MOM of Rate Schedule Finalization Committee held on dated 3-10-2011 in the Office of General Manager (Projects), PTCUL, Majra Dehradun.

Members Present in the Meeting:

1.	Er. S. C. Bhasin	General Manager (Projects)	Chairman
2.	Er. A. K. Agarwal	Dy. General Manager (Engg.)	Member
3.	Er. Vikas Sharma	Dy. General Manager (C&P)	Member
4.	Er. Deep Shah	Dy. General Manager (PI)	Member
5.	Er. Sandeep K. Ravi	EE (Costing & Funding)	
6.	Er. Veena	J. E. (Costing & Funding)	

Followings are the outcomes of the Meeting held on 03-10-2011:

- 1. The rate list for Supply and Erection of equipment of 220/33 KV GIS S/s were worked out in the Meeting and was approved by the members of the Committee.
- 2. The approved rates are excluding taxes. The applicable taxes will be charge extra.
- 3. Price Schedule for Supply & Erection for equipments of 220/33 KV GIS S/s were worked out from the rate comparison list made on the basis of the average rates quoted by Bidders in the invited Tenders for 220/33 KV GIS S/s Brhamwari and the rates of the Supply & Erection of the items whose rates have been finalized by by the Rate schedule committee for the year 2010-2011.
- 4. The finalized rate list for supply and erection of equipments of 220/33 KV GiS S/s is being enclosed.

Encl.: As Above

(S. K. Ravi) EE (Costing)

(Deep Shah)
DGM (PI)

(Vikas Sharma) DGM (C&P) (A. K. Agarwal) DGM (Engg.) (S.C.Bhasin) GM(Projects)

No....2061./GM(P)/PTCULT Rate Schodule Dt 12-11-2011

CC:

- 1. Director (Projects), PTCUL, Dehradun.
- 2. All Members of the Committee.
- 3. HOD Civil, PTCUL, Dehradun
- 4. Executive Engineer (Costing & Funding), PTCUL, Dehradun.

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Suppl	<u>)WER TRANSMISSION CORPORATION C</u> y:					
	Price Schedule I	For 220 KV G	S Substation			
Sl. No	Description of Material	Unit	Unit Ex-works Price(Average Rates of all the Six Bidders In GIS Brhamwari)	Unit Ex-works Price(Price approved by commettie for 2010-2011)	Unit Ex- works Price suggested by commettie	Remark
1	2	3	4	5	6	7
A	Power Transformer			_	-	
1	50 MVA, 220/33KV Three phase transformer including Bushing, accessories and first filling of oil	Nos.	43060815		43060815	
2	Oil Storage Tank	Nos.	4820458		4820458	
3	Oil sampling Bottle	Nos.	36100		36100	
4	Micro Gas Analyzer / On-Line DGA /PPM Meter	Nos.	4953830		4953830	
5	630KVA 33/0.433KV three phase transformer includign bushing, accessories and first filling of oil	Nos.	1288073	700000	800000	Rate Taken as per Present market study
В	245KV GIS Equipment					Ì
1	245KV, 1600A, SF6 gas insulated transformer bay module each comprising of SF6 gas insulated circuit breaker, current transformer , two bus-bar disconnectors with grounding switch, Transformer disconnector with safety grounding switch, high spped fualt making gruounding switch, surge arrestors (216KV), SF6 gas monitoring system for complete bay, LCC, three 1-phase SF6 ducts and SF6/Oil Bushing to connect to 220/33KV, 50MVA transformer and accessories with GIS etc. to complete transformer bay module.	Nos.	33904438		33904438	
2	245KV, SF6 gas insulated feeder bay module each comprising of SF6 gas insulated circuit breaker, current transformer, two bus-bar disconnectors with grounding switch, line disconnector with safety grounding switch, high spped fualt making grounding switch, , SF6 gas monitoring system for complete bay, L-CC, GIS duct and Air/SF6 bushing termination enclosure and accessories with GIS etc. to complete feeder bay module.	Nos.	32582592		32582592	
3	245KV, 3 single phase (isolated) units, SF6 gas insulated, metal enclosed bus bars each enclused in bus enclosures running along the length of the switchgear to interconnect each of circuit breaker bay module. Each bus bar set shall be complete with voltage transformer complete with safety grounding switch.	Nos.	12627038		12627038	
4	245KV, SF6 gas insualted bus coupler bay module comprising of SF6 gas insulated cirucit breaker, current transformer, two disconnectors with safety grounding switches, SF6 gas monitoring system for complete bay, LCC etc.	Nos.	24416017		24416017	
5	245KV, SF6 gas insualted bus Sectionalizer module comprising of SF6 gas insulated cirucit breaker , two disconnectors with safety grounding switches, Current transformer SF6 gas monitoring system for complete bay, LCC etc.	Nos.	22555088		22555088	
6	245 KV CVT with junction box	Nos.	328026	365,000	328026	
	245 KV lightning Arrester with counter and leakage meter					

Sl. No	Description of Material	Unit	Unit Ex-works Price	Unit Ex-works Price(Price approved by commettie for 2010-2011)	Unit Ex- works Price suggested by commettie	Remark
С	36KV GIS Equipment					
1	36KV, 1250A SF6 gas insulated feeder bay module each comprising of SF6 gas insulated circuit breaker, current transformer, two bus-bar disconnectors with grounding switch, SF6 gas monitoring system for complete bay, cable termination and accessories with GIS etc. to complete feeder bay module and out door cable terminations with all accessories suitable for 3x300 mm2 cable,bay control units, control, and line protection along with associated equipment for SAS as per specification.	Nos.	3391197		3391197	
2	36KV, 2500A SF6 gas insualted bus coupler bay module comprising of SF6 gas insulated cirucit breaker, current transformer, two nos. of disconnectors with earthing switch, SF6 gas monitoring system for complete bay, and bay control units control and protection along with associated equipment for SAS as per specification etc.	Nos.	4421041		4421041	
3	36KV, 1250A SF6 gas insulated transforemr bay module each comprising of SF6 gas insulated cirucuit breaker, current transformer, two nos. of bus bar disconnectors with earthing switch, SF6 gas monitoring system for complete bay, with eable termination and bay control unit, control and complete protection along with associated equipment for SAS as per specification	Nos.	4291963		4291963	
4	36KV, 2500A 3-phase or single phase encapsulated unit, SF6 gas insualted, metal enclosed bus bars each enclosed in bus enclosures running along the length of the switchgear to interconnect each of cirucit breaker bay module. Each bus bar set shall be complete with voltage transformer with safety.	Nos.	2366300		2366300	
5	36KV, SF6 gas insualted bus Sectionalizer module comprising of SF6 gas insulated cirucit breaker, two disconnectors with safety grounding switches, SF6 gas monitoring system for complete bay, control and protection etc.	Nos.	4228466		4228466	
6	36KV, 1250A SF6 gas insulated bay module each comprising of SF6 gas insulated circuit breaker, current transformer, two bus-bar disconnectors with grounding switch, SF6 gas monitoring system for complete bay, cable termination and accessories with GIS etc. to complete feeder bay module and out door cable terminations with all accessories suitable 630 KVA 33/0.4 KV station transformer, control units, control, and protection along with associated equipment.	Nos.	3429008		3429008	
	Complete substation automation system including					
D	hardware and software for the substation & remote control stations alongwith associated equipments as per Technical Specifications					
	Bay Control Units					
1	220kV system	Nos.	2839769		2839769	

Sl. No	Description of Material	Unit	Unit Ex-works Price(Average Rates of all the Six Bidders In GIS Brhamwari)	Unit Ex-works Price(Price approved by commettie for 2010-2011)	Unit Ex- works Price suggested by commettie	Remark
E	220 kV Control and Relay panel					
1	Circuit Breaker Control Panel					
a)	With Auto Reclose (Including LCC for GIS Bays)	Nos.	748414	240,000	390000	Rate Taken as per market study
b)	With out Auto Reclose (Including LCC for GIS Bays)	Nos.	642127	240,000	390000	Rate Taken as per market study
2	Line Protection Panel (Main 1+Main 2)	Nos.	1508984	1,500,000	1508984	
3	Bus Bar Protection Panel					
a)	220kV (Double bus bar protection)	Set	2322746	1,500,000	2322746	
4	Transformer Protection Panel HV	Nos.	1209396	600,000	1209396	
F	PLCC for 220KV Line feeder					
1	Line Traps					
a)	2000A, 0.5 mH/1.0 mH, 40 kA	Nos.	476279	225,000	476279	
2	Coupling device (Phase to Phase)	Nos.	109717	70,000	109717	
3	HF Cable	Km.	170845	100,000	170845	
4	Carrier Equipment (for speech+protection and for speech+Data)	Nos.	397177	295,000	397177	
5	Protection Coupler	Nos.	206611	100,000	150000	Rate Taken as per market study
6	Synchronizing Trolley	Set	292799		292799	
7	Time synchronisation equipment	lot	390079		390079	
G	Air-conditioner & Ventillation System					
1	Split AC (capacity-2T)	No.	59920	35,000	59920	
2	Ventillation system for 220kV & 33kV GIS Hall	LS	1266134		1266134	
Н	LT Switchboard					
1	415V main switchboard	Nos.	1449647		1449647	
2	415V ACDB	Nos.	1778781		1778781	
3	220V DCDB	Nos.	381024		381024	
4	50V DCDB	Nos.	309513		309513	
I	Batteries					
1	220V 500AH	Set	917126	550,000	917126	
2	48V 300AH	Set	120769	120,000	120769	
J	Battery charger system					
1	220V	Set	316514	300,000	316514	
2	48V	Set	205570	100,000	205570	
K	DG set alongwith control panel (100KVA, 440V for 220KV S/s)	Set	1525521	1,500,000	1525521	
L	Fire prevention & extinguishing system					
1	Nitrogen injection fire prevention & extingusihing system for transformer	Set	1564603	1,000,000	1564603	
2	Fire protection for GIS cum control room building, etc. (Portable type the extinguishers system)	Lot	320572		320572	
M	llmuniation sytem					
1	Contorl room/GIS building llumination	LS	1645890		1645890	
2	Switchyard lightning	LS	865445		865445	
3	Solar light system for street light	LS	615147		615147	

Sl. No	Description of Material	Unit	Unit Ex-works Price(Average Rates of all the Six Bidders In GIS Brhamwari)	Unit Ex-works Price(Price approved by commettie for 2010-2011)	Unit Ex- works Price suggested by commettie	Remark
N	Power cables and copper conductor aromoured control cables alognwith lugs, Glands and straight joints					
-	J					
1	Power cables (XLPE)	V	122.4740		1224740	
a) 2	3.5cx300 Sq.mm Power cable (PVC)	Km.	1234740		1234740	
	3.5cx70Sq.mm	Km.	333877		333877	
a b	3.5cx35Sq.mm	Km.	178359		178359	
	4cx16 Sq.mm		211236			
c	4cx16 Sq.mm 4cx6 Sq.mm	Km.	117920		211236 117920	
d 	Control cable (PVC) - comprising of :	Km.	11/920		11/920	
0	33KV power cable and accessories					
- 0	33KV XLPE cable for connecting transformer to 33KV GIS					
a)	or size 1x630sq.mm (Three cable with one spare cable in each Ckt.	Km.	3021612		3021612	
b)	33KV indoor termination suitable for abvoe cable	Nos.	71118		71118	
c)	33KV outdoor termination suitable for abvoe cable	Nos.	67899		67899	
р	Steel structure					
a)	Lattice structure	MT	90233	65,000	65000	Rate Taken as per considering market Rates
b)	Pipe structure	MT	95222	65,000	65000	
Q	EOT Crane					
a	EOT Crane Suitable for 220KV GIS room	Set	1449942		1449942	
b	Moveable ladder of suitable capacity for 220 KV & 33 KV GIS room	Nos.	83367		83367	
R	Insulator strings / Disc Insulators, Hardware, conductor, bus-bar material, cable trays, clamps, connectors, including equipment connectors,pipes for equipment & lighting, all accessories etc	LS	4485427		4485427	
S	Mandatory spares					
a	220/33/11KV Transformer	LS	8951932		8951932	
b	245KV CB	LS	7895287		7895287	
c	245KV CT	LS	1892701		1892701	
d	245KV PT	LS	1424133		1424133	
e	216KV Surge arrestor	LS	2982398		2982398	
f	245KV isoaltors & ES	LS	4087945		4087945	
g	36KV CB	LS	1346657		1346657	
h	36KV CT	LS	322685		322685	
i	36KV VT	LS	379898		379898	
j	36KV Surge Arrestor	LS	149673		149673	

Sl. No	Description of Material	Unit	Unit Ex-works Price(Average Rates of all the Six Bidders In GIS Brhamwari)	Unit Ex-works Price(Price approved by commettie for 2010-2011)	Unit Ex- works Price suggested by commettie	Remark
k	36KV isoaltors & ES	LS	567662		567662	
1	llumination system	LS	185321		185321	
h	Optic fibre cable	LS	38380		38380	
i	Fire fighting	LS	218603		218603	
j	Battery	LS	239206		239206	
k	Battery charger	LS	280070		280070	
1	Relay & protection panels	LS	2094640		2094640	
m	Substation Automation	LS	1605202		1605202	
n	LT Switchgear	LS	393827		393827	
0	Common spares, maintenance	LS	5890570		5890570	
р	DG Set	LS	193727		193727	
T	Operation,Trouble shooting and familiarization of PTCUL staff with the installed system for a period of 12 months.	LS	1705307		1705307	
U	Testing & Maintenance Equipment					
1	Meggar 5 KV (Motorized)	No	278624		278624	
2	Meggar 1 KV (Motorized)	No	25504		25504	
3	Automatic capacitor and Tan Delta measuring kit	No	2695608		2695608	
	Digital Multi meter	Nos.	17208		17208	
5	Leakage tester (Tong type)	Nos.	33648		33648	
6	Selective level meter	No	290529		290529	
7	Signal generator	No	255442		255442	
8	Micro-ohm meter	No	321201		321201	
	D-Spanner set (Insulated)	Nos.	3406		3406	
10	Ring-Spanner set (Insulated)	Nos.	4091		4091	
11	Torque wrench set	Nos.	13831		13831	
12	Insulating gloves	Set	3270		3270	
13	Helmets	Set	894		894	
14	Spliced ladders 5mtr.	Set	17360		17360	
15	Spliced ladders 10mtr.	Set	27763		27763	
16	Spliced ladders 20mtr.	Set	39746		39746	
17	Polyamide or Braided white nylon rope -12 mm	mtr	110		110	
	Polyamide or Braided white nylon rope -14 mm	mtr	232		232	
	Polyamide or Braided white nylon rope -20 mm	mtr	302		302	
	Gapless zinc oxide LA tester	No	836683		836683	
	Oil BDV Kit 0-80 KV	No	619689		619689	
22	Gas Evacuating and refilling device	Set	5987124		5987124	
23	Gas Leakge Monitor	Nos.	84437		84437	
24	Circuit Breaker Analyser	No	1261919		1261919	
25	Portable Partial dischange monitoring system	No	3120805		3120805	
	Dew Point Meter	No	756859		756859	
27	Gas Masks	No	21086		21086	
	Relay Test Kit	No	1567339		1567339	
29	Primary Injection Set 1000 Amp	No	1664906		1664906	

POWER TRANSMISSION CORPORATION OF UTTARAKHAND LIMITED

Suppl	Supply:								
Sl. No	Description of Material	Unit	Unit Ex-works Price(Average Rates of all the Six Bidders In GIS Brhamwari)	Unit Ex-works Price(Price approved by commettie for 2010-2011)	Unit Ex- works Price	Remark			
	16/20 MVA, 132/33KV								
1		Nos.			15000000				
						AS PER BUDGETRY OFFER BY KANHOR			
	10 MVA, 220/33KV								
2		Nos.			10000000				
						AS PER BUDGETRY OFFER BY KANHOR			
	60/80/100 MVA, 220/132KV								
3		Nos.			51000000				
						AS PER BUDGETRY OFFER BY KANHOR			

POWER TRANSMISSION CORPORATION OF UTTARAKHAND LIMITED

Erection:
Price Schedule For 220 KV GIS Substation

Price	Schedule For 220 KV GIS Substation					
Sl. No	Description of Material	Unit	Unit Ex-works Price(Average Rates of all the Six Bidders In GIS Brhamwari)	Unit Ex-works Price(Price approved by commettie for 2010-2011)	Unit Ex-works Price suggested by commettie	Remark
1	2	3	4	5	6	7
A	Power Transformer including Foundation					
	50 MVA, 220/33KV Three phase transformer including Bushing,	N	5((220		5((220	
1	accessories and first filling of oil	Nos.	566330		566330	
2	16/20 MVA, 132/33KV	Nos.			420000	
3	10 MVA, 220/33KV	Nos.			110000	Calculated on the basis of Erection of 40 MVA tsf
4	60/80/100 MVA, 220/132KV	Nos.			800000	
5	Oil Storage Tank	Nos.	49551		49551	
6	Oil sampling Bottle	Nos.				
7	Micro Gas Analyzer / On-Line DGA /PPM Meter	Nos.				
8	630KVA 33/0.433KV three phase transformer including bushing,	Nos.	86985	30000	30000	
В	accessories and first filling of oil 245KV GIS Equipment including foundation					
	245KV, 1600A, SF6 gas insulated transformer bay module each comprising of SF6 gas insulated circuit breaker, current transformer, two bus-bar disconnectors with grounding switch, Transformer disconnector with safety grounding switch, high spped fualt making gruounding switch, surge arrestors (216KV), SF6 gas monitoring system for complete bay, LCC, three 1-phase SF6 ducts and SF6/Oil Bushing to connect to 220/33KV, 50MVA transformer and accessories with GIS etc. to complete transformer bay module	Nos.	1506580		1506580	
	245KV, SF6 gas insulated feeder bay module each comprising of SF6 gas insulated circuit breaker, current transformer, two bus-bar disconnectors with grounding switch, line disconnector with safety grounding switch, high spped fualt making gruounding switch, , SF6 gas monitoring system for complete bay, LCC, GIS duct and Air/SF6 bushing termination enclosure and accessories with GIS etc. to complete feeder bay module.	Nos.	1452595		1452595	
	245KV, 3 single phase (isolated) units, SF6 gas insulated, metal enclosed bus bars each enclosed in bus enclosures running along the length of the switchgear to interconnect each of circuit breaker bay module. Each bus bar set shall be complete with voltage transformer complete with safety grounding switch.	Nos.	930059		930059	
4	245KV, SF6 gas insualted bus coupler bay module comprising of SF6 gas insulated cirucit breaker, current transformer, two disconnectors with safety grounding switches, SF6 gas monitoring system for complete bay, LCC etc.	Nos.	1078615		1078615	
5	245KV, SF6 gas insualted bus Sectionalizer module comprising of SF6 gas insulated cirucit breaker, two disconnectors with safety grounding switches, Current transformer SF6 gas monitoring system for complete bay, LCC etc.	Nos.	1203016	•••	1203016	
6	245 KV CVT with junction box	Nos.	13297	20000	13297	
	245 KV lightning Arrester with counter and leakage meter	Nos.	9088	18000	9088	

Sl. No	Description of Material	Unit	Unit Ex-works Price(Average Rates of all the Six Bidders In GIS Brhamwari)	Unit Ex-works Price(Price approved by commettie for 2010-2011)	Unit Ex-works Price suggested by commettie	Remark
C	36KV GIS Equipment including foundation					
1	36KV, 1250A SF6 gas insulated feeder bay module each comprising of SF6 gas insulated circuit breaker, current transformer, two bus-bar disconnectors with grounding switch, SF6 gas monitoring system for complete bay, cable termination and accessories with GIS etc. to complete feeder bay module and out door cable terminations with all accessories suitable for 3x300 mm2 cable,bay control units, control, and line protection along with associated equipment for SAS as per specification.	Nos.	82675		82675	
2	36KV, 2500A SF6 gas insualted bus coupler bay module comprising of SF6 gas insulated cirucit breaker, current transformer, two nos. of disconnectors with earthing switch, SF6 gas monitoring system for complete bay, and bay control units.control and protection along with associated equipment for SASas per specification etc.	Nos.	93970		93970	
3	36KV, 1250A SF6 gas insulated transforemr bay module each comprising of SF6 gas insulated cirucuit breaker, current transformer, two nos. of bus bar disconnectors with earthing switch, SF6 gas monitoring system for complete bay, with cable termination and bay control unit, control and complete protection along with associated equipment for SASas per specification	Nos.	108224		108224	
4	36KV, 2500A 3-phase or single phase encapsulated unit, SF6 gas insualted, metal enclosed bus bars each enclosed in bus enclosures running along the length of the switchgear to interconnect each of cirucit breaker bay module. Each bus bar set shall be complete with voltage transformer with safety.	Nos.	42015		42015	
5	36KV, SF6 gas insualted bus Sectionalizer module comprising of SF6 gas insulated cirucit breaker, two disconnectors with safety grounding switches, SF6 gas monitoring system for complete bay, control and protection etc.	Nos.	84028		84028	
6	36KV, 1250A SF6 gas insulated bay module each comprising of SF6 gas insulated circuit breaker, current transformer, two bus-bar disconnectors with grounding switch, SF6 gas monitoring system for complete bay, cable termination and accessories with GIS etc. to complete feeder bay module and out door cable terminations with all accessories suitable 630 KVA 33/0.4 KV station transformer, control units, control, and protection along with associated equipment.	Nos.	93571		93571	
D	Complete substation automation system including hardware and software for the substation & remote control stations alongwith associated equipments as per Technical Specifications Bay Control Units					
1	220kV system	Nos.	76117		76117	
I	220k v system	NOS.	/011/		76117	

Sl. No	Description of Material	Unit	Unit Ex-works Price(Average Rates of all the Six Bidders In GIS Brhamwari)	Unit Ex-works Price(Price approved by commettie for 2010-2011)	Unit Ex-works Price suggested by commettie	Remark
E	220 kV Control and Relay panel					
1	Circuit Breaker Control Panel					
a)	With Auto Reclose	Nos.	18160	10000	10000	
b)	With out Auto Reclose	Nos.	16525	10000	10000	
2	Line Protection Panel (Main 1+Main 2)	Nos.	21959	10000	10000	
3	Bus Bar Protection Panel					
a)	220kV (Double bus bar protection)	Set	17522	10000	10000	
4	Transformer Protection Panel HV	Nos.	17303	10000	10000	
F	PLCC for 220KV Line feeder					
1	Line Traps					
a)	2000A, 0.5 mH/1.0 mH, 40 kA	Nos.	16027	20000	16027	
2	Coupling device (Phase to Phase)	Nos.	4297	500	4297	
3	HF Cable	Km.	10468	10000	10468	
4	Carrier Equipment (for speech+protection and for speech+Data)	Nos.	6612	10000	6612	
5	Protection Coupler	Nos.	3907	2000	3907	
6	Time synchronisation equipment	lot	8161	2000	8161	
G	Air-conditioner & Ventillation System	iot	0101		0101	
1	Split AC (capacity-2T)	No.	2953	1000	2953	
2	Ventillation system for 220kV & 33kV GIS Hall	LS	229841	1000	229841	
H	LT Switchboard	LS	229041		229041	
	415V main switchboard	N	19340		19340	
2		Nos.				
	415V ACDB 220V DCDB	Nos.	17025		17025 9912	
3		Nos.	9912			
4	50V DCDB	Nos.	7980		7980	
I	Batteries	G :	4	12000		
1	220V 500AH	Set	25297	12000	25297	
2	48V 300AH	Set	19757	5000	19757	
J	Battery charger system	G :	11015		44045	
1	220V	Set	11017		11017	
	48V DG set alongwith control panel (100KVA, 440V for 220KV S/s)	Set Set	10455		10455 60721	
		Set	60721	25000	00/21	
L	Fire prevention & extinguishing system					
1	Nitrogen injection fire prevention & extingusihing system for transformer	Set	168428		168428	
	Fire protection for GIS cum control room building, etc. (Portable	т.			25051	
2	type the extinguishers system)	Lot	25851		25851	
M	Illmuniation sytem					
1	Contorl room/GIS building illumination	LS	173653		173653	
2	Switchyard lightning	LS	101875		101875	
3	Solar light system for street light	LS	72899		72899	
N	Power cables and copper conductor aromoured control					
_	cables alognwith lugs, Glands and straight joints					
1	Power cables (XLPE)	17	00015		005:-	
a)	3.5cx300 Sq.mm	Km.	80012		80012	
2	Power cable (PVC)	17	25222	40000	3=5==	
a)	3.5cx70Sq.mm	Km.	37390	40000	37390	
<u>b)</u>	3.5cx35Sq.mm	Km.	24525		24525	
c)	4cx16 Sq.mm	Km.	22192		22192	
d)	4cx6 Sq.mm	Km.	20842		20842	
3)	ControlCable (PVC)					
a)	33KV XLPE cable for connecting transformer to 33KV GIS or size 1x630sq.mm (Three cable with one spare cable in each Ckt.)	Km.	165657		165657	
P/	33KV indoor termination suitable for above cable	Nos.	7465		7465	
p)	33KV indoor termination suitable for above cable		7771			
c)	33K v outdoor termination suitable for above cable	Nos.	1111		7771	

Sl. No	Description of Material	Unit	Unit Ex-works Price(Average Rates of all the Six Bidders In GIS Brhamwari)	Unit Ex-works Price(Price approved by commettie for 2010-2011)	Unit Ex-works Price suggested by commettie	Remark
О	Steel structure					
a)	Lattice structure	MT	16240	5000	5000	
b)	Pipe structure	MT	16280	5000	5000	
P	EOT Crane					
a)	EOT Crane Suitable for 220KV GIS room	Set	80961		80961	
b)	Moveable ladder of suitable capacity for 220 KV & 33 KV GIS room	Nos.				
P	Insulator strings / Disc Insulators, Hardware, conductor, bus- bar material, cable trays, clamps, connectors, including equipment connectors, pipes for equipment & lighting, all accessories etc	LS	340856		340856	