same rigidly on the suitable height either ceiling & wall as required.
33	Volume - III - Technical specifications	Scope - DSLP	We presume that, Lightning protection shall be designed using spikes mounted on towers & lightning mast is not envisaged. Please confirm.	YES. As per Amended BOQ and Technical specification.
Extension of 132/33kV Brajrajnagar Substation				
34	Volume - III - Technical specifications	Bus bar protection	As per the price schedule, augmentation of bus bar panel is not in the bidder's scope of work. We presume that the central unit is capable of accommodating the bays under present scope of work also & we do not envisage any modification work in the central unit. Please confirm our understanding	Pl. quote as per Amended BOQ. There is no Bus bar panel in 132KV Brajrajnagar sub-station. The bus protection system is to be matched with existing protection system.
35	Volume - III - Technical specifications	Scope of works	We presume that the following scopes are not covered in the present scope of works: 1) Main Bus Extension works 2) Illumination of control room building 3) Indoor cable trench 3) Battery & Battery Charger 4) LT Switchgear Kindly confirm. If required, we request to include separate line items in BPS	Bidders are requested to make a site visit before submission of their bids. Separate line items in case of bay extension work at 132KV Brajrajnagar sub-station are available in the BOQ.
36	Volume - III - Technical specifications	Inputs required	Please furnish the following existing drawings pertaining to Brajrajnagar station, to enable us in understanding the scope of works under present tender package: a) Project Single Line Diagram b) Overall GA drawing indicating the location of control building and present scope c) Plan & section drawings for 220kV & 132kV switchyards d) Lighting layout indicating location of outdoor lighting panels	Bidders are requested to make a site visit before submission of their bids and to quote as per the Amended BOQ. Standard/ existing Drawings available with OPTCL shall be provided in case of award of the contract.
III Civil & Structural				
37	General	--	We request you to please confirm whether the land for the following substations has been identified. 1. 220/33kV Deogarh SS 2. 220/33kV Lephripada 3. 132/33kV Lakhanpur 4. 132/33kV Thuapalli. Also, we request you to provide the area of the land available for proposed scope of works along with the global co-ordinates. Also furnish the contour layout of the substation area.	All the lands for the specified projects have been identified. Other details would be provided after award of the contract.
38	General	--	Please furnish the following details for Brajrajnagar substation. 1. Soil investigation report of existing Substation 2. Contour layout with Proposed FGL 3. Existing Cable Trench layout. 4. Existing Drain layout. 5. Existing Foundation Layout. In order to estimate the approx. quantum of civil works.	Bidders are requested to make a site visit before submission of their bids and to quote the items as per the Amended BOQ.


 29/7/16

Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	OPTCL's Reply
39	Tender specification	--	Please provide following outdoor structure/ foundation drawings a . Towers Structure drawing. b . Equipment Structure drawing. c . Tower foundation drawing d . Equipment structure foundation drawings. e . Main and Auxiliary structures & Foundation drawing. In order to estimate the quantum of civil works	All the foundation drawings are to be designed and submitted by the executing agency after detailed soil investigation of the project sites for necessary approval. Standard structural Drawings available with OPTCL shall be provided in case of award of the contract.
40	Tender specification	--	Please provide following building standard drawings a . Control Room Building b . 'D' Type and 'E' type Quarters building c . Security Shed d . Pump house and store shed building. e . Vehicle Parking shed. In order to estimate the quantum of civil works.	All dimensions of the buildings have been provided in the BOQ/ technical specifications which may please be referred. The drawings are to be designed and submitted by the executing agency confirming to the BOQ and Technical specification for necessary approval.
41	Tender specification	--	Please provide following outdoor civil drawings 1. Switchyard Road. 2. Switchyard Drainage details along with Crossings. 3. Cable trench and Cable trench crossings. 4. Switchyard fencing & Pale fencing. 5. Boundary Wall 6. Rain water harvesting. 7. Switchyard gate. 8. Firewall In order to estimate the quantum of civil works.	All dimensions of the civil structures have been provided in the BOQ/technical specifications which may please be referred. The drawings are to be designed and submitted by the executing agency confirming to the Amended BOQ and Technical specification for necessary approval.
42	Volume II , BPS, Schedule - 4; Volume III, Technical Specification, Civil Works, clause number 7.2	Deogarh & Lephripada SS - Serial number 2 Lakhanpur & Thuapalli SS - Serial number - 7	In line with the referred BPS item, we understand that, filling has to be done for the entire plot area. In this regard, we request you to confirm the plot boundary and also confirm whether the entire plot needs to be graded or only the switchyard area under the present bays is to be levelled to the FGL. Also please furnish the contour drawings for all the 4 Substations with the proposed FGL.	The contour survey is in scope of the executing agency. Pl quote as per the Amended BOQ.
43	Volume II , BPS, Schedule - 4, Serial number 23 & Serial number 17	Deogarh SS, Lephripada SS	As per the referred item number 23 of BPS, the pump house shall be connected to the main road of the switchyard with an approach road. Please confirm whether the approach road for the pump house will be paid as per item number 23 of BPS i.e.. along with Pump House or shall be paid item number 17 of BPS i.e.. along with road works.	Included in item No.17 of the BPS
44	Volume II , BPS, Schedule - 4, Serial number 25 & Serial number 9	Lakhanpur SS, Thuapalli SS	As per the referred item number 25 of BPS, the pump house shall be connected to the main road of the switchyard with an approach road. Please confirm whether the approach road for the pump house will be paid as per item number 25 or item number 9 of BPS.	Included in item No.9 of the BPS
45	Volume II , BPS, Schedule - 4, serial number 4 & serial number 20	Deogarh SS, Lephripada SS	As per the referred item of BPS, we understand that the boundary wall shall be provided along the perimeter of the plot area and the fencing shall be provided around the switchyard area. Please confirm.	YES
46	Volume II , BPS, Schedule - 4, Serial number 5 & Serial number 17	Lakhanpur SS, Thuapalli SS	As per the referred item of BPS, we understand that the boundary wall shall be provided along the perimeter of the plot area and the fencing shall be provided around the switchyard area. Please confirm our understanding.	YES
47	Volume II, BPS, Schedule - 4; Volume III, Technical Specification, Civil Works, clause number 1 & 11.1	Deogarh & Lephripada SS, Serial number - 9; Lakhanpur & Thuapalli SS, Serial number 11	As per the referred item of BPS and clause number 1.1 of Civil works, fire fighting system is not covered under present scope of work. However in referred clause of civil works, it is mentioned "A pylon support system shall be provided for supporting the fire fighting system by the contractor". Please confirm whether the civil works for Firefighting system is under present scope of work.	Pl quote as per amended BOQ

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48	Volume III, Technical Specification	Civil Works, clause number 11.1 and 19	As per the clause number 19 of Civil works, it is mentioned that "The contractor shall be overall responsible for the supply of water within the switchyard for fire fighting, drinking purposes and other miscellaneous purposes". Also in clause number 11.1 of civil works, it is mentioned "A pylon support system shall be provided for supporting the fire fighting system by the contractor". From the referred clauses, we understand that the fire fighting system is by HVWS. Please confirm. Also, please confirm whether Fire Fighting Pump House and Fire Water Reservoir is under the present scope of work.	PI quote as per Amended BOQ
49	Volume II, BPS, Schedule - 4,	Deogarh & Lephripada SS, serial number - 26; Lakhanpur & Thuapalli SS, serial number 14;	As per the referred item of the BPS, we understand that the supply of water for the plantation is under the present scope of work. Please confirm.	Yes. PI quote as per Amended BOQ
50	Volume II, BPS, Schedule - 4,	Deogarh & Lephripada SS, serial number - 28; Lakhanpur & Thuapalli SS, serial number 16	As per the referred items of the BPS, we understand that the retaining wall is under the present scope of work in Lakhanpur and Thuapalli SS and not in scope in Deogarh and Lephripada SS. We presume that if retaining of soil is to be done in Deogarh and Lephripada SS, then the same shall be paid under the Toe wall item number 28 of BPS. Please confirm.	Retaining of soil shall be as per site requirement (Retaining wall/ sotone pitching & toe wall) and approved drawing. The said item shall be paid under the item available in the BPS. PI quote as per Amended BOQ.
51	Volume III, Technical Specification	Civil works, clause number 7	As per the referred clause, it is mentioned that "This final surface course shall be applied in all areas exclusive of roadways and shall extend beyond the fence area as indicated in the drawing". Kindly confirm whether only the second course (Final course) of gravel filling is to be extended or both the layers of gravel filling is to be extended beyond the fencing. Also please provide the distance upto which the gravel filling has to be extended beyond the fence.	PI quote as per Amended BOQ
52	General	Deogarh SS, Lephripada SS, Lakhanpur SS, Thuapalli SS	As per the BPS and technical specification, we understand that Switchyard Panel room is not in the scope of the contractor. Please confirm.	PI quote as per Amended BOQ
53	Volume II, BPS, Schedule -4, serial number 10	Deogarh SS, Lephripada SS	As per the referred clause we understand that the various oil capacity of transformer mentioned in the clause is indicative and the capacity of the transformer shall be taken corresponding to the transformer supplied mentioned in cl. 9.1.1 Please confirm.	The figure mentioned in Sl.no. 9.1.1 refers to total approx. Wt. of the transformer for design of the foundation of the transformer. Where as the fig mentioned in Sl. No. 10 refers to design of OIL Sump Pit. The above are to be designed and constructed considering the highest capacity (40MVA) of the power transformer.

P. K. S.
27/11/16

Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	OPTCL's Reply
54	Volume II, BPS, Schedule - 4, serial number 9.1.1 and 10	Deogarh SS, Lephripada SS	As per the referred clauses, the oil capacity of transformer mentioned in serial number b) of 10 corresponds to 20/40MVA 132/33kV and that of serial number c) of 10, corresponds to 40MVA, 220/33kV. However, the transformer oil capacity mentioned in cl.9.1.1 is 20/40MVA, 220/33kV. Please confirm which oil capacity of the transformer is to be considered.	The figure mentioned in Sl.no. 9.1.1 refers to total approx. Wt. of the transformer for design of the foundation of the transformer. Where as the fig mentioned in Sl. No. 10 refers to design of OIL Sump Pit. The above are to be designed and constructed considering the highest capacity (40MVA) of the power transformer.
55	Volume II, BPS, Schedule -1	Deogarh SS - serial number 19 ; Lephripada SS - serial number 19;	As per the referred clause we understand that for tower structures, if there is an increase from the nominal weight of tower structure indicated in price schedule against each structure, the increased structure weight shall also be paid in the referred clause. Please confirm.	The unit price is in MT. Any variation to the specified quantity will be adjusted accordingly.
56	Volume II, BPS, Schedule -1	Lakhanpur SS - serial number 15 Thuapalli SS - serial number 15	As per the referred clause we understand that for tower structures, if there is an increase from the nominal weight of tower and equipment support structure indicated in price schedule against each structure, the increased structure weight shall also be paid in the referred clause. Please confirm.	The unit for quantity and price is in MT. Any variation to the specified quantity will be adjusted accordingly.
57	Volume II, BPS, Schedule - 4	Deogarh Lephripada SS - serial number 7 Lakhanpur & Thuapalli SS - serial number 1.18	We presume that piling is not envisaged in the proposed substations. Kindly confirm. If it is envisaged, then the same shall be paid under the referred items of the BPS. Please confirm	Pl quote as per Amended BOQ.
58	Volume II, BPS, Schedule - 4; Volume III, Technical Specification, Civil Works, clause number 1 & 11.2	Deogarh & Lephripada SS - serial number 10 Lakhanpur & Thuapalli SS - serial number 11.2	Please confirm whether the common oil collection pit for the transformer shall be kept fully underground or it shall be projected above ground.	AS per Technical specification.
IV	MECHANICAL			
59	Volume - III - Technical specifications	E29- FIRE PROTECTION SYSTEM-	Kindly confirm the type of FDA system (Whether Conventional or addressable) to be considered.	As per Amended BOQ and technical specification.
60	Volume - III - Technical specifications	E22-AIR CONDITIONER-General	Please confirm the type of AC units to be used for switchyard panels rooms (If any) and include the same in BPS.	As per Amended BOQ and technical specification.
61	Volume - III - Technical specifications	E22-AIR CONDITIONER-General	Kindly confirm the requirement of forced ventilation system in electrical panel rooms (ACDB, battery room). If required please include the same in BPS.	In the scope of the bidder as per the technical specification.
I	COMMERCIAL			
1	Vol-I, Section-IX - Contract Forms	Appendix 4. Time Schedule	We understand that, Mobilization schedule & construction schedule have to be submitted by the Bidders as per Bidding forms (Page BF-25 & BF-26), separately for Substation works & Transmission line works. But, as per Appendix 4 - Time schedule, though the line needs to be charged by 17.5 months & handed over by 18 Months from the effective starting date, whereas the overall completion period is 24 months. Hence, we request you to remove the milestone requirements subject to the condition that, overall completion period of 24 months is met by the successful bidder. Also, please confirm that Mobilization schedule & Construction schedule can be prepared by the Bidders keeping in view of the overall completion period of 24 months.	The bidder may propose different time schedule for each activity. However the over all completion period will be 24 months, with due approval from OPTCL.
2	Vol-III, Part-II	GTP Formats	We have received GTP formats for various equipments along with the hardcopy of tender documents. In this regard, we request you to accept GTPs in Manufacturer's standard formats & type test reports to the extent made available by Manufacturers during tender stage. The exact technical particulars & Type test reports for offered equipment/ material will be submitted during execution of the project. Please confirm	PL submit the GTP as per the format enclosed and type test reports to the extent made available by Manufacturers during tender stage. The exact technical particulars & Type test reports for offered equipment/ material will be submitted during execution of the project.

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Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	OPTCL's Reply
3	Vol-III - Technical specifications - 20 MVA 132 kV - Power Transformer Vol-III - Technical specifications - 20 MVA 220 kV - Power Transformer	Annexures - I to Annexure - IX Page number 89 of 124 to 124 of 124 Annexures - I to Annexure - IX Page number 72 of 96 to 96 of 96	As per the referred clause, for the power transformers, various documents like "Annexure-I: Schedule of quantity & Delivery, Annexure-II: Maximum flux density & Core weight calculation, Annexure-III: Details of loss calculation, Annexure-IV: Guaranteed Technical Particulars, Annexure-V: Additional schedule of information, Annexure-VI: Check-List towards type test reports, Annexure-VII: Calibration status of testing equipments & Instruments/ meters, Annexure-VIII: List for delivery schedule & Annexure-IX: Abstract of Terms & Conditions", have to be filled up in complete shape by the bidders, failing which the bids are liable for rejection. We understand that, above documents as per annexures are being asked by OPTCL while inviting tenders for procurement of individual equipment directly from manufacturers. However, in this regard we would like to highlight that, present tender being turnkey package for construction of overall substation & transmission lines involving numerous equipments & multiple manufacturers for each equipment/ items, it is very difficult for an EPC contractors to collect all of the documents during tendering stage apart from its own qualification documents. Hence we request you to accept our proposal of submission of only the Manufacturer's standard GTPs along with the Manufacturer's authorization letters during tendering stage & remaining documents shall be submitted during execution stage for all the equipments as applicable, as per tender documents. Undertaking to this effect can be submitted from our end during tendering stage. Please confirm your acceptance	Acceptable
II ELECTRICAL				
220/33kV Deogarh SS & 220/33kV Lephripada SS				
4	BPS - PART-I - Schedule 2A	Deogarh & Lephripada SS SL.NO: 2.1 & 220/33kV Grid Substation SLD	As per BPS, S/I Without Earth Switch for 220kV are 13 numbers. But as per 220/33kV Grid Substation SLD, 14 numbers of S/I without earth switch are required. Please clarify.	SLD enclosed is indicative only. Final quantity will be as per the approved SLD. Pl. quote as per the Amended BOQ.
5	BPS - PART-I - Schedule 2A	Deogarh & Lephripada SS, SL.NO: 10.1 & 220/33kV Grid Substation SLD	As per BPS, S/I Without Earth Switch for 33kV are 9 numbers. But as per 220/33kV Grid Substation SLD, 10 numbers of S/I without earth switch are required. Please clarify.	SLD enclosed is indicative only. Final quantity will be as per the approved SLD. Pl. quote as per the Amended BOQ.
6	BPS - PART-I - Schedule 2A	Deogarh & Lephripada SS, SL.NO: 11 & 220/33kV Grid Substation SLD	As per BPS, 30kV, Metal Oxide Surge Arrestor are 27 numbers. But as per 220/33kV Grid Substation SLD, 21 numbers (15numbers for 33KV Feeders & 6 numbers for Transformer Bays) of Surge Arrestor are required. Please clarify the requirement	SLD enclosed is indicative only. Final quantity will be as per the approved SLD. Pl. quote as per the Amended BOQ.
7	BPS - PART-I - Schedule 2A	Deogarh & Lephripada SS, SL.NO: 22.1 & 220/33kV Grid Substation SLD	As per BPS & specification 2 numbers of 220/33kV, 20 MVA Power Transformers need to be provided. But as per 220/33kV Grid Substation SLD, the rating of Power Transformer is 40 MVA. Pls Clarify.	SLD enclosed is indicative only. As per BPS & specification 2 numbers of 220/33kV, 20 MVA Power Transformers need to be provided. Pl. quote as per the Amended BOQ and Technical specification.
8	BPS - PART-I - Schedule 2A	Deogarh & Lephripada SS, SL.NO: 22.2 & 220/33kV Grid Substation SLD	As per BPS, 2 numbers of 33/0.415kV, 315 KVA Station Transformers need to be provided. But as per 220/33kV Grid Substation SLD, the rating of Station Transformer is 250kVA. Also, technical specifications are provided 250 kVA LT Transformer & not for 315 kVA. Pls Clarify & provide the technical specification for required rating of transformers	There is a typographical error in Schedule 1_SS & Schedule 2_SS. As per Technical specification and Schedule-S_SS, 2 numbers of 33/0.415kV, 250 KVA Station Transformers need to be provided for Deogarh & Lephripada SS.
132/33kV Lakhanpur SS & 132/33kV Thuapalli SS				
9	BPS - PART-I - Schedule 2A	Lakhanpur & Thuapalli SS: SL.NO: 2, 2.1 & 132/33kV Grid Substation SLD	As per BPS, for 132kV, S/I With Single Earth Switch are not indicated and 9 numbers of S/I without Earth Switch are indicated. But as per 132/33kV Grid Substation SLD, 2 numbers of S/I with Single earth switch are required. And S/I Without Earth Switch are 7 numbers. Please clarify.	2 numbers of S/I with Single earth switch are required. And S/I Without Earth Switch are 7 numbers. Pl. include and quote in the Amended BOQ.

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Sl No.	Volume / Section	Clause No/ Drawing number	Bidder's Query	OPTCL's Reply
10	BPS - PART-I - Schedule 2A	Lakhanpur & Thuapalli SS, SL.NO: 2, 3, 7 & 132/33kV Grid Substation SLD	We presume that, for 132kV, all the main equipments are considered only for present scope of work. For future bays only space provision is considered (i.e., unequipped future bays). Please confirm.	Provision of Unequipped bays, which can be used in future: 132 KV- 02 Nos & 33 KV- 02 Nos: Proposed bays shall be Unequipped but with required column foundations, supply & erection of structures with beam, site surfacing (metal spreading), earth mat laying, bus extension etc are to be considered. There shall be no equipment foundations for the unequipped bays.
11	BPS - PART-I - Schedule 2A	Lakhanpur & Thuapalli SS, SL.NO: 9.1 & 132/33kV Grid Substation SLD	As per BPS, S/I Without Earth Switch for 33kV are 9 numbers provided. But as per 132/33kV Grid Substation SLD, 10 numbers of S/I without earth switch are required. Please clarify.	Pl quote as per the Amended BOQ. Final quantity will be as per the approved SLD and lay out drg.
12	BPS - PART-I - Schedule 2A	Lakhanpur & Thuapalli SS, SL.NO: 10 & 132/33kV Grid Substation SLD	As per BPS, 30kV, Metal Oxide Surge Arrestor are 27 numbers provided. But as per 132/33kV Grid Substation SLD, 21 numbers (15 numbers for 33KV Feeders & 6 numbers for Transformer Bays) of Surge Arrestor are required. Please clarify.	Pl quote as per the Amended BOQ. Final quantity will be as per the approved SLD and lay out drg.
Transmission line works				
13	BPS, Lakhanpur - Transmission line scope	Schedule number 2 - Item number 5 (Supply of OPGW fibre Optic cable for speech, data & protection) Schedule number 4 - Item number 1 (PART B), item	As per the referred clause of BPS (Schedule 2), the supply of OPGW is for 24 km, whereas the quantity of stringing/ survey as per schedule 4 is 19.218 km. Kindly confirm which of the quantity shall prevail & also, kindly amend the price schedule accordingly.	Pl quote as per the Amended BOQ.
14	132 kV D/C line from Brajrajnagar to Lakhanpur & 220 kV Line from Rengali - Tarkera line to Deogarh	Serial number 3 - Supply of Power conductors	As per the referred item, for 132 kV Transmission lines, the specified provision for sag & wastage is 1.5 % for ACSR Panther. However, the % of sag & wastage provision is not mentioned in tender documents for 220 kV Transmission lines for ACSR Zebra conductor. Please confirm the requirement	Provision for sag & wastage is 1.5% for 220kV ACSR Zebra.
15	Bid Price Schedule (BPS) - Common for all the transmission lines	General	As per BPS, Mandatory spares for Transmission line works are not mentioned. Inline with the same, we understand that, no equipment/ material needs to be provided as part of Mandatory spare for Transmission line scope. Please confirm	Pl quote as per the Amended BOQ.
III Civil & Structural				
16	Volume - III - E26, Transmission line, Page 54 Volume - III - E26, Transmission line & Bid Price Schedules	Clause number 1.1.1 Clause 4.1 - General technical requirements Schedule 2 - Quantity for construction of transmission line	As per the clause, drawings for Towers & Foundations has to be supplied by the contractor & As per the clause 4.1 of section E26, "The employer is looking for a structurally safe design of transmission line towers to be installed on EHV lines keeping the loadings and line parameters detailed in this specification and in compliance with IS: 802 (Part-1/Sec-1)-1995, IS: 802(Part-1/Sec-2)-1992 The Bidder may offer economical designs with rational sections or offer towers of recent design, proven in service and accepted by other reputed Central and State Sector Utilities and by OPTCL (Previously OSEB) confirming to this technical specification" However, as per the bid price schedules, nominal unit weight of the tower structures is mentioned per tower & Foundation quantities are mentioned for overall scope of specific line. Hence we understand that, design of transmission line towers & Foundation is not in Bidders scope. Kindly confirm & also provide us the drawings for each type of tower & Foundations.	As per the bid price schedules, nominal unit weight of the tower structures is mentioned per tower on the basis of available type of towers with OPTCL. In case the bidder prefers to adopt the said type of towers available with OPTCL, the drawings of transmission line towers & Foundation will be provided to the bidder in case of award of the contract.


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Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	OPTCL's Reply
1	Section-III - Clause 2.a - Specific experience	The Bidder shall demonstrate that it has successfully executed 132/33 kV or higher voltage class GRID Sub-Stations (AIS) (2X20 MVA) – 06 nos. and 132 kV or higher voltage class transmission line -70 kms (Route Length) on EPC Contract / Turnkey Contract basis for any Transmission Utility during Last Five Financial Years preceding to the year from the date of NIT". As per requirement of JV one member must meet Requirement (50%)	Meaning of requirement of 50% of one member to be clarified. 1. One member executed either 6 nos S/S or 70KM line. Pls clarify whether JV/ contortium will qualify.	One member must meet 50% of both 6 nos. of substation and 70 Kms. of transmission line as per the qualifying requirement.
2	Supply BoQ of			
	2x 20 MVA- 220/33KV substation at DEOGARH & associated 220KV LILO line from Rengali to tarkera.	In Schedule No. 1 Supply of Mandatory spares Parts- Sl. No.3, Sl. No.-4, Sl. No.-5 & Sl. No.-6	It may be 220 KV items in place of 132KV items	Pl. refer Amended BOQ uploaded in Website of OPTCL
		In Schedule No. 2 Supply of Mandatory spares Parts- Sl. No.3, Sl. No.-4, Sl. No.-5 & Sl. No.-6		
	2x 20 MVA- 220/33KV substation at LEPHRIPADA & associated 220KV LILO line from 220KV line from Budhipadar to Basundhara.	In Schedule No. 2 Supply of Mandatory spares Parts- Sl. No.3, Sl. No.-4, Sl. No.-5 & Sl. No.-6	It may be 220 KV items in place of 132KV items	Pl. refer Amended BOQ uploaded in Website of OPTCL

Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	OPTCL's Reply
1	Section V, Bidding Forms	Price Variation	Please mention the items on which PV is applicable.	Pl. refer Appendix2 of the Bid Document. Price Adjustment: The price is adjustable and the adjustment shall be carried out according to the adjustment formulae indicated in the bid documents.
2	Drawing		Please arrange to provide the Drawings Layout drawings Control room building D&E type quarters Store Shed Stone Pitching Retaing Wall	All dimensions of the civil structures have been provided in the BOQ/technical specifications which may please be referred. The drawings are to be designed and submitted by the executing agency confirming to the BOQ and Technical specification for necessary approval.
	Section IX Contract Forms	Approved Vendors	Please confirm that we can take the material from vendors which are not in the vendor list provided in the specification, as the mentioned vendor are very less against the individual items	As stated in GC Sub-Clause 19.1 of Bid Document.

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Sl No.	Volume / Section	Clause No / Drawing number	Bidder's Query	OPTCL's Reply
	Right of way of substation land		The Employer shall be responsible for acquiring and providing legal and physical possession of the site and access thereto, and for providing possession of and access to all other areas.	The Employer shall provide encumbrance free project site for construction of the sub-station to the executing agency. Overall responsibility for acquiring the clearances/ approvals including ROW is under the scope of the turnkey/EPC contractor. OPTCL will only assist in getting clearances including solving critical ROW problems.
	Hinderance free site		The Employer shall be responsible for providing the land for construction of substation hinderances free from tree, bushings, any kind of construction, TL/ Distribution lines.	The Employer shall provide encumbrance free project site for construction of the sub-station to the executing agency. However, cutting of tree, bushings, any kind of construction, TL/ Distribution lines if any, shall be under the scope of the bidder as per BOQ.
	Effective date of contract		Please confirm the Effective date of contract, is it from the date of LOA or signing of contract or issuance of the cheque of advance payment	Effective date of contract is it from the date of LOA.
	Section IX, Forms Appendix-1. Terms and procedures of Payment	Advance 10%	Please confirm the advance payment is interest free or interestbearing and what is the rate of interest.	Mobilisation advance shall carry simple interest @ 10% per annum.

Sl.No.	Location	Item No.	Particulars	Clarification Required	OPTCL's Reply
1	Lakhanpur	1.1 to 1.4.3	Schedule No.2 of Price Schedule	Although individual quantities for different line items have been provided, rows have been merged providing single cell for quoting the prices. Please clarify how single rate can be quoted when line wise individual quantities are given which may finally vary at the time of execution. Also columns for unit price and total price for plant and supply schedules and columns for foreign currency portion and local currency portion have also been merged in services please get the same rectified	The individual quantities for different line items have been provided as a reference. Since, the unit for quantity and price is in MT, the bidders are requested to quote the rates provided for the estimated total quantity at respective Sl.nos. and not for individual items as per the BOQ. Any variation to the specified quantity will be adjusted accordingly.
		15.2 to 15.2.7	Schedule No. 4 (S/S) Part A of Price Schedule		
		15.4.1 to 15.4.18			
		1.1.1 to 1.16.5	Schedule No. 4 (S/S) Part B of Price Schedule		
		1.1 to 1.3.2	Schedule No. 4 (Line) Part A of Price Schedule		
2	Thuapalli	2.1.4 to 2.1.7			
		5.1 to 5.7			
		1.1 to 1.4.3	Schedule No.2 of Price Schedule		
		15.1 to 15.2.7	Schedule No. 4 (S/S) Part A of Price Schedule		
		15.4.1 to 15.4.18			
		1.1.1 to 1.16.5	Schedule No. 4 (S/S) Part B of Price Schedule		
		1.1 to 1.3.2	Schedule No. 4 (Line) Part A of Price Schedule		
		2.1.4 to 2.1.7			
		5.1 to 5.7			

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