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		PROCUREMENT PROCEDURE OF CPRI (NON WORKS)			
Revision No.	:03			Issue No	: 2
Dt of Revision	: 25.07.2017			Issue Dt.	: 30.06.2003
				Issued by	: P A
Section	: Formats			Documents	: PPM
Topic	: e-Tender Technical Specificati			FORMAT NO.:C	PRI/PUR/@TBID/GT
		Section II - Technical Specification			
		INSTITUTE, BANGALORE Web: www.cpri.in, www.tenderwizard.	<u>com/CPF</u>	<u> RI, Telefax: 080-2207 2</u>	<u>2010</u>
-	y No.: CPRIBLR19HPL23M506				
-	the Equipment/Goods/Services				
		n this format otherwise the offer will be liable to be rejected.			
	ls are mandatorily to be filled in				
		s shall be borne by CPRI. Information regarding the readiness of			
-		by the supplier at least 70 (Seventy) days in advance, to obtain	clearenc	e from the Ministry,	Government of India
for deputation	of nominated CPRI officers.				
Name of the Ve	ndor				
Quotation Num					
				To be completed by	the Bidder
				Guaranteed	Specify deviations/
Sl.No.	Parameters	CPRI Specification / Requirements	Qty	Technical	Remarks if any
					-
				Particulars (GTP)	
			0 N	Particulars (GTP)	
1	Name of items	Set of CT's and PT's	3 Nos	Particulars (GTP)	
1	Name of items	1) 11kV CTs, Ratio:5-10-25-30-50/5A, 25 VA,accuracy 0.1	3 Nos each	Particulars (GTP)	
1	Name of items	1) 11kV CTs, Ratio:5-10-25-30-50/5A, 25 VA,accuracy 0.1 2) 11kV CTs, Ratio:100-200-300-400-500/5A, 25 VA,accuracy		Particulars (GTP)	
1	Name of items	1) 11kV CTs, Ratio:5-10-25-30-50/5A, 25 VA,accuracy 0.1 2) 11kV CTs, Ratio:100-200-300-400-500/5A, 25 VA,accuracy 0.1		Particulars (GTP)	
1	Name of items	1) 11kV CTs, Ratio:5-10-25-30-50/5A, 25 VA,accuracy 0.1 2) 11kV CTs, Ratio:100-200-300-400-500/5A, 25 VA,accuracy 0.1 3) 11kV CTs, Ratio:600-800-1000-1500-2000-2500/5A, 25		Particulars (GTP)	
1	Name of items	1) 11kV CTs, Ratio:5-10-25-30-50/5A, 25 VA,accuracy 0.1 2) 11kV CTs, Ratio:100-200-300-400-500/5A, 25 VA,accuracy 0.1 3) 11kV CTs, Ratio:600-800-1000-1500-2000-2500/5A, 25 VA,accuracy 0.1		Particulars (GTP)	
1	Name of items	1) 11kV CTs, Ratio:5-10-25-30-50/5A, 25 VA,accuracy 0.1 2) 11kV CTs, Ratio:100-200-300-400-500/5A, 25 VA,accuracy 0.1 3) 11kV CTs, Ratio:600-800-1000-1500-2000-2500/5A, 25		Particulars (GTP)	
1	Name of items	1) 11kV CTs, Ratio:5-10-25-30-50/5A, 25 VA,accuracy 0.1 2) 11kV CTs, Ratio:100-200-300-400-500/5A, 25 VA,accuracy 0.1 3) 11kV CTs, Ratio:600-800-1000-1500-2000-2500/5A, 25 VA,accuracy 0.1		Particulars (GTP)	
1	Name of items	 1) 11kV CTs, Ratio:5-10-25-30-50/5A, 25 VA,accuracy 0.1 2) 11kV CTs, Ratio:100-200-300-400-500/5A, 25 VA,accuracy 0.1 3) 11kV CTs, Ratio:600-800-1000-1500-2000-2500/5A, 25 VA,accuracy 0.1 4) 33 kV CTs, Ratio:5-10-50/5A, 25VA,accuracy 0.1 		Particulars (GTP)	
1	Name of items	 1) 11kV CTs, Ratio:5-10-25-30-50/5A, 25 VA,accuracy 0.1 2) 11kV CTs, Ratio:100-200-300-400-500/5A, 25 VA,accuracy 0.1 3) 11kV CTs, Ratio:600-800-1000-1500-2000-2500/5A, 25 VA,accuracy 0.1 4) 33 kV CTs, Ratio:5-10-50/5A, 25VA,accuracy 0.1 5) 33 kV CTs, Ratio:100-150-200-300-400-500/5A, 25VA,accuracy 0.1 		Particulars (GTP)	
1	Name of items	 1) 11kV CTs, Ratio:5-10-25-30-50/5A, 25 VA,accuracy 0.1 2) 11kV CTs, Ratio:100-200-300-400-500/5A, 25 VA,accuracy 0.1 3) 11kV CTs, Ratio:600-800-1000-1500-2000-2500/5A, 25 VA,accuracy 0.1 4) 33 kV CTs, Ratio:5-10-50/5A, 25VA,accuracy 0.1 5) 33 kV CTs, Ratio:100-150-200-300-400-500/5A, 		Particulars (GTP)	
1	Name of items	 1) 11kV CTs, Ratio:5-10-25-30-50/5A, 25 VA,accuracy 0.1 2) 11kV CTs, Ratio:100-200-300-400-500/5A, 25 VA,accuracy 0.1 3) 11kV CTs, Ratio:600-800-1000-1500-2000-2500/5A, 25 VA,accuracy 0.1 4) 33 kV CTs, Ratio:5-10-50/5A, 25VA,accuracy 0.1 5) 33 kV CTs, Ratio:100-150-200-300-400-500/5A, 25VA,accuracy 0.1 6) 33 kV PTs, Ratio:(22-33)kV/√3/110V/√3, 2.5VA, accuracy 0.1 		Particulars (GTP)	
1	Name of items	 1) 11kV CTs, Ratio:5-10-25-30-50/5A, 25 VA,accuracy 0.1 2) 11kV CTs, Ratio:100-200-300-400-500/5A, 25 VA,accuracy 0.1 3) 11kV CTs, Ratio:600-800-1000-1500-2000-2500/5A, 25 VA,accuracy 0.1 4) 33 kV CTs, Ratio:5-10-50/5A, 25VA,accuracy 0.1 5) 33 kV CTs, Ratio:100-150-200-300-400-500/5A, 25VA,accuracy 0.1 6) 33 kV PTs, Ratio:(22-33)kV/√3/110V/√3, 2.5VA, accuracy 0.1 7) 11kV PTs, Ratio:(6.6-11)kV/√3/110V/√3, 2.5VA,accuracy 		Particulars (GTP)	
1	Name of items	 1) 11kV CTs, Ratio:5-10-25-30-50/5A, 25 VA,accuracy 0.1 2) 11kV CTs, Ratio:100-200-300-400-500/5A, 25 VA,accuracy 0.1 3) 11kV CTs, Ratio:600-800-1000-1500-2000-2500/5A, 25 VA,accuracy 0.1 4) 33 kV CTs, Ratio:5-10-50/5A, 25VA,accuracy 0.1 5) 33 kV CTs, Ratio:100-150-200-300-400-500/5A, 25VA,accuracy 0.1 6) 33 kV PTs, Ratio:(22-33)kV/√3/110V/√3, 2.5VA, accuracy 0.1 7) 11kV PTs, Ratio:(6.6-11)kV/√3/110V/√3, 2.5VA,accuracy 0.1 		Particulars (GTP)	
1	Name of items	 1) 11kV CTs, Ratio:5-10-25-30-50/5A, 25 VA,accuracy 0.1 2) 11kV CTs, Ratio:100-200-300-400-500/5A, 25 VA,accuracy 0.1 3) 11kV CTs, Ratio:600-800-1000-1500-2000-2500/5A, 25 VA,accuracy 0.1 4) 33 kV CTs, Ratio:5-10-50/5A, 25VA,accuracy 0.1 5) 33 kV CTs, Ratio:100-150-200-300-400-500/5A, 25VA,accuracy 0.1 6) 33 kV PTs, Ratio:(22-33)kV/√3/110V/√3, 2.5VA, accuracy 0.1 7) 11kV PTs, Ratio:(6.6-11)kV/√3/110V/√3, 2.5VA,accuracy 0.1 8) 3.3 kV PTs, Ratio:(1.1-2.2-3.3)kV/√3/110V/√3, 		Particulars (GTP)	
1	Name of items	 1) 11kV CTs, Ratio:5-10-25-30-50/5A, 25 VA,accuracy 0.1 2) 11kV CTs, Ratio:100-200-300-400-500/5A, 25 VA,accuracy 0.1 3) 11kV CTs, Ratio:600-800-1000-1500-2000-2500/5A, 25 VA,accuracy 0.1 4) 33 kV CTs, Ratio:5-10-50/5A, 25VA,accuracy 0.1 5) 33 kV CTs, Ratio:100-150-200-300-400-500/5A, 25VA,accuracy 0.1 6) 33 kV PTs, Ratio:(22-33)kV/√3/110V/√3, 2.5VA, accuracy 0.1 7) 11kV PTs, Ratio:(6.6-11)kV/√3/110V/√3, 2.5VA,accuracy 0.1 		Particulars (GTP)	
2	Name of items Purpose	 1) 11kV CTs, Ratio:5-10-25-30-50/5A, 25 VA,accuracy 0.1 2) 11kV CTs, Ratio:100-200-300-400-500/5A, 25 VA,accuracy 0.1 3) 11kV CTs, Ratio:600-800-1000-1500-2000-2500/5A, 25 VA,accuracy 0.1 4) 33 kV CTs, Ratio:5-10-50/5A, 25VA,accuracy 0.1 5) 33 kV CTs, Ratio:100-150-200-300-400-500/5A, 25VA,accuracy 0.1 6) 33 kV PTs, Ratio:(22-33)kV/√3/110V/√3, 2.5VA, accuracy 0.1 7) 11kV PTs, Ratio:(6.6-11)kV/√3/110V/√3, 2.5VA,accuracy 0.1 8) 3.3 kV PTs, Ratio:(1.1-2.2-3.3)kV/√3/110V/√3, 		Particulars (GTP)	

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		PROCUREMENT PROCEDURE OF CPRI (NON WORKS)			
Revision No.	:03			Issue No	: 2
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				Issued by	: P A
Section	: Formats			Documents	: PPM
Торіс	: e-Tender Technical Specification D	ocument		FORMAT NO.:C	PRI/PUR/etbid/gtp
		Section II - Technical Specification			
		<u> ITUTE, BANGALORE_Web: www.cpri.in, www.tenderwizard.c</u>	om/CPR	<mark>I, Telefax: 080-2207</mark> 2	<u>2010</u>
Tender Enquiry	VNo.: CPRIBLR19HPL23M506				
_	the Equipment/Goods/Services: CT's				
Note : 1) The Of	ffers should be submitted only in this	s format otherwise the offer will be liable to be rejected.			
2) All blue field	s are mandatorily to be filled in.				
		all be borne by CPRI. Information regarding the readiness of t	he equip	ment/machinery for	r the Pre-despatch
		he supplier at least 70 (Seventy) days in advance, to obtain c			
-	of nominated CPRI officers.				
Name of the Ver					
Quotation Num					
Quotation Num				To be completed by	the Bidder
				Guaranteed	Specify deviations/
Sl.No.	Parameters	CPRI Specification / Requirements	Qty	Technical Particulars (GTP)	Remarks if any
3	Place where equipment /service to be supplied /provided	High Power Lab(HPL), CPRI , Bangalore			
4	Scope	Supply,transport, transit insurance, unloading at site of CT's and PT's required for its satisfactory operation at HPL,CPRI, Bangalore.			
5	Service conditions	Maximum altitude above sea level 900 m Maximum ambient air temperature 41° C Maximum daily average ambient air temperature 37° C Minimum ambient air temperature 7° C Maximum yearly weighted average ambient temperature 38.9° C Maximum relative humidity 79% Average number of rainy days per annum 58.5 Average annual rainfall 974.5mm			

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				Issued by	: P A
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		Section II - Technical Specification			
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_	y No.: CPRIBLR19HPL23M506				
-	the Equipment/Goods/Services				
		this format otherwise the offer will be liable to be rejected.			
	ls are mandatorily to be filled in.				
		s shall be borne by CPRI. Information regarding the readiness			
		by the supplier at least 70 (Seventy) days in advance, to obtain	in clearence	e from the Ministry,	Government of India
for deputation	of nominated CPRI officers.				
Name of the Ve	endor				
Quotation Nun					
				To be completed by	the Bidder
				Guaranteed	Specify deviations/
Sl.No.	Parameters	CPRI Specification / Requirements	Qty	Technical	Remarks if any
				Particulars (GTP)	
6	Technical Specification	11 kV Current Transformers	3		
6.1	Туре	Indoor, Resin cast			
0.1	Type	Indoor, Resin cast			
6.2	Reference Standard	IEC:61869-1:2009 & 61869-2:2012			
0.2	Reference Standard				
6.3	Insulation Class	Class B			
0.0					
6.4	Rated Nominal Voltage	11 kV			
-					
6.5	Highest System Voltage	12 kV			
6.6	Rated Frequency	50 Hz			
6.7	Rated Primary Current	5-10-25-30-50A			
6.8	Rated Secondary current	5A			

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Topic	: e-Tender Technical Specification D			FORMAT NO.:C	PRI/PUR/@TBID/GT
		Section II - Technical Specification			
	CENTRAL POWER RESEARCH INST	ITUTE, BANGALORE Web: www.cpri.in, www.tenderwizard.	.com/CPR	I, Telefax: 080-2207 2	<u>2010</u>
Tender Enqui	ry No.: CPRIBLR19HPL23M506				
Description o	f the Equipment/Goods/Services: CT'	s and PT's			
Note : 1) The (Offers should be submitted only in this	s format otherwise the offer will be liable to be rejected.			
2) All blue fiel	ds are mandatorily to be filled in.				
Inspection she	ould be communicated in writing by t n of nominated CPRI officers.	all be borne by CPRI. Information regarding the readiness of he supplier at least 70 (Seventy) days in advance,to obtain			
	mber and Date				
Quotation Nul				To be completed by	the Diddon
Sl.No.	Parameters	CPRI Specification / Requirements	Qty	Guaranteed Technical Particulars (GTP)	Specify deviations/ Remarks if any
6.9	Number of cores	One			
6.10	Purpose/Application	N (
٩	i alpooor ippirouton	Measurement			
6.11	Rated output	Measurement 25 VA			
6.11 6.12					
	Rated output	25 VA			
6.12	Rated output Class of accuracy	25 VA 0.1 (for all ratios)			
6.12 6.13	Rated output Class of accuracy Instrument security factor Resistance of the secondary winding at	25 VA 0.1 (for all ratios) ≤ 5			

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	CENTRAL POWER RESEARCH INST	ITUTE, BANGALORE Web: www.cpri.in, www.tenderwizard.	com/CPR	I, Telefax: 080-2207 2	<u>2010</u>
Tender Enquir	y No.: CPRIBLR19HPL23M506				
	the Equipment/Goods/Services: CT's				
Note : 1) The O	ffers should be submitted only in this	s format otherwise the offer will be liable to be rejected.			
2) All blue field	ls are mandatorily to be filled in.				
Inspection sho for deputation	uld be communicated in writing by the of nominated CPRI officers.	all be borne by CPRI. Information regarding the readiness of he supplier at least 70 (Seventy) days in advance, to obtain			
Name of the Ve					
Quotation Num	iber and Date		1		.1 5111
				To be completed by	
Sl.No.	Parameters	CPRI Specification / Requirements	Qty	Guaranteed Technical Particulars (GTP)	Specify deviations/ Remarks if any
6.17	Short time thermal rating of primary	1 kA for 1 s			
6.18	Rated continuous thermal current	1.2 times rated current			
6.19	Temp rise of winding at an ambient of 50 deg C	85 deg C			
6.20	Power frequency dry/wet withstand voltage	28 kVrms			
6.21	Impulse withstand test voltage	75 kVp			
6.22	Drawings required	Rating plate drawing and Outline arrangement drawing.			
7	Technical Specification	11 kV Current Transformers	3		

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for deputation	of nominated CPRI officers.				
Name of the Ve	endor				
Quotation Nun	nber and Date				
				To be completed by	the Bidder
				Guaranteed	Specify deviations/
Sl.No.	Parameters	CPRI Specification / Requirements	Qty	Technical	Remarks if any
				Particulars (GTP)	
7.1	Туре	Indoor, Resin cast			
7.2	Reference Standard	IEC:61869-1:2009 & 61869-2:2012			
,					
7.3	Insulation Class	Class B			
-					
7.4	Rated Nominal Voltage	11 kV			
	C C				
7.5	Highest System Voltage	12 kV			
7.6	Rated Frequency	50 Hz			
7.7	Rated Primary Current	100-200-300-400-500 A			
7.8	Rated Secondary current	5A			
7.9	Number of cores	One			

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		he supplier at least 70 (Seventy) days in advance,to obtain	n clearenc	e from the Ministry,	Government of India
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Name of the Ve	endor				
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				Guaranteed	Specify deviations/
Sl.No.	Parameters	CPRI Specification / Requirements	Qty	Technical	Remarks if any
				Particulars (GTP)	
7.1.0		Marcal			
7.10	Purpose/Application	Measurement			
711	Rated output	25 VA			
7.11	Rated output	25 VA			
7.11		25 VA 0.1 (for all ratios)			
	Rated output Class of accuracy				
7.12	Class of accuracy	0.1 (for all ratios)			
7.12	Class of accuracy	0.1 (for all ratios)			
7.12	Class of accuracy Instrument security factor	0.1 (for all ratios) ≤ 5			
7.12 7.13 7.14	Class of accuracy Instrument security factor Resistance of the secondary winding at 75 deg C	0.1 (for all ratios) ≤ 5 As per design calculations			
7.12	Class of accuracy Instrument security factor Resistance of the secondary winding at	0.1 (for all ratios) ≤ 5			
7.12 7.13 7.14 7.15	Class of accuracy Instrument security factor Resistance of the secondary winding at 75 deg C Ratio error	0.1 (for all ratios) ≤ 5 As per design calculations As per Table 201 of IEC:61869-2:2012			
7.12 7.13 7.14	Class of accuracy Instrument security factor Resistance of the secondary winding at 75 deg C	0.1 (for all ratios) ≤ 5 As per design calculations			
7.12 7.13 7.14 7.15	Class of accuracy Instrument security factor Resistance of the secondary winding at 75 deg C Ratio error	0.1 (for all ratios) ≤ 5 As per design calculations As per Table 201 of IEC:61869-2:2012			

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Quotation Nu	nber and Date	1		m 1 1 1 1	.1
Sl.No.	Parameters	CPRI Specification / Requirements	Qty	To be completed by Guaranteed Technical Particulars (GTP)	Specify deviations/ Remarks if any
7.18	Rated continuous thermal current	1.2 times rated current			
7.19	Temp rise of winding at an ambient of 50 deg C	85 deg C			
7.20	Power frequency dry/wet withstand voltage	28 kVrms			
7.21	Impulse withstand test voltage	75 kVp			
7.22	Drawings required	Rating plate drawing and Outline arrangement drawing.			
8	Technical Specification	11 kV Current Transformers	3		
8.1	Туре	Indoor, Resin cast			
8.2	Reference Standard	IEC:61869-1:2009 & 61869-2:2012			

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Quotation Nu	nber and Date		-		.1
Sl.No.	Parameters	CPRI Specification / Requirements	Qty	To be completed by Guaranteed Technical Particulars (GTP)	Specify deviations/ Remarks if any
8.3	Insulation Class	Class B			
8.4	Rated Nominal Voltage	11 kV			
8.5	Highest System Voltage	12 kV			
8.6	Rated Frequency	50 Hz			
8.7	Rated Primary Current	600-800-1000-1500-2000-2500 A			
8.8	Rated Secondary current	5A			
8.9	Number of cores	One			
8.10	Purpose/Application	Measurement			
8.11	Rated output	25 VA			

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_	the Equipment/Goods/Services: CT's				
		format otherwise the offer will be liable to be rejected.			
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Sl.No.	Parameters	CPRI Specification / Requirements	Qty	Guaranteed Technical Particulars (GTP)	Specify deviations/ Remarks if any
8.12	Class of accuracy	0.1 (for all ratios)			
8.13	Instrument security factor	≤ 5			
8.14	Resistance of the secondary winding at 75 deg C	As per design calculations			
8.15	Ratio error	As per Table 201 of IEC:61869-2:2012			
8.16	phase displacement	As per Table 201 of IEC:61869-2:2012			
8.17	Short time thermal rating of primary	5 kA for 1 s			
8.18	Rated continuous thermal current	1.2 times rated current			
8.19	Temp rise of winding at an ambient of 50 deg C	85 deg C			

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		Section II - Technical Specification			
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2) All blue fiel	ds are mandatorily to be filled in.				
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Sl.No.	Parameters	CPRI Specification / Requirements	Qty	Guaranteed Technical Particulars (GTP)	Specify deviations/ Remarks if any
8.20	Power frequency dry/wet withstand voltage	28 kVrms			
8.21	Impulse withstand test voltage	75 kVp			
8.22	Drawings required	Rating plate drawing and Outline arrangement drawing.			
9	Technical data sheet	33 kV Current Transformers	3		
9.1	Туре	Indoor, Resin cast			
9.2	Reference Standard	IEC:61869-1:2009 & 61869-2:2012			
9.3	Insulation Class	Class B			
9.4	Rated Nominal Voltage	33 kV			

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				Particulars (GTP)	
9.5	Highest System Voltage	36 kV			
9.5	ringhest System Voltage	50 KV			
9.6	Rated Frequency	50 Hz			
9.7	Rated Primary Current	5-10-50 A			
9.7 9.8	Rated Primary Current Rated Secondary current	5-10-50 A 5A			
9.8	Rated Secondary current	5A			
9.8 9.9	Rated Secondary current Number of cores	5A One			
9.8	Rated Secondary current	5A			
9.8 9.9	Rated Secondary current Number of cores	5A One			
9.8 9.9 9.10 9.11	Rated Secondary current Number of cores Purpose/Application Rated output	5A One Measurement 25 VA			
9.8 9.9 9.10	Rated Secondary current Number of cores Purpose/Application	5A One Measurement			
9.8 9.9 9.10 9.11	Rated Secondary current Number of cores Purpose/Application Rated output	5A One Measurement 25 VA			

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Sl.No.	Parameters	CPRI Specification / Requirements	Qty	To be completed by Guaranteed Technical Particulars (GTP)	the Bidder Specify deviations/ Remarks if any
9.14	Resistance of the secondary winding at 75 deg C	As per design calculations			
9.15	Ratio error	As per Table 201 of IEC:61869-2:2012			
9.16	phase displacement	As per Table 201 of IEC:61869-2:2012			
9.17	Short time thermal rating of primary	1 kA for 1 s			
9.18	Rated continuous thermal current	1.2 times rated current			
9.19	Temp rise of winding at an ambient of 50 deg C	85 deg C			
9.20	Power frequency dry/wet withstand voltage	70 kVrms			

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9.21	Impulse withstand test voltage	170kVp			
9.22	Drawings required	Rating plate drawing and Outline arrangement drawing.			
10	Technical data sheet	33 kV Current Transformers	3		
10.1	Туре	Indoor, Resin cast			
10.2	Reference Standard	IEC:61869-1:2009 & 61869-2:2012			
10.3	Insulation Class	Class B			
10.4	Rated Nominal Voltage	33 kV			
10.5	Highest System Voltage	36 kV			
10.6	Rated Frequency	50 Hz			

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Sl.No.	Parameters	CPRI Specification / Requirements	Qty	Guaranteed Technical Particulars (GTP)	Specify deviations/ Remarks if any
10.7	Rated Primary Current	100-150-200-300-400-500 A			
10.8	Rated Secondary current	5A			
10.9	Number of cores	One			
10.10	Purpose/Application	Measurement			
10.11	Rated output	25 VA			
10.12	Class of accuracy	0.1 (for all ratios)			
10.13	Instrument security factor	≤ 5			
10.14	Resistance of the secondary winding at 75 deg C	As per Design calculations			

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				Particulars (GTP)	
10.15	Ratio error	As per Table 201 of IEC:61869-2:2012			
10.16	ahaaa digalagamaat	As mor Table 201 of IEC: (1860 2:2012			
10.16	phase displacement	As per Table 201 of IEC:61869-2:2012			
10.17	Short time thermal rating of primary	1.5 kA for 1 s			
10.17	Short time thermal rating of primary	1.5 KA 101 1 5			
10.18	Rated continuous thermal current	1.2 times rated current			
10110					
10.19	Temp rise of winding at an ambient of	85 deg C			
	50 deg C				
10.20	Power frequency dry/wet withstand	70 kVrms			
	voltage				
	č				
10.21	Impulse withstand test voltage	170kVp			
10.22	Drawings required	Rating plate drawing and Outline arrangement drawing.			

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11	Technical data sheet	33 kV Potential Transformers	3		
10.14	Туре	Indoor, Resin cast			
10.15	Reference design ambient temperature	50 Deg C			
10.16	Reference Standard	IEC:61869-1:2009 & 61869-3:2011			
10.17	Nominal system voltage	22-33kV			
10.18	Highest system voltage	36kV			
10.19	Rated frequency (Hz)	50 Hz			
10.2	Insulation Class	Class B			

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				Particulars (GTP)	
10.21	Rated Primary voltage	(22-33)KV / √3			
10.22	Rated secondary voltage	110V / √3			
11.00	No. of phases	Single phase			
11.1	Number of secondary cores	1			
11.1	Number of secondary cores	1			
11.2	Purpose	Measurement			
	F				
	Rated Output	2.5 VA			
11.3	Rateu Output	=10 111			
	-				
11.3 11.4	Class of accuracy	0.1 (for all ratios)			
11.4	Class of accuracy	0.1 (for all ratios)			
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11.4	Class of accuracy	0.1 (for all ratios)			

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Sl.No.	Parameters	CPRI Specification / Requirements	Qty	Technical	Remarks if any
				Particulars (GTP)	
11.7	Rated over voltage factor				
11.17.1	- Continuous	1.2 times rated voltage			
11.17.1	- continuous	1.2 times rated voltage			
11.17.2	- 30 Seconds	1.5 times rated voltage			
11.18	Temp rise of winding at an ambient of	85 deg C			
	50 deg C				
11.19	Power frequency dry/wet withstand	70kVrms			
	voltage				
11.20	Impulse withstand test voltage	170kVp			
11.20	Impulse withstand test voltage Drawings required	170kVp Rating plate drawing and Outline arrangement drawing.			

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Sl.No.	Parameters	CPRI Specification / Requirements	Qty	Guaranteed Technical Particulars (GTP)	Specify deviations/ Remarks if any
12	Technical data sheet	11 kV Potential Transformers	3		
12.1	Туре	Indoor, Resin cast			
12.2	Reference design ambient temperature	50 Deg C			
12.3	Reference Standard	IEC:61869-1:2009 & 61869-3:2011			
12.4	Nominal system voltage	6.6-11 kV			
12.5	Highest system voltage	12 kV			
12.6	Rated frequency (Hz)	50 Hz			
12.7	Insulation Class	Class B			

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12.8	Rated Primary voltage	(6.6-11)KV / √3			
12.9	Rated secondary voltage	110V / √3			
12.1	No. of phases	Single phase			
12.11	Number of secondary cores	1			
12.12	Purpose	Measurement			
12.13	Rated Output	2.5 VA			
12.14	Class of accuracy	0.1 (for all ratios)			
12.15	Voltage error	As per Table 301 of IEC:61869-3:2011			
12.16	Phase displacement	As per Table 301 of IEC:61869-3:2011			

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12.17	Rated over voltage factor				
12.17.1	- Continuous	1.2 times rated voltage			
12.17.2	- 30 Seconds	1.5 times rated voltage			
12.18	Temp rise of winding at an ambient of 50 deg C	85 deg C			
12.19	Power frequency dry/wet withstand voltage	28 kVrms			
12.2	Impulse withstand test voltage	75 kVp			
12.21	Drawings required	Rating plate drawing and Outline arrangement drawing.			

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Sl.No.	Parameters	CPRI Specification / Requirements	Qty	Guaranteed Technical Particulars (GTP)	Specify deviations/ Remarks if any
13	Technical data sheet	3.3 kV Potential Transformers	3		
12.5	Туре	Indoor, Resin cast			
12.6	Reference design ambient temperature	50 Deg C			
12.7	Reference Standard	IEC:61869-1:2009 & 61869-3:2011			
#VALUE!	Nominal system voltage	1.1-2.2-3.3 kV			
#VALUE!	Highest system voltage	3.6 kV			
12.18	Rated frequency (Hz)	50 Hz			
12.19	Insulation Class	Class B			

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		Section II -Technical Specification			
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-	ry No.: CPRIBLR19HPL23M506				
-	f the Equipment/Goods/Services				
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		s shall be borne by CPRI. Information regarding the readiness of			
-		by the supplier at least 70 (Seventy) days in advance, to obtain	n clearence	e from the Ministry,	Government of India
for deputation	of nominated CPRI officers.				
Name of the V					
Quotation Nur	nber and Date				
				To be completed by	
		CPRI Specification / Requirements	Qty	Guaranteed	Specify deviations/
Sl.No.	Parameters			Technical	Remarks if any
				Particulars (GTP)	
12.2	Datad Drimowy voltage	(1.1-2.2-3.3)KV / √3			
12.2	Rated Primary voltage	(1.1-2.2-3.5)KV / V3			
12.21	Rated secondary voltage	$110V/\sqrt{3}$			
	rated secondary verage				
13	No. of phases	Single phase			
13.1	Number of secondary cores	1			
13.1	Number of secondary cores	1			
13.1 13.2	Number of secondary cores Purpose	1 Measurement			
13.2	Purpose	Measurement			
13.2 13.3	Purpose Rated Output	Measurement 2.5 VA			
13.2	Purpose	Measurement			
13.2 13.3 13.4	Purpose Rated Output Class of accuracy	Measurement 2.5 VA 0.1 (for all ratios)			
13.2 13.3	Purpose Rated Output	Measurement 2.5 VA			
13.2 13.3 13.4	Purpose Rated Output Class of accuracy	Measurement 2.5 VA 0.1 (for all ratios)			

PURCHASE DIVISION, CENTRAL POWER RESEARCH INSTITUTE, PROF.SIR C.V.RAMAN ROAD, SADASHIVANAGAR POST, P.B. No.8066, BENGALURU, KARNATAKA. INDIA, TELE FAX : 080 2207 2010, email: purchase@cpri.in, Web: www.cpri.in

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	ry No.: CPRIBLR19HPL23M506				
Description o	f the Equipment/Goods/Services: CT's	s and PT's			
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2) All blue fie	ds are mandatorily to be filled in.				
		all be borne by CPRI. Information regarding the readiness of	the equir	oment/machinery for	r the Pre-despatch
		he supplier at least 70 (Seventy) days in advance, to obtain			-
-	n of nominated CPRI officers.				
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	mber and Date				
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				Guaranteed	Specify deviations/
Sl.No.	Parameters	CPRI Specification / Requirements	Qty	Technical	Remarks if any
		r i i i i i i i i i i i i i i i i i i i		Particulars (GTP)	y
13.7	Rated over voltage factor				
13.17.1	- Continuous	1.2 times rated voltage			
13.17.2	- 30 Seconds	1.5 times rated voltage			
13.1	· ·	85 deg C			
	50 deg C				
13.11	Power frequency dry/wet withstand	10 kVrms			
	voltage				
13.12	Impulse withstand test voltage	40 kVp			
13.13	Drawings required	Rating plate drawing and Outline arrangement drawing.			

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-	f the Equipment/Goods/Services					
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Inspection sho for deputation	ould be communicated in writing n of nominated CPRI officers.	s shall be borne by CPRI. Information regarding the readiness of t by the supplier at least 70 (Seventy) days in advance, to obtain o			-	
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Quotation Nu	nber and Date					
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14	ACCEPTANCE CRITERIA	Following tests shall be performed at manufacturer's laboratories and reports shall be submitted as per IEC:61869- 1:2009,61869-2:2012 & 61869-3:2011. Acceptance is subject to compliance of the equipment as per the above standard.				
14.1	Routine tests	 Power-frequency voltage withstand tests on primary terminals Partial discharge measurement Power-frequency voltage withstand tests on secondary terminals Test for accuracy Verification of markings Inter-turn overvoltage test 				

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Inspection show for deputation	uld be communicated in writing of nominated CPRI officers.	shall be borne by CPRI. Information regarding the readiness of t by the supplier at least 70 (Seventy) days in advance, to obtain o			
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Quotation Num	ber and Date		1		
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14.2	Type tests	 Temperature-rise test Impulse voltage test on primary terminals Note: In case any type test facility is not available at manufacturer's laboratoies same test shall be carried out at CPRI laboratories. The laboratory test charges shall be borne by CPRI for the first time. In case of failure, all the costs related to transportation, insurance, test charges and any other insidental charges involved in carrying out repetition of test at CPRI shall be responsibility of bidder. 			
15	Pre-dispatch inspection	Pre-dispatch inspection shall be carried by CPRI representative at manufacturer works and expenses shall be borne by CPRI.			

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2) All blue field	ls are mandatorily to be filled in				
3) Pre-despate	h Inspection & Training expense	es shall be borne by CPRI. Information regarding the readiness of t	the equip	oment/machinery fo	r the Pre-despatch
Inspection sho	uld be communicated in writing	, by the supplier at least 70 (Seventy) days in advance, to obtain o	clearence	e from the Ministry,	Government of India
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16	Calibration	Calibration certificate issued by any accredited laboratory, as			
		per ISO/IEC:17025-2017shall be produced for all equipment			
		supplied with minimum one year validity.			
17	Warranty	The bidder should offer a warranty of 1 year on set of CT's and			
		PT's			
PN: 1) Bidder sh	all indicate complete details/infor	mation how the CPRI GTP are complied with against each and every	specific	ation parameters & me	ere statement of
'complied' do n	ot suffice the requirement.				
2)A detailed tec	hnical/catalogue/literature/nham	plet and any other details shall be submitted in hard copy in a sealed	cover sur	perscribing enquiry nu	nber and due date so a
	owing address within the due date		cover bup	server ioning enquiry nur	
	5	seas firms shall submit the Letter of Authorization issued by their prin	cipals.		
5		the above prescribed format of Section IA, IB and II only. Informat	-	other forms shall shall	he rejected
	. ,				De rejecteu.
Address : Joint I		hority , Central Power Research Institute, Sadashiva Nagar P.O., P.Box.	.110.8066,	, Bengaluru-560 80.	
T.I.C. 000.00	207 2010., email: purchase@cpri.i				