



CHHATTISGARH STATE POWER TRANS. CO. LTD.

(A Govt. of Chhattisgarh undertaking) (A successor company of CSEB)

CIN- U40108CT2003SGCO15820 / GSTIN-22AADCC5773E1ZX

O/o Chief Engineer (Store & Purchase)

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No.02-16/SE-I(S&P)/TR-19-S&P-45/ **No 228 -** Raipur, Dtd

1 JUN 2020

CORRIGENDUM & CLARIFICATION

Sub: Tender specification No. TR-19/S&P/45 for supply of Portable Dissolve Gas Analyzer for Transformer Oil under PSDF scheme.

The terms & conditions of NIT No.02-16/SE-I(S&P)/TR-19-S&P-41/45/48/159 dtd 19.05.2020 for supply of Portable Dissolve Gas Analyzer for Transformer Oil under PSDF scheme shall be read as mentioned below :-

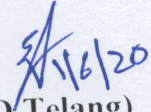
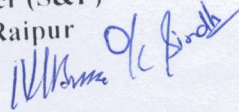
Sl. No	Clause No./ Page No.	Requirement as per tender specification	Amended Requirement																				
CORRIGENDUM/CLARIFICATION																							
Portable Dissolve Gas Analyzer For Transformer Oil																							
1	Section II, Technical Specification of portable dissolve gas analyzer for transformer oil clause 6 (b) . Accuracy & Repeatability	<p>b) Accuracy and Repeatability The portable DGA equipment shall be accurate having high degree of repeatability for each parameter. The portable equipment should be able to measure full range of minimum 7+1 parameters with following accuracy levels:</p> <table border="1"> <thead> <tr> <th>S N</th> <th>Parameter</th> <th>Working Range in PPM</th> <th>Minimum detect ion limit in PPM (Gas Measurement Error Excluding Extraction Error)</th> <th>Accuracy</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Hydrogen</td> <td>5 to 5000 ppm or better</td> <td>5 ppm</td> <td>+ 5 ppm or < +10%</td> </tr> </tbody> </table>	S N	Parameter	Working Range in PPM	Minimum detect ion limit in PPM (Gas Measurement Error Excluding Extraction Error)	Accuracy	1.	Hydrogen	5 to 5000 ppm or better	5 ppm	+ 5 ppm or < +10%	<p>b) Accuracy and Repeatability The portable DGA equipment shall be accurate having high degree of repeatability for each parameter. The portable equipment should be able to measure full range of minimum 7+1 parameters with following accuracy levels:</p> <table border="1"> <thead> <tr> <th>S N</th> <th>Parameter</th> <th>Working Range in PPM</th> <th>Minimum detect ion limit in PPM (Gas Measurement Error Excluding Extraction Error)</th> <th>Accuracy</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Hydrogen</td> <td>5 to 5000 ppm or better</td> <td>5 ppm</td> <td>+ 5 ppm or < +10% whichever</td> </tr> </tbody> </table>	S N	Parameter	Working Range in PPM	Minimum detect ion limit in PPM (Gas Measurement Error Excluding Extraction Error)	Accuracy	1.	Hydrogen	5 to 5000 ppm or better	5 ppm	+ 5 ppm or < +10% whichever
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S N	Parameter	Working Range in PPM	Minimum detect ion limit in PPM (Gas Measurement Error Excluding Extraction Error)	Accuracy																			
1.	Hydrogen	5 to 5000 ppm or better	5 ppm	+ 5 ppm or < +10% whichever																			

				whichever is greater
2.	Carbon Monoxide	10 to 10000 ppm or better	10 ppm	
3.	Carbon Dioxide	50 to 10000 ppm or better	50 ppm	
4.	Acetylene	1 to 10000 ppm or better	1 ppm	
5.	Ethylene	2 to 10000 ppm or better	2 ppm	
6.	Ethane	2 to 10000 ppm or better	2 ppm	
7.	Methane	2 to 10000 ppm or better	2 ppm	
8.	Water dissolved in oil (Moisture)	2 to 10000 ppm or better	3 ppm	< 3 ppm or $\pm 3\%$ whichever is greater

				whichever is greater
2.	Carbon Monoxide	10 to 10000 ppm or better	10 ppm	+ 10 ppm or $< \pm 10\%$ whichever is greater
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4.	Acetylene	1 to 10000 ppm or better	1 ppm	+ 1 ppm or $< \pm 10\%$ whichever is greater
5.	Ethylene	2 to 10000 ppm or better	2 ppm	+ 2 ppm or $< \pm 10\%$ whichever is greater
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7.	Methane	2 to 10000 ppm or better	2 ppm	+ 2 ppm or $< \pm 10\%$ whichever is greater
8.	Water dissolved in oil (Moisture)	2 to 10000 ppm or better	2 ppm	≤ 2 ppm or $\pm 3\%$ whichever is greater

<p>The equipment shall be delivered with:-</p> <ol style="list-style-type: none"> 1. Portable DGA equipment 2. Calibration Report 3. Control Software with communication cable 4. All accessories for operation for at least 3 years 5. Portable Battery Bank preferably 12V for operation without AC supply 	<p>The equipment shall be delivered with:-</p> <ol style="list-style-type: none"> 1. Portable DGA equipment 2. Calibration Report 3. Control Software with communication cable 4. All accessories for operation for at least 3 years 5. Portable Battery Bank preferably 12V for operation without AC supply
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All other terms & conditions of tender TR-19/S&P/45 will remain unchanged.


 (Er. S.D. Telang)
 Chief Engineer (S&P)
 CSPTCL, Raipur


Copy to:-

1. The Chief Engineer (EITC), CSPDCL, Raipur.
 - It is requested to please arrange publication of NIT in the web site of CSPTCL.