

## 1. AMI BOQ

Sl. No	Item Description	Unit	Quantity
<b>A Meter Supply</b>			
1.	Single phase whole current Smart Meter 5-60A with provision of RF/GPRS/3G/4G Communication Module along with associated Power Supply as per specifications (Subject to maximum of 10% allowed on GPRS after Approval of Employer)	Nos.	170000
2.	Three Phase whole current Smart Meter 20-100A RF/GPRS/3G/4G Communication Module and associated Power Supply as per specifications (Subject to maximum of 10% allowed on GPRS after Approval of Employer)	Nos.	30000
2A	Common Meter Reading Instrument/Tablet compatible with all type of Smart Meters with all desired communication facilities to enable downloading of parameters from Meters on Pole through wireless communication alongwith accessories	Nos.	112
<b>Sub Total (A)</b>			
<b>B Meter Box Supply:</b>			
3.	Meter Box (1:1) along with mounting clamps, nuts & bolts for 1-Ph Meter	Nos.	25500
4.	Meter Box (2:1) with Bus Bars, internal wiring of appropriate current rating & connections along with mounting clamps, nuts & bolts for 1-Ph Meter	Nos.	21250
5.	Meter Box (4:1) with Bus Bars, internal wiring of appropriate current rating & connections along with mounting clamps, nuts & bolts for 1-Ph Meter	Nos.	25500
6.	Meter Box (1:1) along with mounting clamps, nuts & bolts for 3-Ph Meter	Nos.	30000
7.	Polycarbonate Seals for Meter Box as per Specifications		660000
<b>Sub Total (B)</b>			
<b>C Service Cable Supply &amp; Service</b>			
8.	2C x 25 sq.mm. Aluminium FRLS LT XLPE unarmoured Cable from LT ABC/Conductor to Single phase Meter Box (2:1) (Supply & Installation O/H) including all Terminations	Mtrs	63750
9.	2C x 35 sq.mm. Aluminium FRLS LT XLPE unarmoured Cable from LT ABC/Conductor to Single phase Meter Box (4:1) (Supply & Installation O/H) including all Terminations	Mtrs	76500
10.	4C x 16 sq.mm. Aluminium FRLS LT XLPE unarmoured Cable from LT ABC/Conductor to Three phase Meter Box (1:1) (Supply & Installation O/H) including all Terminations	Mtrs	81000
11.	4C x 25 sq.mm. Aluminium FRLS LT XLPE unarmoured Cable from LT ABC/Conductor to Three phase Meter Box (1:1) (Supply & Installation O/H) including all Terminations	Mtrs	9000
12.	2C x 10 sq.mm. Aluminium FRLS LT XLPE unarmoured Cable from Single phase Meter Box (1:1, 2:1 & 4:1) to Consumer Premises (Supply & Installation) including all Terminations	Mtrs	204000
12.	2C x 16 sq.mm. Aluminium FRLS LT XLPE unarmoured Cable from Single phase Meter Box (1:1, 2:1 & 4:1) to Consumer Premises (Supply & Installation) including all Terminations	Mtrs	714000
13.	2C x 25 sq.mm. Aluminium FRLS LT XLPE unarmoured Cable from Single phase Meter Box (1:1, 2:1 & 4:1) to Consumer Premises (Supply & Installation) including all Terminations	Mtrs	102000
14.	4C x 16 sq.mm. Aluminium FRLS LT XLPE unarmoured Cable from Three phase Meter Box (1:1) to Consumer Premises (Supply & Installation) including all Terminations	Mtrs	162000
15.	4C x 25 sq.mm. Aluminium LT XLPE unarmoured Cable from Three phase Meter Box (1:1) to Consumer Premises (Supply & Installation) including all Terminations	Mtrs	18000
16.	Service main clamps for supporting service cable	Nos.	400000
17.	IPC with Aluminium Alloy connector for 1 phase meters connection from LT ABC	Nos.	101150

18.	IPC with Aluminium Alloy connector for 3 phase meters connection from LT ABC	Nos.	84000
19.	Mini Wedge Connector Suitable for Termination of Cable from Bare O/H Conductor to Meter Box	Nos.	43350
20.	Mini Wedge Connector Suitable for Termination of Cable from Bare O/H Conductor to Meter Box	Nos.	36000
<b>Sub Total (C)</b>			
<b>D</b>	<b>Network Equipments - Supply &amp; Service</b>		
21.	DCU, Field Router, Collector and other associated Network Components required for Communication from Meter along with Installation Clamp and Accessories -Complete suitable for entire geographical area of Jammu and Srinagar City	LS	1
22.	Network Interface Card (NIC) for Meters	Nos.	200000
<b>Sub Total (D)</b>			
<b>E</b>	<b>Meter Installation Services</b>		
23.	Installation /Fixing and Commissioning of Meter Box (1:1) & Associated Pole clamp, accessories, Internal Wiring and complete sealing	Nos.	25500
24.	Installation /Fixing and Commissioning of Meter Box (2:1) & Associated Pole Clamp, accessories ,Internal wiring and complete sealing	Nos.	21250
25.	Installation /Fixing and Commissioning of Meter Box (4:1) & Associated Pole Clamp, accessories ,Internal wiring and complete sealing	Nos.	25500
26.	Installation /Fixing and Commissioning of Single Phase Smart Meter along with Associated accessories and complete sealing in Meter Box.	Nos.	170000
27.	Installation /Fixing and Commissioning of Three Phase Smart Meter along with Meter Box with Associated accessories and complete sealing	Nos.	30000
<b>Sub Total (E)</b>			
<b>F</b>	<b>Dismantling Services</b>		
28.	Removal of Single Phase old Meter & Return Back to JKPDD Store along with Removed Accessories	Nos.	170000
29.	Removal of Three Phase old Meter & Return Back to JKPDD Store along with Removed Accessories	Nos.	30000
30.	Removal of 2 Core cable/Wires & Return Back to JKPDD Store along with Removed Accessories	Mtrs	1020000
31.	Removal of 4 Core Cable/Wires & Return Back to JKPDD Store along with Removed Accessories	Mtrs	180000
<b>Sub Total (F)</b>			
<b>Total cost of AMI Meters+DCU</b>			

## 2. BoM - IT Systems

Sl. No	Item Description	Unit	Quantity
<b>A Application Software</b>			
A.1	Supply, Installation, Configuration & Integration of Unified Head End Application Software suitable for 11.25 Lakh Smart Meters	Lot	1
A.2	Unified Head End Application software- Node based Perpetual License (in lot of 25000 Nos.) upto 11.25 Lakhs licenses during contract period	lot	45
A.3	Upgradation & Integration - Existing Oracle Utilities MDMS to the latest release of Oracle MDMS & Data Migration - Refer Scope for details	Lot	1
A.4	Supply, Installation, Configuration & Integration of Pre-payment Module integrable with existing/upgraded Oracle MDMS and Billing Application	Lot	1
<b>Sub Total (A) for Application Software</b>			
<b>B Data Archiving Software</b>			
B.1	Supply, Installation, Configuration & Integration of Data Archiving and SAN management software	Lot	1
<b>Sub Total (B) for Data Archiving Software</b>			
<b>C Network Management Software</b>			
C.1	Supply, Installation and Commissioning of Centralized Network Management Software along with patch management & identity management	Lot	1
C.2	Supply and Installation of Antivirus software for all machines in control centre	Lot	1
<b>Sub Total (C) for network Management Software</b>			

<b>D</b>	<b>Supply, Installation &amp; Commissioning of Hardware for application</b>		
<b>D.1</b>	Application & DB Server suitable for HES Software Application High Availability Active-Active Mode for DC & DR both	Lot	1
<b>D.2</b>	Application & DB Server suitable for Upgradation of existing Oracle MDM Software Application High Availability Active-Active Mode for DC & DR both(sizing suitable for 20 Lakh consumers).	Lot	1
<b>D.3</b>	Supply, Installation & Commissioning of Development/Quality Testing Server for HES Application at DC only	Lot	1
<b>D.4</b>	Supply, Installation & Commissioning Development / Quality testing Server for MDM Application at DC only	Lot	1
<b>D.5</b>	Supply, Installation, Configuration & Integration of Web Server for access for DC and DR both	Lot	1
<b>Sub Total (D) for Hardware for Application</b>			
<b>E</b>	<b>Supply, Installation &amp; Commissioning of Hardware for storage</b>		
<b>E.1</b>	Supply, Installation, Configuration & Integration of SAN based storage capable to store 5 years Smart Meter data (2,00,000 nos.) from HES/MDM for DC & DR both expandable to 20 lakh meters.	Lot	1
<b>E.2</b>	Supply, Installation & Commissioning of Data Archiving Server for DC & DR both	Lot	1
<b>Sub Total (E) for Hardware for Storage</b>			
<b>F</b>	<b>Supply, Installation &amp; Commissioning of Hardware for network Management</b>		
<b>F.1</b>	Network Management server with patch & identity management	Set	1
<b>F.2</b>	Centralized management console with single 24" monitor with required Software (OS)	Set	1
<b>Sub Total (F) for Hardware for Network Management</b>			
<b>G</b>	<b>Workstation Consoles</b>		
<b>G.1</b>	Supply, Installation & Commissioning of Workstation consoles with dual 24" monitor along with Operating System & license	Nos.	8
<b>Sub Total (G) for workstation consoles</b>			
<b>H</b>	<b>Network Hardware</b>		
<b>H.1</b>	Supply, Installation & Commissioning of Firewall with Network-based Intrusion Prevention System (NIPS) Minimum 8 Ethernet ports (1 Gbps) and 4 Fiber Optics Ports for DC & DR or higher suitable for proposed solution	lot	1
<b>H.2</b>	Supply, Installation & Commissioning of Router with Minimum 8 Ethernet ports (1 Gbps) and 4 Fiber Optic Ports for DC & DR or higher suitable for proposed solution	lot	1
<b>H.3</b>	Supply, Installation & Commissioning of LAN Switch (minimum 24 port 1000 / 100 /10 Mbps, layer 3 switching, 8 Ethernet ports (1 Gbps) for DC & DR or higher suitable for proposed solution	lot	1
<b>Note</b>	<b>SIM cards for Meters on GPRS(maximum of 10% of total quantity subject to approval) &amp; Communication from DCU to HES Backhaul will be provided by JKPDD</b>		
<b>Sub Total (H) for Network Hardware</b>			
<b>TOTAL COST OF SUPPLY OF IT SYSTEM</b>			
<b>Total Cost of Supply of Metering Hardware, AMI Software ,Infrastructure &amp; Services</b>			
<b>J</b>	<b>FMS</b>		
<b>J1</b>	FMS/AMC for 1st Year	Year	1
<b>J2</b>	FMS/AMC for 2nd Year	Year	1
<b>J3</b>	FMS/AMC for 3rd Year	Year	1
<b>J4</b>	FMS/AMC for 4th Year	Year	1
<b>J5</b>	FMS/AMC for 5th Year	Year	1
<b>Sub Total</b>			
<b>Total cost of AMI System</b>			

Note:-

*> Bidder to quote prices of supply & service portion wherever applicable. The final evaluation will*

*Total price of Supply & Service portion*

*>The quoted rates must be inclusive of all taxes as applicable at the time of bidding.*

*>Bidders are to quote their rates strictly as per above format.*

*>Bidders has to fill the rates in all sub-sheets of excel file as per the format.*

*>Any increase or decrease in applicable GST rates shall be paid or deducted accordingly*

*> Above Bill of Material and Bill of Quantity is indicative. Bidder to quote price of items considering solution requirement after assessing the utility requirement.*

*> All the itemized price break up of lot supply to be provided after price bid opening.*