

Date: 19.01.2019

Amendment no.-1

Sub: Amendment in tender Terms & Conditions.

Ref: Pre- Bid meeting against Tender no. MMC/T-HTM-14/1218 dated. 07.01.2019.

Bidders are requested to note that following amendments are made for the tender.

Sr. No.	Description
1	<b><u>Clause no. VII (vii). Delivery of Section-I (INSTRUCTIONS TO THE BIDDERS) is modified as under:</u></b> The scheduled delivery period is 9 months from the letter of award (LoA).
	<b><u>Technical specification</u></b>
II	<b>The clause is added :</b> 6.6.17 QR code laminated P touch labels shall be fixed on transformer tank body below the name plate depicting various technical details such as Name of manufacturer, rating, Serial no, date of manufacturing, A/T No. etc. The technical details are attached as Annexure - P
IV	<b>25.i a For Thermosetting powder paint: Deleted</b>
	<b><u>Extension in due date of submission and opening:</u></b> Date and time of submission of Bids - 28.01.2019 at 15:00 hrs. Date and time of Bid Opening - 28.01.2019 at 15:30 hrs.

Other contents of Tender Notice, Commercial Terms and Conditions, Technical Specification remain unchanged.

This amendment is to be duly signed and sealed and to be submitted along with technical bid.

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Chief Engineer (MM Cell)

## **Annexure-P**

### **MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY**

#### **Technical Details for QR CODE GENERATION**

#### **1. SCOPE:**

The QR Code Generation for Distribution Transformer Identification should be easy to create, compact in size and friendly user. Being compact in size the QR Code requires less space.

#### **2. SERVICE CONDITIONS:**

The QR Code laminated P-Touch labels shall be suitable for satisfactory operation under the following tropical conditions.

2.1	Maximum ambient temperature (Degree C)	50
2.2	Maximum temperature in shade (Degree C)	45
2.3	Minimum Temperature (Degree C)	3.5
2.4	Relative Humidity (percent)	10 to 95
2.5	Maximum Annual rain fall (mm)	1450
2.6	Maximum wind pressure (kg/sq.m)	150
2.7	Maximum altitude above mean sea level ( Meter)	1000
2.8	Isoceran level (days per year)	50
2.9	Siesmic level (Horizontal Acceleration)	0.3 g

Moderately hot and humid tropical climate conducive to rust and fungus growth ....

#### **3. GENERAL TECHNICAL REQUIREMENT:**

The QR Code shall be laminated P-Touch labels. The QR Code shall be 2D square barcode which can be store data in encoded format. This saves space and giving specified information to users. This QR Code, if scanned with mobile shall be convert encoded data readable text without error.

#### **4. TECHNICAL DETAILS :**

The QR Code laminated P-Touch labels shall be temperature resistant, fade resistant, water resistant, chemical resistant, scratch ( abrasion ) proof and strong adhèsion.

#### **5. TECHNICAL DATA :**

The QR Code laminated P-Touch labels with following data shall be provided on transformer.

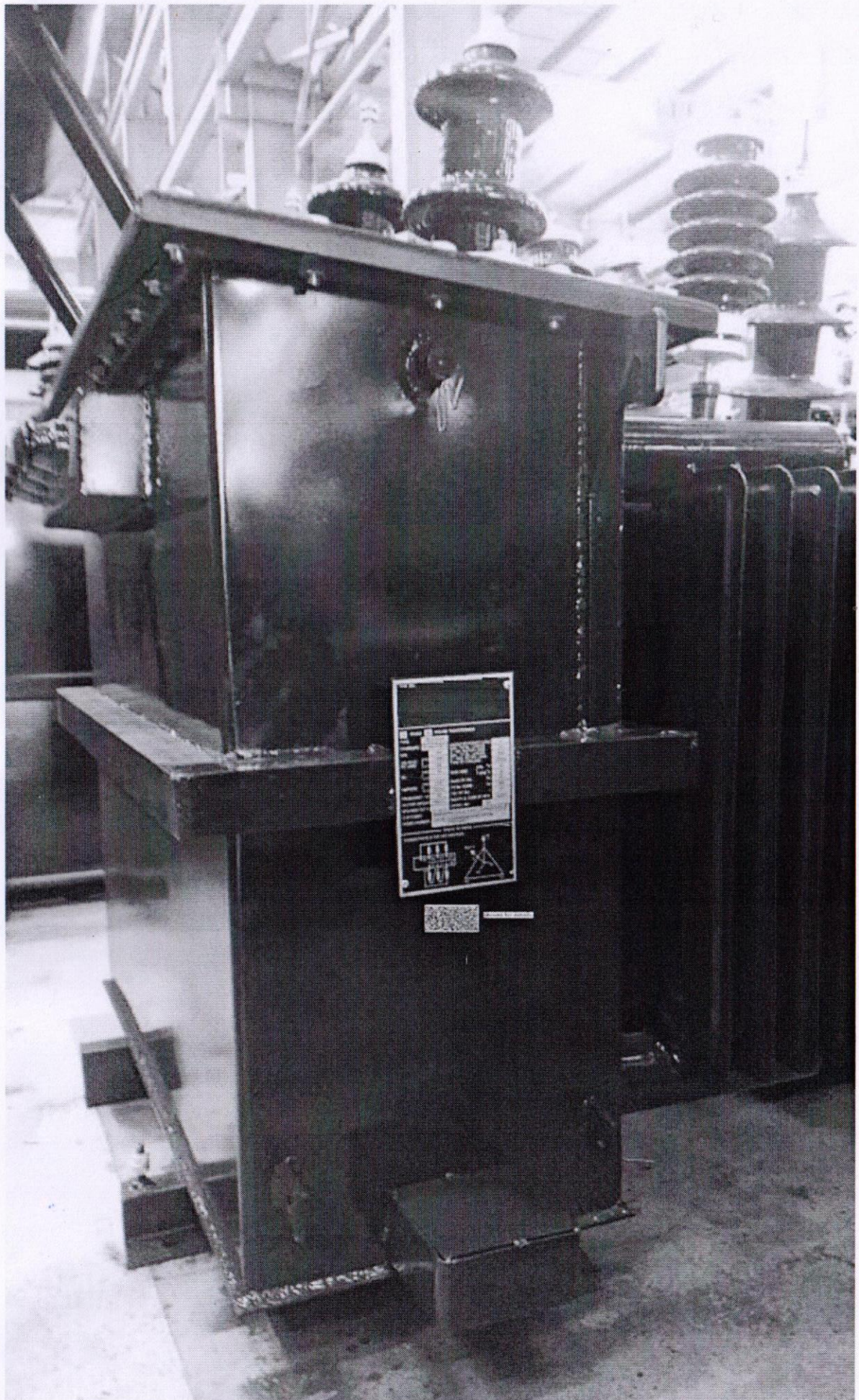
- 1) **Name of Manufacture :**
- 2) **Rating :**
- 3) **Sr. No. :**
- 4) **Date of Manufacturing :**
- 5) **A/T No. :**

#### **6. LOCATION OF QR CODE :**

The QR Code laminated P-Touch labels shall be located below the Name Plate on transformer body. It should be clearly visible.

The QR Code laminated P-Touch labels location as below :





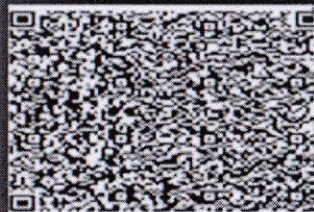


MFD. BY:-

3	PHASE	AL	WOUND TRANSFORMER
TYPE		OUTDOOR	
STANDARD	IS 1180 PART-1		ENERGY EFFICIENCY LEVEL
KVA	100		2
VOLTS-AT NO LOAD	HV	11000	MAX. TOTAL LOSSES AT 50% RATED LOAD
	LV	433	475
			MAX. TOTAL LOSSES AT 100% RATED LOAD
			1650
			TYPE OF COOLING
			ONAN
BIL	HV	75	TEMP RISE
	LV	—	OIL °C
			35
			WDG °C
			40
AMBERS	HV	5.25	MASS OF OIL
	LV	133.34	Kg
			179
			TOTAL MASS
			Kg
			696
			VOL OF OIL
			L
			219
FREQUENCY Hz	50		MONTH & YEAR OF MFG
VECTOR GROUP	Dyn-11		12/2017
IMPEDANCE VOLT %			SERIAL NO.
			DI -
CUSTOMER	MAHARASHTRA STATE ELECTRICITY DISTRIBUTION CO. LTD.		
ORDER NUMBER	LOA NO.		

MADE IN INDIA

CONNECTIONS & VECTOR DIAGRAM :



QRcode for details.