

ANNEXURE - A : BOQ CUM PRICE SCHEDULE

TENDER ENQUIRY No. PE/PG/SG5/E-4438/14 Dated 19.05.14

SCREENED CONTROL CABLE : 2 X 660 MW SURATGARH SUPERCRITICAL TPS STAGE-V

S.No.	Item Code	Item Description	UOM	Order Quantity (Kms)	LOT-1 Quantity	Unit Price [Ex-Works] Rs	Total Price [Ex-Works] Rs	ED@.....% including cess	CST@2% against Form/C/E1	FREIGHT @.....% of Ex-works	Total F.O.R Price
1.0)	MAIN SUPPLY										
Individual & Overall Screened Cable (Type-F)											
1.1)	1100V grade twisted paired cable with stranded high conductivity annealed, tinned copper extruded PVC insulation (Type-A), individual & overall screened with Aluminium Mylar tape & drain wire, extruded PVC inner sheath (Type ST1), Galvanised steel round wire(if dia under armour is upto 13 mm) or formed wire(if dia under armour is more than 13 mm) armour as per IS 3975 and IS 1554 part-I, with overall FRLS PVC outer sheath (Type ST1), generally conforming to IS:1554 Part-I (latest)										
1.1.1	507-31120-A	1.1kV TYPE F(IO) 2P - 0.5 ARMoured	KM	45	32			Nil against PAC			
1.1.2	507-31009-A	1.1kV TYPE F(IO) 4P - 0.5 ARMoured	KM	110	77						
1.1.3	507-31013-A	1.1kV TYPE F(IO) 8P - 0.5 ARMoured	KM	41	29						
1.1.4	507-31001-A	1.1kV TYPE F(IO) 12P - 0.5 ARMoured	KM	26	18						
1.1.5	507-31005-A	1.1kV TYPE F(IO) 20P - 0.5 ARMoured	KM	20	14						
Overall Screened Cable (Type-G)											
1.2)	1100V grade twisted paired cable with stranded high conductivity annealed, tinned copper extruded PVC insulation (Type-A), overall screened with Aluminium Mylar tape & drain wire, extruded PVC inner sheath (Type ST1), Galvanised steel round wire(if dia under armour is upto 13 mm) or formed wire(if dia under armour is more than 13 mm) armour as per IS 3975 and IS 1554 part-I, with overall FRLS PVC outer sheath (Type ST1), generally conforming to IS:1554 Part-I (latest).										
1.2.1	507-31025-A	1.1kV TYPE G(O) 2P - 0.5 ARMoured	KM	26	18			Nil against			
1.2.2	507-31029-A	1.1kV TYPE G(O) 4P - 0.5 ARMoured	KM	210	147						
1.2.3	507-31033-A	1.1kV TYPE G(O) 8P - 0.5 ARMoured	KM	186	130						
1.2.4	507-31017-A	1.1kV TYPE G(O) 12P - 0.5 ARMoured	KM	91	64						

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1.2.5	507-31118-A	1.1KV TYPE G(O) 2P - 0.75 ARMoured (CONDUCTOR , STRAND DIAMETER 0.193mm)	KM	5	3			PAC			
1.2.6	507-31119-A	1.1KV TYPE G(O) 4P - 0.5 ARMoured (CONDUCTOR , STRAND DIAMETER 0.193mm)	KM	47	33						
		TOTAL:									

Notes : (Applicable for main supply)

- Quantities indicated above at S. No. 1.1 & 1.2 shall be known as Order Quantities. The variation in quantities of all sizes for **Main supply (S. No. 1.1 & 1.2)** put together shall be limited to (-) 30% to (+) 30% of the total contract value derived on the basis of the Ordered quantities for this very project.
- The quantities will be released for manufacture in more than one lot.
- The LOT-1 quantities, which are indicated above, shall be released for manufacture along with LOI. However, manufacturing of LOT-1 quantities shall be done after the approval of technical and quality documentation. Subsequent lots shall be cleared for manufacture based on progress of engineering and site requirements.
- Delivery schedule of LOT-1 and subsequent lots shall be as per NIT.
- The bidder shall indicate the unit price of each type and size of cables listed as per the BOQ in the Price Schedule. The unit price shall apply for adjustment of variation in quantity as stipulated above.
- Overall variation on dispatched quantity of each size shall be (-) 2% and (+) 0%. Cables consumed for testing and inspection shall be to bidder's account.
- The tolerance of drum length shall be +/- 5%. Short lengths of individual cable size not less than 300m may be accepted only in the final drum length to complete the supply within the overall variation limits stipulated above.
- In case of the quantities of any one lot cleared by BHEL for manufacturing are manufactured and offered for inspection by successful bidder in more than one batch, BHEL reserves the right to witness type testing on all batches without any price implications.
- Type Test charges are deemed to be included in price of cables. No separate Type Test charges to be quoted by bidder.
- The charges of Hydrolytic Stability test, if asked to perform shall be reimbursed extra at actual against original money receipt of Govt. lab (CPRI/ERDA).



ANNEXURE - B : BOQ CUM PRICE SCHEDULE

TENDER ENQUIRY No. PE/PG/SG5/E-4438/14 Dated 19.05.14

SCREENED CONTROL CABLE : 2 X 660 MW SURATGARH SUPERCRITICAL TPS STAGE-V

S.No.	Item Code	Item Description	UOM	Order Quantity (Kms)	Unit Price (Ex-Works) Rs	Total Price (Ex-Works) Rs	ED@.....% including cess	CST@2% against Form/C/E1	FREIGHT @% of Ex-works	Total F.O.R Price
2.0)	MANDATORY SPARES									
2.1)	Individual & Overall Screened Cable (Type-F) 1100V grade twisted paired cable with stranded high conductivity annealed, tinned copper extruded PVC insulation (Type-A), individual & overall screened with Aluminium Mylar tape & drain wire, extruded PVC inner sheath (Type ST1) , Galvanised steel round wire(if dia under armour is upto 13 mm) or formed wire(if dia under armour is more than 13 mm) armour as per IS 3975 and IS 1554 part-I, with overall FRLS PVC outer sheath (Type ST1), generally conforming to IS:1554 Part-I (latest)									
2.1.1	507-31000-B	1.1kV TYPE F(10) 2P - 0.5 ARMoured	KM	1			Nil against PAC			
2.1.2		1.1kV TYPE F(10) 4P - 0.5 ARMoured	KM	1						
2.1.3		1.1kV TYPE F(10) 8P - 0.5 ARMoured	KM	1						
2.1.4		1.1kV TYPE F(10) 12P - 0.5 ARMoured	KM	1						
2.1.5		1.1kV TYPE F(10) 20P - 0.5 ARMoured	KM	0.5						
2.2)	Overall Screened Cable (Type-G) 1100V grade twisted paired cable with stranded high conductivity annealed, tinned copper extruded PVC insulation (Type-A), overall screened with Aluminium Mylar tape & drain wire, extruded PVC inner sheath (Type ST1), Galvanised steel round wire(if dia under armour is upto 13 mm) or formed wire(if dia under armour is more than 13 mm) armour as per IS 3975 and IS 1554 part-I, with overall FRLS PVC outer sheath (Type ST1), generally conforming to IS:1554 Part-I (latest).									
2.2.1		1.1kV TYPE G(10) 2P - 0.5 ARMoured	KM	1						
2.2.2		1.1kV TYPE G(10) 4P - 0.5 ARMoured	KM	1						
2.2.3		1.1kV TYPE G(10) 8P - 0.5 ARMoured	KM	1						
2.2.4		1.1kV TYPE G(10) 12P - 0.5 ARMoured	KM	1						

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S.No.	Item Code	Item Description	UOM	Order Quantity (Kms)	Unit Price (Ex-Works) Rs	Total Price (Ex-Works) Rs	ED@.....% including cess	CST@2% against Form/C/E1	FREIGHT @% of Ex-works	Total F.O.R Price
2.2.5	507-31000-B	1.1KV TYPE G(O) 2P - 0.75 ARMoured (CONDUCTOR, STRAND DIAMETER 0.193mm)	KM	1						
2.2.6		1.1KV TYPE G(O) 4P - 0.5 ARMoured (CONDUCTOR, STRAND DIAMETER 0.193mm)	KM	1			Nil against PAC			
		TOTAL:								

Notes : (Applicable for Mandatory Spares)

- Quantities indicated above at S. No. 2.1 & 2.2(mandatory spares) shall be known as Order Quantities(mandatory spares). The quantities are firm & there is no variation in the ordered quantities.
- Quantity of mandatory spares indicated above shall be released alongwith Lot-1 of Main supply at BOQ S.No.-1.0 after approval of technical and quality documentation. One drum of each type & size from the total quantities released (Lot-1 of Main Supply at BOQ S.No.-1.0 + Mandatory spares at BOQ S.No.-2.0) will be declared as mandatory spares and shall be clearly identified.
- Delivery schedule shall be as per NIT.
- The bidder shall indicate the unit price of each type and size of cables listed as per the BOQ in the Price Schedule.
- No negative tolerance is allowed on drum length of mandatory spare.



	Price Variation Formulae	Tender enquiry No. PE/PG/SG5/E-4438/14 Dated 19.05.14
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ANNEXURE-C

SCREENED CONTROL CABLE FOR 2X660 MW SURATGARH STPS , STAGE-V

- Prices shall be variable as per following PVC formulae as per IEEMA. The price variation shall be limited to $\pm 20\%$ of total ex-works actually supplied (cable size wise). PVC shall be limited for the metals for which rates published by IEEMA.

CABLE TYPE	FORMULAE	CONDUCTOR	Table Ref
SCREENED CONTROL CABLE	$P = P_0 + CuF(Cu - Cu_0)$	Cu, as per specification	As per IEEMA

- Quantity variation: The variation in quantities of all sizes put together shall be limited to $\pm 30\%$ of the original PO value (without considering IEEMA price variation) for 2 X 660 MW Suratgarh , stage-V.
- PVC shall be applicable for Order quantity and subsequent lots till completion of requirement of 2 X 660 MW Suratgarh , stage-V project
- Base date for prices (as per IEEMA):

Initial Price:

Base date shall be **April 2014**

Final Price:

The first working day of month, one month prior to the date of inspection.

- PVC shall be payable within agreed contractual delivery period. In case of delay is attributable to vendor, for the payment purpose, the PVC shall be calculated based on rates applicable as on the date of expiry of contractual delivery date or actual delivery date, whichever is beneficial to BHEL.

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