No: EE/EHV O & M /DN-I/PUNE/Tech./ N° 0 0 1 4 5 Date: 3 1 JAN 2018

TO WHOM SO EVER IT MAY CONCERN

Please find attached herewith a detailed schedule for **"Providing & Fixing SCADA (SAS System) at 220 kV Magarpatta Sub-station under EHV O & M Division-I, Pune."**

All interested & experienced bidders are requested to submit their best reasonable budgetary offer **on Email ID : ee6140@mahatransco.in**, as per the schedule **"A & B"** alongwith with HSN Code & applicable rate of GST for various materials/services attached for the same upto **Dtd.11-02-2018.**

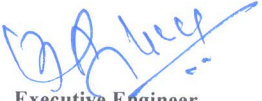Please note that this budgetary offer is for estimation purpose only after implementation of GST.

(Vitthal D.Bhujbal)
Executive Engineer
EHV O & M Division-I,Pune.

ANNEXURE A for Providing / Supply

"Providing & Fixing SCADA (SAS System) at 220 kV Magarpatta Sub-station under EHV O & M Division-I, Pune."

(Supply Portion)

Sr. No	Description	Unit	Quantity	Unit Price (Rs.)	GST Amount in Rs.	Amount (Rs.)	Remark / HSN Code
1	SCADA System with IEC 61850, IEC 104 Protocol & data points of 5000 & relevant modules .(Single user Licensee) along with separate hardware lock (key)/dongle. SCADA software will be capable of communicating with IED's/Relay/ MFM of any make (ABB,Siemens, etc) & communicating on 61850/104/ Modbus protocol and shall have provision of future expansion. MOD bus to FO Convertor capacity of MFM mete with distance. The SCADA (HMI) software will be capable of handling Non IED analog/digital input as per MSETCL requirement. The Third Party Development & supply of Third party SCADA (HMI) software will have facility to support remote control & monitoring via Gateway. Should be capable of running on Windows 7 or higher .	Set	1				
2	Hardware						
A	SCADA PC - I7 Processor, 3Ghz or higher, 16 GB RAM, 1TB Hard Disc, G bite Ethermat port, Ethernet Port - 5 Nos., USB ports - 2 Nos. spare, Serial Ports - 2 Nos., with 24 Inch Monitor, key board, mouse & all other necessary hardwares. SCADA PC must be of HP/DELL/LENOVA/ADVANTECH or of any reputed manufacturer brand with workstation (Industrial) grade components matching with above mentioned details. Total no of bays involved - 35 Nos.	Nos.	2				
B	Ethernet Switch with 8 NO's RJ45 Port Unmanaged Switch	Nos.	1				
C	Modulus Serial to FO Converter	Nos.	9				
D	Voltage Converter (48V to 24V)	Nos.	1				
E	UPS with 5 KVA with 1 Hour Backup	Nos.	1				
F	GPS with SNTP Protocol	Nos.	1				
G	Power Supply Extender (Socket)	Nos.	1				
H	DR PC -I7 Processor, 8 GB RAM, 500 GB Hard Disk, with 24 Inch Monitor	Nos.	1				
	TOTAL						

Executive Engineer
EHV O&M Division-I Pune.

"Providing & Fixing SCADA (SAS System) at 220 kV Magarpatta Sub-station under EHV O & M Division-I, Pune."

(Erection Portion)

S No	Description	Unit	Qty	Unit Price (Rs.)	GST Amount in Rs.	Total Amount (Rs.)	Remark / SAC Code
1	Installation & Commissioning of SCADA at 220 kV Magarpatta Sub station as per the directives of Engineer In Charge & Testing office representatives. The work involves proper training for Relay configuration, SCADA (HMI) customization etc. to the MSETCL Sub station staff as well as Testing Engineers (total 8 staffs) for 10 days. The configuration work of all 35 bays, Integration & mapping of all MFM meters of all bays is to be carried out as per existing system. Gateway Configuration for IEC 104 Protocol as per SLDC Kalwa list + Gatway Configuration for IEC 101.	Nos.	1				
			Total				

Executive Engineer,
EHV O&M Division-I, Pune.