



# TENUGHAT VIDYUT NIGAM LIMITED

(A GOVT. OF JHARKHAND UNDERTAKING)

HINOO, DORANDA, RANCHI-834002, JHARKHAND

CIN U40101JH1987SGC013153

Letter No. - 485/20-21

Dated- 13.08.2020

## Tender Addendum/Corrigendum Notice

NIT No.051/EM-II/P/TVNL/RAN/2019-20 (RFx. 1000003885) Procurement of three nos. of transformers of 500 KVA, 11/0.415 KV; 3 phase, 50Hz, copper wound.( Make only of : (i) Kirloskar Electric Company Ltd. (ii) Crompton Greaves Ltd. (iii) Schnieder Electricals (iv) Transformer and Rectifiers India Ltd. Ahmedabad (v) Runthal Industries.) for TTPS Lalpania is here by amended upto the extent as below:-

Bidder has to submit their bid in view of manufacturing quality plan given here with of 04 pages.

The last date for submission of following NIT is hereby extended as details below:-

Sl no	NIT No	SRM RFX No	Description	Revised due date of bid submission
1.	51/EM-II/P/TVNL/RAN/2019-20	1000003885	Procurement of three nos. of Transformer of 500KVA, 11/0.415 KV; 3 phase, 50Hz, copper wound.( Make only of : (i) Kirloskar Electric Company Ltd. (ii) Crompton Greaves Ltd.iii) Schnieder Electricals iv) Transformer and Rectifiers India Ltd. Ahmedabad v) Runthal Industries .) for TTPS Laipania.	26-08-2020 upto 14:00 Hrs

Bid document are to be submitted online through SAP-SRM, TVNL website <http://webdispatcher.tvnl.in/srmprd> up to last date and time of bid submission. The tender document can be downloaded from our website [www.tvnl.in](http://www.tvnl.in).

All other terms and conditions will remain same.

(Rajesh Ranjan)  
Electrical Suptd.Engineer (C&M)

13/08/20

MANUFACTURER'S NAME AND ADDRESS		MANUFACTURING QUALITY PLAN				PROJECT : TTPS, LALPANIA							
MFR.'S LOGO		ITEM : TRANSFORMER		QP NO.: TASQ/TVNL/ELECT-001		CONTRACT NO. :		MAIN-SUPPLIER:					
MANUFACTURER'S NAME AND ADDRESS		SUB-SYSTEM: 11/0.33 KV		REV.NO.: 00		DATE: 19.07.2020		PAGE: ... OF ...					
SL. NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY	REMARKS			
1.	2.	3.	4.	5.	M	C/N	8.	9.	M	C	T	10.	11.
1.0	RAW MATERIALS. 1. CONDUCTORS / Paper covered conductors.	Dimensions. Chem. Composition. Purity Oxygen content in Cu. Elongation Tensile strength Resistivity Paper covering	MAJOR	MEASUREMENT	ONE SAMPLE PER LOT	IEC-317-27(1990) IS-13730-27 (1996)	IEC-317-27(1990) IS-13730-27 (1996)	STC	V	V	V		
1.2	2.TRANSFORMER OIL	BDV, DGA, Moisture, Tan delta @90deg Flash point. Viscosity Resistivity @27 &90 deg C Density at 29.5 deg C Corrosive sulphur Pour point Neutralization value	CRITICAL	TESTING	ONE SAMPLE PER BATCH	IS-335 1993	IS-335 1993	STC	P	W	V		
1.3	3. CRGO LAMINATION	a. Surface condition. b. Burr c. Thickness d. Specific watt loss	MAJOR	PHYSICAL MEASURE	EACH STACK	IS-3024 IEC-404	IS-3024 IEC-404	STC	V	V	V		
1.4	4. GASKETS	Hardness Elongation Tensile strength	MAJOR	MEASURE	PLANT STD	PLANT STD	STC	STC	V	V	-		

  

MANUFACTURER/SUB-SUPPLIER SIGNATURE		TASQ-QMS		TVNL	TVNL
SIGNATURE		REVIEWED BY		APPROVED BY	APPROVAL SEAL

  

**LEGEND: \***  
W: witness V: verification. P: perform  
STC- Suppliers test certificate. IR- Inspection report.  
D\* - Marked (✓) Essentially to be documented in records  
M: Manufacturer/Sub-supplier  
C: Main Supplier. T- Nominated Inspection Agency of TNVL / TVNL



MFR.'S LOGO		MANUFACTURER'S NAME AND ADDRESS		MANUFACTURING QUALITY PLAN				PROJECT : TTPS, LALPANIA				
				ITEM : TRANSFORMER		ACCEPTANCE NORMS		FORMAT OF RECORD		AGENCY		REMARKS
SUB-SYSTEM: 11/0.33 KV		QP NO.: TASQ/TVNL/ELECT-001		REFERENCE DOCUMENT		9		10.		11		
DATE: 19.07.2020		REV.NO.: 00		7.		8.		D*				
PAGE: .... OF ...		M		6.		5.		4.		3.		
OPERATIONS		CHARACTERISTICS		CLASS		TYPE OF CHECK		QUANTUM OF CHECK		M		
C/T		M		C/T		M		C		T		
1.5	5.INSULATING PAPER	a. Hardness b. Thickness c. Density d. Tensile strength e. Electrical properties	MAJOR	MEASURE	PLANT NT STD	IS-9335 IEC-554	STC	STC	V	V	V	
1.6	6. TANK / RADITOR	a. Air leak test	MAJOR	TESTING	PLANT STND.	IS-2062			P	V	V	
1.7	7. TYPE TEST	a. Temp. rise test. At tap corresponding to max loss.	MAJOR	TESTING	SAMP	IS-2026			P	V	V	
2.	8. ROUTINE/ ACCEPTANCE TEST.	a. Winding resistance (all taps). b. Measurement of voltage ratio, all phase. c. Measurement of vector relationship. d. Measurement of impedance voltage and load loss. e. Measurement of no load current and loss at 90, 100 and 110 %	CRITICAL	MEASURE	100%	IS-2026	IR	IR	P	W	W	
			CRITICAL	MEASURE	100%	IS-2026	IR	IR	P	W	W	
			CRITICAL	MEASURE	100%	IS-2026	IR	IR	IR	P	W	W
			CRITICAL	MEASURE	100%	IS-2026	IR	IR	IR	P	W	W
<b>LEGEND: *</b> W: witness V: verification. P: perform , STC- Suppliers test certificate. IR- Inspection report. D* - Marked (✓) Essentially to be documented in records M: Manufacturer/Sub-supplier C: Main Supplier. T- Nominated Inspection Agency of TNVL / TVNL												
MANUFACTURER/ SUB-SUPPLIER		SIGNATURE		MAIN-SUPPLIER		TASQ-QMS		TVNL		TVNL		
						FOR TVNL USE		APPROVED BY		APPROVAL SEAL		

MANUFACTURER'S NAME AND ADDRESS		MANUFACTURING QUALITY PLAN				PROJECT : TTPS, LALPANIA							
MEGR.'s LOGO		ITEM : TRANSFORMER		QP NO.: TASQ/TVNL/ELECT-001		CONTRACT NO. :		MAIN-SUPPLIER:					
SUB-SYSTEM: 11/0.33 KV		REV.NO.: 00		DATE:19.07.2020									
PAGE: .... OF....													
NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REFERENC E DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			REMARKS
					M	C/N				M	C	T	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.			
		f.Measurement of insulation resistance.	CRITICAL	MEASURE	100%	IS-2026	IS-2026	IR	✓	P	W	W	
		g. Dielectric test. Applied voltage test	CRITICAL	MEASURE	100%	IS-2026	IS-2026	IR	✓	P	W	W	
		h. Induced overvoltage withstand test.	CRITICAL	MEASURE	100%	IS-2026	IS-2026	IR	✓	P	W	W	
		i. Repeat no load loss & IR test after completion of dielectric test.	CRITICAL	MEASURE	100%	IS-2026	IS-2026	IR	✓	P	W	W	
		j. Tan delta of winding & bushings.	CRITICAL	MEASURE	100%	IS-2026	IS-2026	IR	✓	P	W	W	
		k. Rating Name plate.	MAJOR	VISUAL	100%	IS-2026	IS-2026	IR	✓	P	W	W	
		l. Overall dimensions	MAJOR	MEASURE	100%	MFR. DRNG	MFR.DRNG	IR	✓	P	W	W	
		m. Paint/Shade	MAJOR	MEASURE	100%	DRNG	DRNG.	IR	✓	P	W	W	

MANUFACTURER/ SUB-SUPPLIER		SIGNATURE		TASQ-QMS		TVNL		TVNL	
MAIN-SUPPLIER		SIGNATURE		REVIEWED BY		APPROVED BY		APPROVAL SEAL	

**LEGEND: \***

W: witness V: verification. P: perform ,  
 STC- Suppliers test certificate. IR- Inspection report.  
 D\* - Marked (✓) Essentially to be documented in records  
 M: Manufacturer/Sub-supplier  
 C: Main Supplier. T- Nominated Inspection Agency of TNVL / TVNL



