

## PART II (RATE SCHEDULE)

TS NO BHE/PW/PUR/SLT-ELE/540						
BHARAT HEAVY ELECTRICALS LIMITED						
POWER SECTOR, WESTERN REGION						
RATE SCHEDULE FOR SLPP II 2 X 125 MW UNIT #3&4 MAIN ELECTRICAL PACKAGE						
SEC	SI No / DESCRIPTION			QTY	UOM	UNIT RATE (Rs.)
A	POWER TRANSFORMERS					TOTAL AMOUNT (Rs.)
	A.1	Transportation up to foundation, Assembly, Testing & Commissioning of Three phase <b>150 MVA 10.5/230 kV Generator Transformer</b> including all accessories, piping, cabling etc. as described in Tender Specification.	2	No.		
	A.2	Transportation from stores/ storage yard to erection site, assembly, testing & commissioning of <b>45/25/25 MVA, 3 phase 10.5/6.9/6.9 kV Unit Auxiliary Transformer</b> including all accessories, piping, cabling etc as described in tender specification, including neutral grounding transformers 4 nos.	2	No.		
	A.3	Transportation from stores/ storage yard to erection site , assembly, testing & commissioning of <b>2.0 MVA , 3 phase 6.6 kV/ 0.433 KV, UNIT SERVICE TRANSFORMER</b> including all accessories, piping, cabling etc as described in tender specification, including neutral grounding transformers 1 no for Each Transformer.	4	No.		
	A.4	Transportation from stores/ storage yard to erection site , assembly, testing & commissioning of <b>1.6 MVA , 3 phase 6.6 kV/ 0.433 KV, STATION SERVICE TRANSFORMER</b> including all accessories, piping, cabling etc as described in tender specification, including neutral grounding transformers 1 no for Each Transformer.	2	No.		
	A.5	Transportation from stores/ storage yard to erection site , assembly, testing & commissioning of <b>2.0 MVA , 3 phase 6.6 KV / 0.433 KV ESP SERVICE Transformer</b> including all accessories, piping, cabling etc as described in tender specification, including neutral grounding transformers 2 nos.	4	No.		
	A.6	Transportation from stores/ storage yard to erection site , assembly, testing & commissioning of <b>1.6 MVA , 3 phase 6.6 KV / 0.433 KV CLWPH SERVICE Transformer</b> including all accessories, piping, cabling etc as described in tender specification, including neutral grounding transformers 2 nos.	2	No.		
	A.7	Transportation from stores/ storage yard to erection site , assembly, testing & commissioning of <b>1.6 MVA , 3 phase 6.6 KV / 0.433 KV COOLING TOWER SERVICE Transformer</b> including all accessories, piping, cabling etc as described in tender specification, including neutral grounding transformers 2 nos.	3	No.		

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SEC	SI No / DESCRIPTION			QTY	UOM	TOTAL AMOUNT (Rs.)
<b>B</b>	<b>ISOLATED PHASE BUS DUCT FOR GENERATOR , UAT AND GENERATOR TRANSFORMER, BUSDUCT MONTED GENERATOR CIRCUIT BREAKER,</b>					
	B.1	Transportation from stores / storage yard to erection site, assembly, erection, welding, testing & commissioning of <b>Isolated Phase Bus Duct (10.5 kV)</b> for interconnection of Generator, Generator Circuit Breaker, Isolator & Generator Transformer along with all accessories & auxiliaries as described in the Tender Specification.	1	Set		
<b>C</b>	<b>SEGREGATED PHASE BUS DUCT 6.6 kV (Lump sum rate )</b>					
	C.1	Transportation from stores / storage yard to erection site, assembly, erection, welding, testing & commissioning of <b>SEGREGATED PHASE BUS DUCT (6.6 KV )</b> for interconnection of UAT TO 6.6 KV UNIT SWITCHGEAR , STATION SWITCHGEAR AND TIE DUCTS BETWEEN SWGR , Approx 95 Enclosures of size ( 400 (H) X 1200 (B) ( Total length 300 Mtrs (Approx), along with all Structures (Approx 8.0 MT) and Misc accessories( Approx 1.0 MT) and Other details as described in the Tender Specification.	1	Set		
<b>D</b>	<b>6.6 kV INDOOR SWITCHGEAR. EACH BOARD CONSISTING OF VACUUM</b>					
	D.1	Unit Switchgear Board 3CA : consists of 19 panels, in 10 shipping sections. Overall dimension <b>15580</b> x 2651 x 2692. Each shipping section 3.0 MT approx ( Approx Total weight 30400 Kgs)	1	Set		
	D.2	Unit Switchgear Board 3CB : consists of 19 panels, in 10 shipping sections. Overall dimension <b>15580</b> x 2651 x 2692. Each shipping section 3.0 MT approx ( Approx Total weight 30400 Kgs)	1	Set		
	D.3	Unit Switchgear Board 4CA : consists of 19 panels, in 10 shipping sections. Overall dimension <b>15580</b> x 2651 x 2692. Each shipping section 3.0 MT approx ( Approx Total weight 30400 Kgs)	1	Set		
	D.4	Unit Switchgear Board 4CB : consists of 19 panels, in 10 shipping sections. Overall dimension <b>15580</b> x 2651 x 2692. Each shipping section 3.0 MT approx ( Approx Total weight 30400 Kgs)	1	Set		
	D.5	Unit Switchgear Board OCA : consists of 11 panels, in 06 shipping sections. Overall dimension <b>9020</b> x 2651 x 2692. Each shipping section 3.0 MT approx ( Approx Total weight 17600 Kgs)	1	Set		
	D.6	Unit Switchgear Board OCB : consists of 12 panels, in 6 shipping sections. Overall dimension <b>9840</b> x 2651 x 2692. Each shipping section 3.0 MT approx ( Approx Total weight 19200 Kgs)	1	Set		
	D.7	Unit Switchgear Board OCB : consists of 17 panels, in 09 shipping sections. Overall dimension <b>13940</b> x 2651 x 2692. Each shipping section 3.0 MT approx ( Approx Total weight 27200 Kgs)	1	Set		

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SEC	SI No / DESCRIPTION		QTY	UOM	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
E	TRANSPORTATION FROM STORES/ STORAGE YARD TO ERECTION SITE, ASSEMBLY, ERECTION, TESTING & COMMISSIONING OF 415 V LT SWITCH GEAR BOARDS / MCC, DOUBLE FRONT / SINGLE FRONT, COMPRISES OF AIR CIRCUIT BREAKERS, PT PANELS, AUX. TRANSFORMER PANEL, TRUNKING CUBICLE etc.					
	E.1	415 Volt LT TURBINE MCC, Double Front, 3KA & 4KA, Overall dimensions 9700 x 1200 x 2400 mm, Total weight 9.6 MT / MCC, Panel shall be supplied in loose shipping section. One board in each unit.	2	Nos		
	E.2	415 Volt LT TURBINE VALVE MCC, Single / Double Front, 3KB & 4KB. Overall dimension 8220 X 0560 X 2300 mm, Total weight 8.0 MT(Approx), Panel shall be supplied in loose shipping sections. One board in each unit.	2	Nos.		
	E.3	415 Volt UNIT ACDB ,Single / Double Front, Over all dimensions 10760 X 0560 X 2300 mm, Total weight 10.4 MT (Approx), Panels shall be supplied in loose shipping section. One board in each unit.	2	Nos.		
	E.4	Unit PCC -1 & UNIT PCC-2, Over all dimension 11720X 1360X2300 mm, Total weight 12 MT(Approx), Boards shall be supplied in loose shipping sections. One board in each unit.	2	Nos.		
	E.5	415 Volt STATION PCC, Single / Double- front,Overall dimension 10140X 1360 X 2300 mm, Total weight 9.5 MT(Approx) , shall be supplied in loose shipping section.	1	Nos.		
	E.6	415 Volt COMMON SERVICE PCC, Single / Double- front,STN PCC, Overall dimension 8770 X 1360 X 2300 mm, Total weight 8.5 MT(Approx) , shall be supplied in loose shipping section.	1	Nos.		
	E.7	NORMAL / EMERGENCY MCC, Overall Dimensions 6300 X 1200 X 2400 MM,Total weight 6.0 MT(Approx),One Board in each Unit, shall be supplied in loose shipping section	2	Nos.		
	E.8	AC EMERGENCY SWGR MCC , Overall Dimensions 6490 X 1120 X 2300 mm,Approx weight 6.8MT, shall be supplied in loose shipping section	1	Nos.		
	E.9	220 Volt DC DISTRIBUTION BOARD # 3FA & 4FA, Overall dimension 9000x 0560 x2300 mm,Total Weight 9.0MT(Approx), shall be supplied in loose shipping sections. One Board in each Unit.	2	Nos.		
	E.10	220 Volt DC DISTRIBUTION BOARD ( DP STN), Overall dimension 4500 x 0560 x2300 mm,Total weight 4.5 MT(Approx), shall be supplied in loose shipping sections. Common for both the units.	1	Nos.		

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SEC	SI No / DESCRIPTION	QTY	UOM	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)	
	E.11 415 Volt LT Boiler MCC, Double front, # 3HA & 4HA Over all dimension 11700X1200X2400 MM , Total WT 11.5 MT (Approx), shall be supplied in loose shipping section. One Board in each unit.	2	Nos.	10		
	E.12 415 Volt LT Boiler Valve and Damper MCC, Double Front, # 3HB & 4HB Over all dimension 3520X0560X2300 mm, Total WT 3.5 MT( Approx), Panel shall be supplied in shipping section. One board in each unit.	2	Nos.			
	E.13 415 Volt Fire Water Switchgear Board , over all dimensions 6100 x 1200 x 2400 mm, Total WT 6.5 MT (Approx). Shall be supplied in loose shipping section. Common for both the unit. ( Fire water pump house building)	1	No.			
	E.14 415 Volt Fuel Oil Pump House Double front, MCC , Over all dimensions 6300 x 0800 x 2400 mm. Total weight 6.5 MT(Approx), shall be supplied in loose shipping sections. Common for both the unit. (Oil Pump House Building)	1	No.			
	E.15 415 volt DM & WTP MCC, Double Front, MCC, Over all dimensions 11700 X 1200 X 2400 mm, Total weight 10.5 MT(Approx), Shall be supplied in loose shipping section. Common for both the unit.	1	No.			
	E.16 415 Volt Main Plant Air Conditioner Double front MCC # OTA , Overall dimension 7900 x 1200 x 2400 mm , Total Weight 7.7 MT (Approx), shall be supplied in loose shipping section, Common for both the Units.	1	No.			
	E.17 415 Volt Service Building Air Conditioner , Double front MCC # OTB Overall dimension 6300 X 1200 X 2400 mm, Total weight 6.5 MT (Approx) , shall be supplied in loose shipping section. Common for both Units	1	No.			
	E.18 415 Volt Ventilation MCC Double front MCC # 3TA & 4TA Overall dimension 6300 x 1200x 2400 mm , Total Weight 6.5 MT (Approx) shall be supplied in loose shipping section. One MCC in Each Unit.	2	No.			
	E.19 415 Volt Ash Water Recovery PCC Double front , Overall dimension 6100 x 1200x 2600 mm , Total Weight 6.5 MT (Approx) shall be supplied in loose shipping section. One common PCC for both Units.	1	No.			
	E.20 415 Volt COOLING TOWER PCC Double front , Overall dimension 7780 X 1360 X 2300 mm , Total Weight 7.7 MT (Approx) shall be supplied in loose shipping section. One PCC for each Unit.	2	No.			

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SEC	SI No / DESCRIPTION	QTY	UOM	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)	
	E.21 415 Volt Ash Handling PCC Double front , Overall dimension 10400 x 1200 x 2600 mm , Total Weight 11.7 MT (Approx) shall be supplied in loose shipping section. One PCC for each Unit.	2	No.			
	E.22 415 Volt ADM BLDG PCC Double front , Overall dimension 6300 x 1200x 2600 mm , Total Weight 7.5 MT (Approx) shall be supplied in loose shipping section. One common PCC for both Units.	1	No.			
	E.23 415 Volt WTP PCC Double front , Overall dimension 8000 x 1200x 2600 mm , Total Weight 8.5 MT (Approx) shall be supplied in loose shipping section. One common PCC for both Units.	1	No.			
	E.24 F. 415 Volt Cooling Water MCC, Single / Double front , Overall dimension 3600 x 0800x 2400 mm , Total Weight 3.5 MT (Approx) shall be supplied in loose shipping section. One common MCC for both Units.	1	No.			
	E.25 415 Volt H2 GENERATION MCC, Single / Double front , Overall dimension 3600 x0800x 2400 mm , Total Weight 3.5 MT (Approx) shall be supplied in loose shipping section. One common MCC for both Units.	1	No.			
	E.26 415 Volt Canteen MCC, Single/Double front , Overall dimension 1800 x 0800 x 2400 mm , Total Weight 1.7 MT (Approx) shall be supplied in loose shipping section. One common MCC for both Units.	1	No.			
	E.27 415 Volt WORKSHOP DB, Single/ Double front , Overall dimension 17600 x 0560x 2300 mm , Total Weight 17.7 MT (Approx) shall be supplied in loose shipping section. One common DB for both Units.	1	No.			
	E.28 415 Volt RECEPTACLE DB, Single/ Double front , Overall dimension 17600 x 0560x 2300 mm , Total Weight 17.7 MT (Approx) shall be supplied in loose shipping section. One common DB for both Units.	1	No.			

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SEC	SI No / DESCRIPTION			QTY	UOM	UNIT RATE (Rs.)
						TOTAL AMOUNT (Rs.)
F	NON SEGREGATED LV 415 VOLT BUSDUCTS Transportation of material from Stores/ storage yard to erection site, Erection, Assembly, Testing & Commissioning of NSP BUS DUCTS for interconnection between service transformer and LT MCC.					
	F.1	415 Volt LT Interconnecting NON SEGREGATED BUS DUCT between LT Power Oil Filled Transformer of (2000 KVA / 1600 KVA /1000 KVA, 11 & 6.6 KV rating . Total length of all 15 bus duct is 125 mtrs (approx) Typical cross section 500 x 1000, Weight 150 kg/mtr (approx) loose items like silicagel breather pipe, GI channel supports and associated accessories. <b>Average Length of one busduct (125/15= 8 mtrs approx)</b>	15	set		
G	DIGITAL STATIC EXCITATION SYSTEM TRANSPORTATION FROM STORES / STORAGE YARD TO ERECTION SITE, ASSEMBLY, ERECTION, TESTING, & COMMISSIONING OF DAVR EXCITATION SYSTEM					
	G.1	Transportation from store / storage yard to erection site , Erection, Assembly, Testing & Commissioning of <b>Digital AVR Excitation Equipments / System</b> , System consist of Regulation / Thyristor / field suppression panels( 2250 X 800 X2415 MM) & Interpanel looping and associated cables upto Main Exciter / PMG and accessories as per tender specification.	2	Set		
H	VARIABLE FREQUENCY DRIVE SYSTEM					
	H.1	Transportation from stores / storage yards to erection site, erection, assembly, testing & commissioning of <b>VARIABLE FREQUENCY DRIVE SYSTEM FOR ID FANS</b> consist of VFD Panels (2500X600X1800MM), Transformers (2.1 MVA, 7500 KGS), Brake Resistor Panels(1000X800X1300MM, 250 KGS), Vacuum Breakers( 1800X1800X2400MM, 1000KGS) and associated accessories, Interpanel cabling/ looping cables supplied alongwith system. As described elsewhere in tender specification.	4	Set		

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SEC	SI No / DESCRIPTION		QTY	UOM	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
I	GENERATOR, GT, ST & UAT PROTECTION & METERING PANELS,: TRANSPORTATION FROM STORES / STORAGE YARD TO ERECTION SITE, ASSEMBLY, ERECTION, TESTING, & COMMISSIONING OF GRP / SRP ETC					
	I.1	Transportation from stores / storage yard to erection site, erection, integrated electrical testing & commissioning (which comprises of relay testing, functional checks of control / protection circuit etc )of <b>Generator, Generator Transformer, Unit Auxiliary Transformers</b> , "Control / Protection & Metering Panels", Over all dimension of each panels 1000x1000x2295 mm, approx weight 750 Kg each Panel. Four panels / Unit.	8	Nos		
	I.2	AC Control supply panel (ACCSP) consisting of transformers, changeover system, modules, etc. approx weight 3 MT	2	No		
	I.3	DC Control supply panel (DCCSP) consisting of changeover system, modules, etc. approx weight 0.5 MT	2	No		
	I.4	DC motor starter panels, etc (DC JOP, DC EOP, Seal oil panel, DC Scanner Air Fan Starter Panel), including resistance boxes. Approx weight 0.5 MT each.	8	Nos		
J	SOOT BLOWER SYSTEM ::TRANSPORTATION FROM STORES / STORAGE YARD TO ERECTION SITE, ASSEMBLY, ERECTION, TESTING, & COMMISSIONING OF 415 VOLT ELECTRICAL SYSTEMS OF SOOT BLOWERS COMPRISING OF SOOT BLOWER LOCAL STARTER BOXES, LOCAL POWER DISTRIBUTION BOXES WITH ACCESSORIES ALONG WITH COMMISSIONING OF THE SOOT BLOWERS (ERECTION OF THE SOOT BLOWERS EXCLUDED FROM THIS CONTRACT)					
	J.1	Soot Blower Motor Control Center, double front, overall dimension 8000(W)x2400(H)x800(D), WT 12T, shall be supplied in eight to ten	1	Set		
	J.2	Testing and commissioning of soot blower control panel, including mounting of mimic	1	Set		
	J.3	Testing & Commissioning of Wall, Long Retractable, Air Heater Soot Blower	108	No		
	J.4	Testing & Commissioning of Furnace temperature probe (including solenoids, thermocouple, etc)	2	No		

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SEC	SI No / DESCRIPTION	QTY	UOM	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)	
K	<b>ELECTROSTATIC PRECIPITATOR SYSTEM, Transportation of material from Stores/ storage yard to erection site, Erection, Assembly, Testing &amp; Commissioning of ELECTROSTIC PRECIPITATOR SYSTEM.</b>					
	K.1 <b>ESP PCC-1 &amp;2 (LT Main Switch Boards)</b> , Overall dimensions 7000 X 1700/600 X 2450 mm, Weight of each board 7.0 MT, and supplied in loose shipping sections. ONE boards per unit.	2	Nos			
	K.2 <b>Auxiliary Control Panel</b> , Overall Dimension 5600 x 1000 x 2450 mm, Weight of each panel 5.0 MT and supplied in loose shipping sections. TWO boards per unit.	4	Nos			
	K.3 <b>Electronic Controller Panel</b> , Overall dimensions 700X650X2080mm, Weight of each panel 0.3MT. BAPCON & OTHER Electronic modules / rotary switches, etc along with cables and connectors, shall be supplied loose for mounting in the panel at site	28	Nos			
	K.4 <b>RAPPER CONTROL PANEL</b> Overall dimension 1000X650X2050 mm, Weight of each panel 0.3 MT. 4 Nos. RAPCON Electronic modules for each panel (along with cables connectors ) size 250 x200x200 mm shall be supplied loose for mounting in the panel at site	2	Nos			
	K.5 <b>IOS PC</b> , Computer Furniture, Data Logger PC, Printer -2 Nos. PC termination box, peripheral cables etc. APPROX WEIGHT 100 KG.	1	Set			
	K.6 Junction Boxes ( Power) 600x280x515 mm approx.	32	Nos			
	K.7 Junction Boxes ( Power) 450x150x300 mm approx.	12	Nos			
	K.8 Junction Boxes (Control) 250 x150 x400 mm approx	28	Nos			
	K.9 <b>Ash Level Indicator</b> comprising of level probe with extension lagging pipe, Electronic Unit, Interconnecting Cabling, Conduit, etc.	128	Set.			
	K.10 <b>Start Stop Push Button Station</b> Dimensions 180x100x250 mm weight 5 Kg	60	Nos.			
	K.11 <b>Thermostats</b> including Calibration.	36	Nos.			
L	<b>ELECTRICAL HOIST DSL CABLE TRAILING SYSTEM Transportation of material from Stores/ storage yard to erection site, Erection, Assembly, Testing &amp; Commissioning of misc. Electrically Operated Hoist for ID, FD, PA Fans, Coal Mills, ESP etc.</b>					
	L.1 The hoist work comprises, erection, Testing Commissioning of Switch Fuse Unit, Cable Guide Trolley, Dog chain or Angle / I beam support arrangement, Real Insulators, Limit Switches , Trailing Cable, Testing of Control Panel, Motor and Assitance during Final Load test as described elsewhere in Tender.	28	Nos			



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SEC	SI No / DESCRIPTION	QTY	UOM	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)	
M	DC BATTERY SYSTEM ( 220 V DC AND 24 VOLT DC SYSTEM Transportation of material from Stores/ storage yard to erection site, Erection, Assembly, Testing & Commissioning of 220 VOLT BATTERY / BATTERY CHARGER, 24 VOLT BATTERY / BATTERY CHARGER FOR SG , TG&STATION C&I.FOPH,CWPH ETC.					
	M.1	220 Volt DC Float Cum Boost Chargers Approx Size 1600 x 1000 x 2000 mm , Approx Weight 3500 Kgs	4	Nos		
	M.2	220 Volt, STATION DC Battery System, Each set comprises of Battery system. (110 nos, 2.1 volts., Each cell Dimentions 350 x 195 x 350 mm) , Battery Shall be mounted on teak wood still age & loose accessories such as inter cell / stack connectors etc shall be supplied loose. (Approx Weight Per Set 4865 Kgs) Details given in tender elsewhere.	1	Sets		
	M.3	220 Volt,UNIT DC Battery System, Each set comprises of Battery system. (170 nos, 1.2 volts., Each cell Dimentions 520 x 195 x 405mm) , Battery Shall be mounted on teak wood still age & loose accessories such as inter cell / stack connectors etc shall be supplied loose. (Approx Weight Per Set 10100 Kgs) Details given in tender elsewhere.	2	Sets		
N	MISC. ITEMS :					
	N.1	Junction Boxes (12WAY, 24WAY, 48WAY, 64WAY ETC.)	50	Nos.		
	N.2	220 Volt DC Fuse Board of assorted size	4	Nos.		
	N.3	24 Volt DC Fuse Board of assorted size	4	Nos.		
	N.4	AC Fuse Distribution Boards of assorted size	20	Nos.		
		Local Start / Stop Push Buttons 300x200x150mm	1100	Nos.		
	N.6	Structural Steel fabrication & installation ( MS angle, Channel, Plate etc)	42	MT		
P	ONLY TESTING & COMMISSIONING					
	P.1	Hopper Heater, Support Insulator Heater, Shaft Insulator Heaters for ESP	908	Nos.		
	P.2	High Voltage Rectifier Transformers (70 KV peak, 1200 mA) including oil filtration.	28	Nos.		
	P.3	Electrically (LT) Operated Valves, Dampers and Gates with Actuators, Limit Switches etc. (Regulating & ON/OFF Type).	495	Nos.		
	P.4	Oil Centrifuge (includes erection of only Control panel / board and loop cabling)	2	Nos.		
	P.5	Testing and commissioning of 6.6 KV and 2.4 KV HT motors including dryout	40	Nos		

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SEC	SI No / DESCRIPTION		QTY	UOM	UNIT RATE (Rs.)	TOTAL AMOUNT (Rs.)
	P.6	Testing of Generator Like IR/PI Value, Wdg Resistance, Rotor DC Resistance & Impedance checks/Testing of Generator & Exciter Heater / stroboscope / Testing of Exciter / PMG etc and Assistance during Integrated Testing .	2	Sets		
	TOTAL AMOUNT IN FIGURES:				Rs.	
	TOTAL AMOUNT IN WORDS:					
	Place:		for M/s			
	Date :					