

## पनवेल महानगरपालिका जाहीर निविदा दरपत्रक

आयुक्त, पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भूखंड क्र.०४, सेक्टर - १६, नवीन पनवेल (प) या भूखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अंतर्गत सजावट व इतर अनुषंगीक कामे करणे. या कामाचे अंदाजपत्रक बनविण्याकरीता खाली नमूद केलेल्या बाबींकरीता खालील नमूण्यात दर मागविण्यात येत आहे.

अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका हद्दीतील प्रभाग समिती 'क' प्रभाग क्र.१४ मधील भूखंड क्र.०४, सेक्टर -१६, नवीन पनवेल (प) या भूखंडावर पनवेल महानगरपालिकेचे "स्वराज्य" मुख्यालय इमारतीचे अंतर्गत सजावट व इतर अनुषंगीक कामे करणे.	०४/१२/२०२३ ते १२/१२/२०२३ (७ दिवस)

### EXTERNAL ELECTRICAL WORK Specification

S.NO.	ITEM DESCRIPTION	QUANTITY	UNIT
	<b>NOTE- ALL ITEM RATES SHOULD CONSIST OF THREE YEARS DEFECT LIABILITY PERIOD INCLUDING WARRANTY/ GUARANTEE PERIOD &amp; COMPREHENSIVE MAINTAINANCE IN ALL RESPECT.</b>		
	<b>EXTERNAL ELECTRICAL WORK</b>		
<b>A.5</b>	<b>EXTERNAL LT PANEL</b>		
	<b>Note- ALL LT PANELS ARE TYPE TESTED and shall be certified by 3rd party Certification body as per IEC 61439-1, 2, Tested for Seismic withstand of 2g in accordance with IEEE 693: 2018 &amp; Smartphone/Web based maintenance tracking system</b> <b>- IP-52 RATING Breakers shall be compatible to monitored through' IBMS], the Energy multifunction meter with RS 485/RS232 port shall be provided as per SLD As directed by Engineer in charge, Make - SCHNEIDER / LEGRAND/ SIEMENS / L&amp;T / HAVELLS/DB ELECTRICAL/PRATIK SYSTEMS</b>		
<b>1.1</b>	<b>MAIN LT PANEL PART -1</b>	1	No.
	Supply, installation, testing & commissioning etc. of LT panel certified as per IEC 61439-1&2 Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treated for rust proofing. with separate busbar chamber & cable chambers installed with Sensors for early detection of cable overheating, Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply, Switchboards shall have Rated Impulse withstand voltage (Uimp) of 12kV		

Automatic Fire suppression gas flooding system complete with Perfluoro Ketone (FK-5-1-12)/ HFC 227ea, DLP Assembly with automatic valve, push in connector for tube, Perfluoro Ketone (FK-5-1-12)/ HFC 227ea, mounting bracket, End of Line adopter and low pressure switch for monitoring system activation.Perfluoro Ketone (FK-5-1-12)/ HFC 227ea gas of suitable capacity , Heat detection tube as required and A/V alarm with all necessary installation to complete the system as per specifications. Or as directed etc.		
Main Source Control Unit/ Incomer- 1 No. - 2500A EDO ACB, 50kA, FP with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs,		
DG Source Control Unit/ Incomer- 1 No. - 2500A EDO ACB, 50kA, FP with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs CT-2500/5A,15 VA BURDEN,CLASS- 1 WITH multifunction meter,		
<b>Auto Transfer Switch</b> - 250 A, FP,ATS FOR SOLAR ( PROVIDED FOR DG PROTECTION /SAFETY)		
<b>Potential Bus/Busbar 1 set</b> - 2500A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves		
<b>Feeder section/Outgoing(ALL FEEDER OF 50KA) :</b> - 800 KVA APFCR PANEL-1 No. -- 1600A 4P ACB,EDO,O/C,S/C.U/V,E/F , LIGHT,POWER, INDOOR AC, PANEL-1 No. -- 2000A 4P ACB,EDO,O/C,S/C.U/V,E/F ,LIFT PANEL-1 No. -- 400A 4P MCCB,MP O/C,S/C.U/V,E/F ,VEHICLE CHARGING PANEL-1 No. -- 630A 4P MCCB,MP O/C,S/C.U/V,E/F , UTILITY BUILDING DISTRIBUTION PANEL- 1 No. -- 160A 4P MCCB,TM O/C,S/C.,PUMP PANEL-2- 1 No. -- 63A 4P RCBO,O/C,S/C.,,SPARE- 1 No. -- 2000A 4P MCCB,MP O/C,S/C.U/V,E/F ,SPARE-1 No. -- 1600A 4P MCCB,MP O/C,S/C.U/V,E/F, SPARE-1 No. -- 630A 4P MCCB,MP O/C,S/C.U/V,E/F.		
<b>Bus Coupler</b> - 2500 A 4P BUS COUPLER 50 KA		
<b>MAIN LT PANEL -PART 2</b>		
Supply,installation, testing & commissioning etc. of LT panel certified as per IEC 61439-1&2 Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, teted for rust proofing, with separate busbarcamber & cable chambers installed with Sensors for early detection of cable overheating, Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,Switchboards shall have Rated Impulse withstand voltage (Uimp) of 12kV		
Main Source Control Unit/ Incomer- 1 No. - 2500A EDO ACB, 50kA, FP with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs		
DG Source Control Unit/ Incomer- 1 No. - 2500A EDO ACB, 50kA, FP with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs CT-2500/5A,15 VA BURDEN,CLASS- 1 WITH Multifunction meter,		
<b>Potential Bus/Busbar 1 set</b> - 2500A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves		

	<p>Feeder section/Outgoing : ALL FEEDER 50KA,CHILLER PLANT-1 No. -- 1250A 4P ACB,EDO,O/C,S/C., 125 TR CHILLER ALONG WITH 620 TR CHILLER -1 No. -- 315A 4P MCCB TM,EDO,O/C,S/C.,AC VRV,VENTILATION,PL,EXT LIGHT PANEL-1 No. -- 2000A 4P ACB,EDO,O/C,S/C. ,FIRE FIGHTING PANEL-1 No. -- 630A 4P MCCB,MP O/C,S/C.,PUMP PANEL-1- 1 No. -- 63A 4P RCBO,O/C,S/C.,,800 KVA APFCR PANEL-1 No. -- 1600A 4P ACB,EDO,O/C,S/C.spare-1 No. -- 2000 A,4P ACB O/C,S/C.U/V,E/F , SPARE-1 No. -- 1250A 4P ACB, O/C,S/C.,SPARE-1 No. -- 400A 4P MCCB MP, O/C,S/C. As directed by Engineer in charge</p> <p><b>Make</b> -SCHNEIDER / LEGRAND/ SIEMENS / L&amp;T / DB ELECTRICALS / DEVTA ELECTRICALS / VIVID ELECTROMECH / GOEL POWER / ARROW ENGINNERS /ABAC / ZENIT ENGINEERING</p>		
<b>1.2</b>	<p><b>APFCR PANEL- AS PER SLD - IP-52 Breakers shall be compitable to monitored through' IBMS]</b></p> <p>Supply,installation,testing &amp; commissioning of panel 3rd Party certified as per IEC-61439-1&amp;2 , IEC 61921 Construction Floor mounted cubicle type panel, IP 52 Enclosure Fabricated from 14/16G CRCA sheet steel totally compartmentalized, treted for rust proofing with separate busbarcamber &amp; cable chambers, Front/back access for switchgears, connectors etc.Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply Main Control Unit/ Incomer Suitable rating ACB EDO/ MCCB, TM/MP, FP/TPN O/C,S/C,E/F,U/V and shunt coils as required Breakers shall be compitable to monitored through' IBMS], LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Potential Free Contacts for Remote Monitoring The Energy multifunction meter with RS 485/RS232 port shall be provided as per SLD,</p> <p>Main Control Unit/ Incomer 1No. - 1600A ACB EDO,36kA,FP/MP O/C,S/C,E/F,U/V and LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - Mannual Operation Selector switch Potential Free Contacts for Remote Monitoring.</p> <p>Potential Bus/Busbar 1 set - 1600 A TPN +E 91E Aluminium busbar Insulated with heat shrinkable sleeves,</p> <p><b>FEEDER OUTGOING - All feeder of 36KA</b>,1 NO. 25A,1 NO. 32A, 1 NO. 63 A, 1 NO. 100A ,7 NO 200A, MCCB TPN,16KA with , 1 NO. 25A,1 NO. 32A, 1 NO. 63 A, 1 NO. 100A ,7 NO 200A Contactor ,with thyrister/thermister controls. with ON/OFF lamp &amp; Start/Stop Push Button 1 NO. 10 KVAR,1 NO. 15 KVAR,1 NO. 25 KVAR , 1 NO 50 KVAR, 7 NO 100 KVAR, Capacitor panel to be provided With 7% detuned capacitors APP/MPP CAPACITOR heavy duty,with thyrister/thermister controls. [All the outgoing feeders shall have 'ON' /'OFF'/'TRIP' ,indication/Lamps. I/C's shall be mechanically &amp; Electrically interlocked All the Lamps shall be of LED Type Only Breakers shall be compitable to monitored through' IBMS]. As directed by Engineer in charge.</p> <p><b>Make</b> - SCHNEIDER / LEGRAND/ SIEMENS / L&amp;T / DB ELECTRICALS / DEVTA ELECTRICALS / VIVID ELECTROMECH / GOEL POWER / ARROW ENGINNERS /ABAC / ZENIT ENGINEERING/HAVELLS</p>	2	No.
<b>1.3</b>	<p><b>PUMP PANEL-1</b></p>	1	No.

	<p>Supply,installation, testing &amp; commissioning etc. of LT panel certified as per IEC 61439-1&amp;2 Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, teted for rust proofing. with separate busbarcamber &amp; cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 63A MCCB, 10kA, FP /TM with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs, (BMS COMPATIBLE METER )</p> <p><b>Potential Bus/Busbar 1 set - 63A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</b></p> <p><b>Feeder section/Outgoing :</b></p> <p>OWC -1 No. -- 32A TPN RCBO</p> <p>WATER BODY-1,2 (1W+1S) -4 No. -- 40A TPN RCBO</p> <p>WATER BODY-3,4 (1W+1S) -4 No. -- 25A TPN RCBO</p> <p>BIOGAS PLANT -1 No. -- 32A TPN RCBO</p> <p>SPARE - 1 Nos - 25A TPN RCBO</p> <p>SPARE - 1 Nos - 32A TPN RCBO</p> <p>SPARE - 1 Nos -40A TPN RCBO</p> <p>As directed by Engineer in charge <b>Make</b> -SCHNEIDER / LEGRAND/ SIEMENS / L&amp;T / DB ELECTRICALS / DEVTA ELECTRICALS / VIVID ELECTROMECH / GOEL POWER / ARROW ENGINEERS /ABAC / ZENIT ENGINEERING <b>Make</b> - SCHNEIDER / LEGRAND/ SIEMENS / L&amp;T / HAVELLS</p>		
<b>1.4</b>	<p><b>PUMP PANEL-2</b></p> <p>Supply,installation, testing &amp; commissioning etc. of LT panel certified as per IEC 61439-1&amp;2 Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, teted for rust proofing. with separate busbarcamber &amp; cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply,</p> <p>Control Unit/ Incomer- 1 No. - 63A MCCB, 10kA, FP /TM with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs,</p> <p><b>Potential Bus/Busbar 1 set -63A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves</b></p> <p><b>Feeder section/Outgoing :</b></p> <p>WATER TRANSFER PUMP-1 No. -- 40A TPN RCBO (BMS COMPATIBLE ENERGY METER )</p> <p>RWH PLANT - 2 No -- 40A TPN RCBO</p> <p>SUMP PUMP FOR FIREFIGHTING ROOM - 2 Nos- 25 A TPN RCBO</p> <p>BASEMENT PUMP PANEL - 1 No - 40A TPN MCCB O/C,S/C, TM</p> <p>COOLING TOWER MAKE WATER TRANSFER FROM STP TREATED WATER - 1 No- 40A TPN RCBO</p> <p>SPARE- 1 Nos- 40A TPN RCBO</p> <p>SPARE- 1 Nos- 63A TPN RCBO</p> <p>SPARE- 1 Nos- 100A TPN MCCB O/C,S/C,</p>	1	No.

	As directed by Engineer in charge <b>Make</b> -SCHNEIDER / LEGRAND/ SIEMENS / L&T / DB ELECTRICALS / DEVTA ELECTRICALS / VIVID ELECTROMECH / GOEL POWER / ARROW ENGINNERS /ABAC / ZENIT ENGINEERING <b>Make</b> - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS		
<b>1.7</b>	<b>UTILITY BUILDING DISTRIBUTION PANEL</b>	1	No.
	Supply,installation, testing & commissioning etc. of LT panel certified as per IEC 61439-1&2 Construction- Floor mounted cubicle type panel, Fabricated from 14/16G CRCA ,IP52 sheet steel totally compartmentalized, treted for rust proofing. with separate busbarcamber & cable chambers Front/ back access for switchgears, connectors etc. Suitable for 430 V, 3 phase / 4 Wire System , 50 Hz supply		
	<b>Control Unit/ Incomer-</b> 1 No. - 160A MCCB, 16kA, FP /TM with O/C,S/C,E/F,U/V, E/L and Shunt coils etc. LED Based Phase indicating lamps, control RCBOs , CTs, etc Set - ON/OFF/ TRIP lamps with control RCBOs Set - ON/OFF/ TRIP lamps with control RCBOs,		
	<b>Potential Bus/Busbar 1 set</b> - 160A TPN+E 91E Aluminium busbar,Insulated with heat shrinkable sleeves		
	<b>Feeder section/Outgoing :</b> ALL FFEDER OF 16 KA		
	LIGHT DB FOR STP -1 No. --25A TPN RCBO		
	STP ROOM EX FAN DB -1 No. --40A TPN RCBO		
	WATER TRANSFER PUMP- 2 No. --63A TPN RCBO		
	LANDSCAPE IRRIGATION PUMP - 2 No. --63A TPN RCBO		
	STP TREATED WATER TRANSFER TO WATER BODIES- 2 NOS. 25 A TPN RCBO		
	STP 70 KLD- 1 No. --63A TPN RCBO		
	SUMP PUMP FOR STP- 2 No. --25A TPN RCBO		
	COOLING TOWER MAKEUP WATER FROM STP- 2 No. --40A TPN RCBO		
	LIGHT DB FOR CHILLAR PLANT -1 No. --25A TPN RCBO		
	CHILLER ROOM EX FAN DB -1 No. --40A TPN RCBO		
	LIGHT DB FOR DG AREA -1 No. --25A TPN RCBO		
	LIGHT DB FOR TRANSFORMER AREA -1 No. --25A TPN RCBO		
	SUBSTATION FAN DB -1 No. --32A TPN RCBO		
	SOFTNER FOR THIRD PARTY GREY WATER -1 No. --25A TPN RCBO		
	LDB FOR UTILITY BLOCK TERRACE AREA-1 No. --25A TPN RCBO		
	SCADA ROOM -1 No. --40A TPN RCBO		
	SPARE - 2 Nos - 25A TPN RCBO		
	SPARE - 1 Nos - 32A TPN RCBO		
	SPARE - 1 Nos - 40A TPN RCBO		
	SPARE - 1 Nos - 63A TPN RCBO		
	As directed by Engineer in charge <b>Make</b> -SCHNEIDER / LEGRAND/ SIEMENS / L&T / DB ELECTRICALS / DEVTA ELECTRICALS / VIVID ELECTROMECH / GOEL POWER / ARROW ENGINNERS /ABAC / ZENIT ENGINEERING <b>Make</b> - SCHNEIDER / LEGRAND/ SIEMENS / L&T / HAVELLS		
	<b>TOTAL OF LT PANEL</b>		
<b>A.6</b>	<b>EXTERNAL COMMON AREA</b>		
<b>1.2</b>	<b>LT CABLE / LUGS / GLANDS:-</b>		
<b>1.3</b>	<b>WIRE / POINT WIRING :-</b>		

pmcbandhkamdept01@gmail.com यावर दिनांक 12/12/23 पर्यंत पाठवावे ही विनंती, सदर दर हे अंदाजपत्रक तयार करणेसाठी गृहित धरणेत येणार आहेत.

*M. K. K.*

कार्यकारी अभियंता (प्रकल्प)  
पनवेल महानगरपालिका

जा.क्र पमपा/बांधकाम/2321 /प्र.क्र.03/8980(2)2023  
दि. 9/12/2023

प्रत माहितीस्तव —

1. प्रसिध्दीकरीता
2. माहिती फलक करीता