

TIDEL PARK COIMBATORE LTD

(A JV of TIDCO,ELCOT,TIDEL & STPI)

**INTERNATIONAL TECHNO COMMERCIAL TENDER
PART - II - BILL OF QUANTITIES****BACKBONE, DATA VOICE COMMUNICATION SYSTEM AND AUDIO, VIDEO CONFERENCE
SYSTEM EQUIPMENTS RELATED WORKS IN THE BUILDING COMPLEX OF INFORMATION
TECHNOLOGY PARK AT VILLANKURICHI (SEZ AREA), COIMBATORE****DUE DATE FOR SUBMISSION : ON OR BEFORE 26TH MARCH 2010 AT 15.00 HOURS****TO BE SUBMITTED TO :**

The Chairman
M/s. TIDEL Park Coimbatore Ltd
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OWNER'S ENGINEER

M/s.TATA CONSULTING ENGINEERS LTD
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BID SUBMITTED BY:

M/s. _____
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FEBRUARY 2010

TIDEL PARK COIMBATORE LTD.,		
BILL QUANTITIES FOR BACKBONE, DATA VOICE COMMUNICATION SYSTEM AND AUDIO, VIDEO CONFERENCE SYSTEM EQUIPMENTS RELATED WORKS		
SUMMARY		
SECTION	DESCRIPTION	TOTAL Rs.
I	CABLING FOR BACKBONE SYSTEM - COPPER, FIBRE CABLES WITH TERMINATION, RACKS, CORNER BOXES ETC	
II	CAT-6 CABLES AND I/O SOCKETS, TERMINATION	
III	ACTIVE COMPONENTS - SWITCHES, IP PBX ETC	
IV	AUDIO VIDEO EQUIPMENT SYSTEMS	
V	MISCELLANEOUS WORKS	
VI	HARDWARE AND SOFTWARE FOR TIDEL P&FM	
	TOTAL VALUE	
	TOTAL Rs.	
	OPERATION AND COMPREHENSIVE MAINTENANCE CONTRACT	
1	OPERATION CONTRACT FOR 7 YEARS	
2	COMPREHENSIVE MAINTENANCE CONTRACT FOR 7 YEARS INCLUDING 2 YEAR DLP	
	TOTAL VALUE OF O&M	
	GRAND TOTAL	
SIGNATURE OF THE CONTRACTOR		DATE

BILL QUANTITES FOR BACKBONE SYSTEM, IT WORKS, VIEDO CONFIRENCE SYSTEM								
SI. No.	Description	Qty	Unit	Rate - Rs.		Amount -Rs		Total -Rs.
				Supply	Erection	Supply	Erection	Supply + Erection
I	SECTION - A - CABLING FOR BACKBONE SYSTEM - COPPER, FIBRE CABLES WITH TERMINATION, RACKS, KORNE BOXES ETC							
	Supply, laying/installation, testing and commissioning of following systems as per the detailed technical specification.							
1a	Supply, laying, termination, testing and commissioning of 12 CORE Single mode indoor type OFC cable consist (9/125 micron) Fibres in a separate PVC pipe (measured under seperate line items) with standard colour code index as per the detailed specification.	1450	RM					
b	Supply, laying, termination, testing and commissioning of 12 CORE indoor type OFC cable consist 12 core OM 3 Multimode Fibres in a separate PVC pipe (measured under seperate line items) with standard colour code index as per the detailed specification.	1300	RM					
2	Supply, laying, termination, testing and commissioning of OFC cable consist 6 core OM 3 multimode Fibres in a separate PVC pipe (measured under seperate line items)with standard colour code index as per the detailed specification.	2750	RM					
3	Supply, laying, termination, testing and commissioning of Telephone coppe indoor Voice cable min 0.50 mm indoor cable of following sizes standard colour code index as per the detailed specification.							
a	20 Pair 24 AWG copper cable	8500	RM					
b	6 pair 24 AWG copper cable	2800	RM					
4	Supply, fixing, testing and commissioning of following size wall mounted type telephone Krone boxes as per the detailed specification							
a	20 pair + 20 pair MDF wih Krone modules	50	each					
b	10 pair + 10 pair MDF with Krone modules	34	each					
5	Supply, fixing, testing and commissioning of Rack mounted type telephone Krone boxes 3000 + 3000 Pair with suitable enclosure as per the detailed specification	1	each					

Sl. No.	Description	Qty	Unit	Rate - Rs.		Amount -Rs		Total -Rs.
				Supply	Erection	Supply	Erection	
6	Supply, fixing, terminating of following LIU and Fibre components for 12C Fibre cables as per the schematic layout - (For Single mode cables) - (Each end termination consider as one set)	22	set					
	a 12 port 1U sliding single mode mode fiber drawer, unloaded							
	b 12 port spice holder for single mode							
	c SC adopter plate with 3 duplex / SM SC adopter							
	d SC pigtail SM simplex 3 mtrs long							
	e SC - SC fibre P/C duplex 3 mtr long							
	f Wall mounted RACKS/enclosure with lock and key, connected Accessories							
7	Supply, fixing, terminating of following LIU and Fibre components for 12 Fibre cables as per the schematic layout - (For multimode cables) - (Each end termination consider as one set)	22	set					
	a 12 port 1U sliding multimode fiber drawer, unloaded							
	b 12 port spice holder for multimode mode							
	c SC adopter plate with 3 duplex / MM SC adopter							
	d SC pigtail MM simplex 3 mtrs long							
	e SC - SC fibre P/C duplex 3 mtr long							
	f Wall mounted RACKS/enclosure with lock and key, connected Accessories							
8	Supply, fixing, terminating of following LIU Fibre components for 6C OM 3 Fibre cables as per the schematic layout - (For multimode cables) - (Each end termination consider as one set)	40	set					
	a 6 port 1U sliding multimode fiber drawer, unloaded							
	b 6 port spice holder for multimode mode							
	c SC adopter plate with 3 duplex / MM SC adopter							
	d SC pigtail MM simplex 3 mtrs long							
	e SC - SC fibre P/C duplex 3 mtr long							
	f Wall mounted RACKS/enclosure with lock and key, connected Accessories							
9	42U floor mounted rack frame made out of powder cated materials with ventilation louvers in back side provided with glass door in front side. The rack shall be provided with suitable power sockets/strips, ventilation tray fans, horizontal cable manager, bottom wheel etc	6	each					
10	9U wall mounted rack cated materials with ventilation louvers, glass door in front side. The rack shall be provided with suitable power sockets/strips, lock and key, cable manager etc	22	each					

Sl. No.	Description	Qty	Unit	Rate - Rs.		Amount -Rs		Total -Rs.
				Supply	Erection	Supply	Erection	Supply + Erection
Total for CABLING FOR BACKBONE SYSTEM - COPPER, FIBRE CABLES WITH TERMINATION, RACKS, KORNE BOXES ETC								
II	CAT-6 CABLES AND I/O SOCKETS, TERMINATION							
	Supply, laying/installation, testing and commissioning of following systems as per the detailed technical specification.							
11	Supply, laying, termination of CAT-6 E UTP cable 4 pair as per the technical specification	13000	RM					
12a	Supply, fixing of CAT 6 E patch cords of 7 feet	300	each					
b	Supply, fixing of CAT 6 E patch cords of 3 feet	300	each					
13	Supply, fixing, testing and commissioning of CAT - 6 24 port patch panel with suitable accessories	48	each					
14	Supply and fixing of Single I/O face plate with RJ 45 connectors with suitable base box	80	each					
15	Supply and fixing of Double I/O face plate with RJ 45 connectors with suitable base box	20	each					
16	Supply and fixing of Double I/O face plate with RJ 45 connectors without suitable base box in modular furniture	30	each					
Total for CAT-6 CABLES AND I/O SOCKETS, TERMINATION								
III	ACTIVE COMPONENTS - SWITCHES, ROUTERS ETC							
	Supply, installation, testing and commissioning of following systems as per the detailed technical specification.							
17a	Supply, installation, testing and commissioning of Core Switch with 48 10/100/1000BaseT ports, 24 1Gig SFP ports and 10 10Gig XFP ports, including redundant power supply. The switch shall be compliant to the technical specifications mentioned in the annexure for Core Switch	2	each					
b	Supply, installation, testing and commissioning of Core Switch with 24 SFP ports 8 XFP ports, with base software, licenses kit. including redundant power supplyThe switch shall be compliant to the technical specifications mentioned in the annexure for Core Switch	2	each					
18	Supply, installation, testing and commissioning of Stackable Edge Switch with 24 10/100BaseT PoE ports, plus 2 combo 10/100/1000 SFP ports including redundant power supply. The switch shall be compliant to the technical specifications mentioned in the annexure for Edge Switch	24	each					
19	1 port 1000 base LX small form factor pluggable GBIC (mini - GBIC connector type LC)	48	each					

Sl. No.	Description	Qty	Unit	Rate - Rs.		Amount -Rs		Total -Rs.
				Supply	Erection	Supply	Erection	Supply + Erection
20	Supply, installation, testing and commissioning of Network Management Software capable of managing switches, routers and IP Phones with minimum support for 500 network devices. Servers required for the same shall also be provided. The software shall be compliant to the technical specifications mentioned in the annexure for NMS	1	each					
21	SERVERS							
	Supply, installation, testing and commissioning of following system with all necessary hardware and softward							
a	IP PBX Server with Redundant Power Supply as per the technical speciification	2	each					
b	License for IP Phones	150	each					
c	Supply, installation, testing and commissioning of IP Phones. The IP Phone shall be compliant to the technical specifications mentioned in the annexure for Type 1 IP Phones	100	each					
d	Supply, installation, testing and commissioning of IP Phones. The IP Phone shall be compliant to the technical specifications mentioned in the annexure for Type 2 IP Phones	20	each					
e	4 Port Analog Line Module	1	each					
f	4 Port Analog Trunk Module	1	each					
g	30 channel PRI Trunk Module	1	each					
Total for ACTIVE COMPONETS - SWITCHES ETC								
IV	AUDIO AND VIDEO EQUIPMENT SYSTEM							
22	TIDEL BOARD ROOM							
	Supply, installation, testing and commissioning of following systems as per the detailed technical specification.							
a	AUDIO CONFERENCE PHONE IN MD&BOARD ROOM	2	each					
23	TIDEL CONFERENCE ROOM and small meeting room							
a	Full High Definition LCD Display (1920 x 1080); 65 inch Diagonal ; 7000:1 Contrast Ratio ; Integrated HDMI Input x 3, allows seamless feature upgardes, PC connectivity along with all wall fixing accessiries like special brakets with suitable frame etc. The system should supply with suitable remote.	1	each					
b	Wall mount kit for above LCD equipments	1	each					
c	LCD projector of Minimum 4000 ANSI Lumens, WXGA resolution, with RS-232 control & LAN connectivity, HD ready, tunnel cooling system should designed for silent opertaion, full feature remote mouse control. (one for portable + one for mounting)	2	each					

Sl. No.	Description	Qty	Unit	Rate - Rs.		Amount -Rs		Total -Rs.
				Supply	Erection	Supply	Erection	Supply + Erection
d	Fixed Ceiling mount kit with suitable supports, base plate etc	1	each					
e	119" (58" x 104") Diagonal, HDTV format (16:9 aspect ratio) motorised screen with remote and manual control system etc.	2	each					
f	Video Conference system with dual display recording & Streaming with 1+5 party MCU, necessary ports, super video quality, XGA ports, inbuilt power supply, etc	1	each					
g	ISDN 512 Kbps box	1	each					
h	High speed Video Conference Camera, HD (720p), wide angle PAN, Tilt function, Digital zoom features, DSP improves the image quality with suitable fixing accessories	3	each					
i	5 in 1 out S-video switcher	1	each					
j	DVD player with suitable display to read all type of files	1	each					
k	Audio / Speaker		each					
l	Ceiling speakers, 80 watts	8	each					
m	4-channel power amplifier, 19" rack mounting, 4 x 120 Watt	1	each					
n	wireless Handheld microphone	7	each					
o	Wireless Lapal microphone	2	each					
p	Gooseneck condensor microphone	1	each					
q	DSP processor with eco cancellation & Feedback eliminator & teleconference facility with analog telephone line	1	each					
r	DSP processor with eco cancellation & Feedback eliminator	1	each					
s	Face plate for VGA & Audio	1	each					
t	Wall plate in AV rack for permanent Laptop / computer near AV rack	1	each					
u	8 inputs x 2 output RGBHV matrix switcher with Stereo Audio	1	each					
v	AV scalar 1 VGA / 1 S-VIDEO / 1 C-VIDEO	1	each					
w	cables							
	RGBHV							
	S-video							
	Composite Video							
	Audio / Speaker							
	Control Cable							
	CAT 5 cable							
	Power Cable							
	Connectors							
	Heat Shrinks							
	AV rack	1	set					
24	Control package includes the color touchpanel, ST-DSN docking station, 2-Series CP2E control system, CNRFGWA 1-way remote RF receiver, ST-BTPN battery pack, (4) IRP2 infrared emitter probes and power pack.	1	set					
Total for AUDIO VIDEO SYSTEMS								

Sl. No.	Description	Qty	Unit	Rate - Rs.		Amount -Rs		Total -Rs.
				Supply	Erection	Supply	Erection	Supply + Erection
V	MISC. WORKS							
	Supply, Installation, testing and Commissioning of the following system							
25	Supply and installation of following size slotted angle(ladder) GI ready made cable trays of 14 SWG GI sheet. The Quoted rates for installation shall including necessary anchor fasteners and 'L' angle supports @ 600mm interval, suspended down rads etc., to suit site conditions as required.							
a	150 mm wide	150	RM					
b	300 mm wide	2,750	RM					
c	450mm wide	750	RM					
d	600 mm wide	550	RM					
26a	40mm dia FRLS pvc pipes/flexible layed /clamped in the existing wall/cable tray with suitable supports	5500	RM					
b	50 mm dia FRLS pvc pipes/flexible layed /clamped in the existing wall/cable tray with suitable supports	2500	RM					
c	110 mm dia PVC pipe 6kg/mtr layed /clamped in the existing wall/cable tray with suitable supports	700	RM					
d	19mm dia FRLS pvc pipes/flexible layed /clamped in the existing wall/cable tray with suitable supports for CAT-6 cables	15000	RM					
27	MS powder coated junction boxes size 450 mm x 300 mm and 150 mm depth fixed in the shaft with suitable top cover, lock and key, knock out etc	60	each					
28	MS powder coated junction boxes size 600 mm x 900 mm and 150 mm depth fixed in the shaft with suitable top cover, lock and key, knock out etc	5	each					
	Total for MISCELLANEOUS WORKS							
VI	HARD WARE AND SOFTWARE FOR TIDEL P&FM							
29	DATA server of Intel® Xeon® Processor E5504 with 2.00 GHz speed as per the detailed specification attached and working as (1+1) configuration. The Server should capable of sending the live datas to external storage device and should provided with 16 TB rack mounted storage, management server with Latest technologies available in the market during the supply of equipments.	2	nos					
30	Supply, installation, testing and comissioning of FMS -Facility management system software including necessary software license, creating of dash boards, as per the detailed specification enclosed.	1	set					
	Total for HARD WARE AND SOFTWARE							

TIDEL PARK COIMBATORE LIMITED,		
BACK BONE COMMUNICATION SYSTEM		
Bill of Quantities		
II. Operating Contract for 7 Years Including Two year Defects Liability Period (Considered for Evaluation Purpose)		
S.No	Description of Work	Lumpsum Fee in Rs.
	Operation	
	Operation : 2 Shifts/day, 7 day in week, 365 days in a year round, operation of the BDVC Systems equipments shall be executed by the successful Bidder in the premises including keeping log books, generating the occupants bills and records of maintenance etc.	
	Charges for operation for a period of 7 years from the date of handing over of installations to the Client shall be quoted. Required manpower listed below;	
	Quote Lumpsum price for the following period.	
	a. First year after Handing over the Installation – Quote Lumpsum Fee for one year.	
	b. Second Year after Handing over the Installation – Quote Lumpsum Fee for one year.	
	c. Third Year after Handing over the Installation – Quote Lumpsum Fee for one year.	
	d. Fourth Year after Handing over the Installation – Quote Lumpsum Fee for one year.	
	e. Fifth Year after Handing over the Installation – Quote Lumpsum Fee for one year.	
	d. Sixth Year after Handing over the Installation – Quote Lumpsum Fee for one year.	
	e. Seventh Year after Handing over the Installation – Quote Lumpsum Fee for one year.	
	Total C/o to Summary – Amount in Rs. :	
Note:1. The escalation for operating cost for any consecutive year should not exceed 5% value of the Lump sum rate quoted for Operation by the tenderer.		
Station :		
Date :		Signature of Tenderer(s)

TIDEL PARK COIMBATORE LIMITED,		
BACK BONE COMMUNICATION SYSTEM		
Bill of Quantities		
III. Comprehensive Maintenance Contract Fee for 5 Years after Defects Liability Period (Considered for Evaluation Purpose)		
S.No.	Description of Work	Lumpsum Fee in Rs.
	Maintenance :	
	Comprehensive Maintenance of the system supplied, installed, Commissioned by the successful tenderer for 5 years beyond the Defects Liability Period (DLP of 24 months). This will include start up / commissioning routine servicing, regular maintenance, preventive maintenance of equipments and components and break down repairs as and when occurred, ensuring that system does not remain out of service for a period more than 8 hours in case of major breakdowns and one hour in the case of minor breakdowns due to any unforeseen break down. Tidel will provide the Water / Electricity power etc.,	
	The successful tenderer shall keep the essential spares at Tidel Coimbatore site during the Defects Liability Period to avoid the delay in attending faults / maintenace. After the DLP, any such replacement required for maintenace the cost will be paid by the Contractor for replacement.	
	a. First year after DLP – Quote Lumpsum Fee for one year.	
	b. Second Year after DLP – Quote Lumpsum Fee for one year.	
	c. Third Year after DLP – Quote Lumpsum Fee for one year.	
	d. Fourth Year after DLP – Quote Lumpsum Fee for one year.	
	e Fifth Year after DLP – Quote Lumpsum Fee for one year.	
	Total C/o to Summary - Amount in Rs.	
Note:-		
The escalation for Maintenance cost for any consecutive year should not exceed 5% value of the Maintenance Lumpsum rate quoted by the tenderer.		
Station :		
Date :		Signature of Tenderer(s)

Minimum Man Power requirement for BDVC systems- Operation Maintenance services.				
Sl. No.	Designation	No. of persons	Minimum Qualification	Minimum Experience (No. of years)
1	Operation and Maintenance Incharge (DAY shift)	1	Engineering Graduate in Electronics & communications Engineering or IT engineering	Degree Holder-7 Years experience in Contstruction /O & M experience and sould have worked in simillar nature of project, after graduation
2	Technicians	2	Degree in Electronics & Communications Engineering	Diplom Holder-3 Years experience in Contstruction /O & M experience and sould have worked in simillar nature of project
	(2 persons - one person /shift) - 7.00 AM to 10.00 PM)		Or	
DATE				
Date :				Signature of Tenderer(s)