

TENDER ENQUIRY FOR ELEVATORS FOR 2X800MW TANGEDCO NORTH CHENNAI TPS, STAGE-III

Date: 18.03.2017

CORRIGENDA-1

Tender Enquiry no.: PE/PG/TAN/E-5497/2016 Dated 07.03.2017

DUE DATE
29-MAR-2017
10:00 AM IST

1. Price format for submission of part-2(price) bids has been revised. All bidders are requested to submit their prices in the revised format as enclosed

With Regards, For & on behalf of BHEL

(Isha Rawat) Sr Engineer/PG-II-1/ BHEL-PEM

Enclosures: 1) Annexure-A for Indian Bidders 2) Annexure-B for Foreign Bidders

Please reply to: Isha Rawat, Sr Engineer PG-II-1

Power Project Engineering Institute Building HRD & ESI Complex Plot No. 25, Sector -16 A, BHEL-PEM,Noida-201301 (U.P.) Tel No. 0120-4213577/4368519, Fax: 0120-4329106

Page 1 of 1

							PROJECT: 1X800MW			STG-III										
						,	I TENDER ENQUIRY No. F	PACKAGE: ELEVATO		02 2017										
								T FOR FOREIGN BI		03.2017										
								ANNEXURE-B												
						IMPORTED ITEMS (Supply not from India	n Territory)				INDIGENEOUS ITEM	AS (Supply from Indi	an Territory)		TOTAL		E&C		GRAND TOTAL
S. No.	Description	UNIT	QTY	TOTAL F.O.B. Price (including handling and transportation to Vendor's own port.) (Currency)	Ocean Freight (Currency)	Ocean / Marine Insurance	Total C&F price (Mumbai/Chennai Port) (Currency)	Custom Duty after availing CENVAT benefit if applicable (INR)	Inland FREIGHT CHARGES (INCLUDING SERVICE TAX) (INR)	F.O.R. site Imported Items supply price (Currency + INR)	TOTAL EX- WORKS PRICE (INR)	ED @% (for self manufactured items only) (INR)	form & E1/E2 or VAT @% Whichever is		TOTAL F.O.R SITE PRICE (INR)	Total FOR Site IMPORTED + INDIGENOUS SUPPLY [(Currency+INR) +INR]	E & C (INR)	SERVICE TAX @ % %	E & C INCLUDING SERVICE TAX (INR)	Total Lumpsum price for supply [IMPORTED + INDIGINEOUS SUPPLY] and E&C with Service tax. {[(Currency+INR}+INR]+INR]
1	2	3	4	5	6	7	8=5+6	9	10	11=SUM(8 TO 10)	12	13	14	15	16=SUM(12 TO 15)	17=11+16	18	19	20=18+19	21=17+20
1.0	Teld lamp sum fine price inclusion of all prevailing taxes, ducies and other Weeks for CUPRY YAMY, SGIVICE YAMT & MAMDATORY SMIRES Comparing of displaying (a preparation and humbrains of divaring (incluments including) of dublish drawing and OBM manual), regimeering manufasture, fabrication, assembly, inspection / testing at vender's & sub- vender's works, participant manufasture, fabrication, assemble), fill of lubrications & consumbles, mandatory sparse (if applicable) alongwith sparse for erection, startup and commissioning as required, forwarding, proper packing, shipment and delward y state, unloading, mainding, transportation & staregat site, in-site transportation, assembly, minor civil works, erection & commissioning, trial run at ite, preparation of drawings in 30 (if applicable) and carrying out applicable) alonguite of the state large efficience of drawings in 30 (if applicable), and carrying out applicable). A final handing over the efficience of the state specification, assembly, minor civil and according out the state specification of contentric/ellow (MA staff (if applicable) along over the end customer in travelses condition for project and package-specification, amendment & agreements tell placement of order.	Lot	1			BY BHEL									15)					
2	MAJOR BREAK-UP OF PRICES GIVEN IN 1.0 ABOVE.																			
2.1	Total lump sum firm price inclusive of all prevailing taxes, duties and other loves for SUPPEY part comprising of design inclusion and mixing of devision (documents including "A ball" drawing and OABM manual), cimitence tools datales (la supplication assembly, inspection / testing at vendor's & sub-vendor's work, painten, maintenance tools & datales (la supplication assembly, inspection / testing at vendor's & sub-vendor's work, paintenance tools & datales (la supplication) assembly, inspection / testing at vendor's & sub-vendor's work, paintenance tools & datales (la supplication) assembly, inspection of testing at vendor's & sub-vendor's work, paintenance tools & datales (la supplication) and the supplication of the supplication of testing at the supplication of the supplication of the supplication of the supplication of testing at the supplication of the supplication of testing at the supplication of the	No.	1			BY BHEL														
2.2	Tetal lump sum firm price inclusion of all prevailing taxes, duites and other fives for SUPPY part comprising of design is, preparation and submission of darway (documents including "A shill draways and OAM manual), emperence, manufacture, fabrication, assembly, impection / teting at vendor's & sub-vendor's work, painting, maintenance tools & takes (la sapplicable), fill of lubricates & nonumbelic-space for cerestion, startup and Commissioning are arequired, forwarding, proper packing, himpment and delivery at site, preparation of drawings in 3D (if applicable) [<u>Break up a per</u> Announce): 8 Total lumpum firm prices inclusive of all prevailing taxes, duites and other levies for the <u>SERVICES</u> as specified, comprising disreve part for univability, finding, transportation & storage at site, in last transportation, samethy, minor dvi work, exection & Commissioning, final partiting at site, trial run at site, and carrying out performance garantee/functional/domentation to triat site (la Applicable), training discusses (land line) and periodes) & final handing over to end customer in flawlass condition of Elevator. (POR SERVECE SUMCING) for project and puckage specified dash complete with all accessories for the total scope diffield as per bits. Wit & Ender technical specification, mendment & agreements till placement of order.	Nos.	2			BY BHEL														
2.3	Teld lump um firm price inclusive of all prevailing taxes, duids and other twices for SUPRY parts comprising of design (e.g. preparation and submission of drawing (documents including 4 kulli drawing) and OAM manual), engineering, manufacture, fabrication, assembly, impection / testing at vendor's & sub-vendor's works, patients, maintenarce took & tacks(ls (as gargitable), fill of lubricates is communable-system for erection, startup and commissioning at array forwarding, proper packing, shipment and delivery at site, preparation of drawings in 3D (if applicable). <u>Break-up as per</u> forwarding, proper packing, shipment and delivery at site, preparation of drawings in 3D (if applicable). <u>Break-up as per</u> Total lumpum firm prices inclusive of all prevailing taxes, duites and other levies for the SERVICES as specified, comprising of service aftro or unloading, final patinting at site, trial run at site, and carrying out performance gazanteel/vicution/demonstration test as take (as Asplicable). Linsing of catalomer- field and the service of the project and package specified above complete with all accessives for the total scope defined as per BHEL NIT & lender technical specification, amendment & agreements till placement of order.	No.	1			BY BHEL														
2.4	Total lumpsum firm price inclusive of all prevailing taxes, duties and other levies for Mandatory spares comprising of manufacture, fabrication, assembly, inspection / testing (as applicable) at words's & sub-endor's applicable, for wordsing, proper, date applicable, applicable, and there are all because (TOR date testing) for a sub-endor and the sub-endors and an applicable and the sub-endors and an applicable provide the sub-endors and the sub-endors and an applicable for a sub-endors and an applicable and an applicable and applicable and applicable and applicable and applicable ap	Lot	1			BY BHEL														
2.5	Teld lumpum firm price includes of all prevailing taxes, durins and other invise for Mandeevanes computing of manufacture, thinking ion, suscendly, impaction (I return) (as a possibility) at ventor's Audoevanedra's works, painting, forwarding, proper packing, hipment, delivery at its & guarantee of Elevator (FOR SERVECE RUEDING) as per tender technical specification above, amendment & agreements till placement of order. (Price break up of mandatory sparse is to be furnished as per Annexure- B2).	Lots	2			BY BHEL														
2.6	Total lumpum firm price inclusive of all prevailing taxes, duties and other levies for Mandatory sparse comprising of manufasture, fishicition, sasembili, presention / testing (as appliciable) at vendor's varies, burhendor's works, painting, forwarding, proper packing, shipment, delivery at site & guarantee of Elevator (FOR ESP CONTROL ROOM BULDING) as ter inder technical pacellitation above, amendment & agreements till placement of order. (Price break up of mandatory sparse is to be furnished as per Amesure-83).	Lot	1			BY BHEL														

1) As proc. no. 3.0 of GCC Rev-06, Total erection & commissioning charges including service tax should be minimum 20% (or as specified in NIT) of the total quoted package price (excluding mandatory spares but including all taxes and freight), failing which the break-up ofprices shall be adjusted accordingly for ordering.



Particulars of bidder / authorised representative

Name, Designation, Date & Company Seal

PROJECT: 1X800MW TANGEDCO NORTH CHENNAI TPS , STG-III PACKAGE: ELEVATOR TENDER ENQUIRY No. PE/PG/TAN/E-5497/2016 DATED 06.03.2017

PRICE FORMAT FOR FOREIGN BIDDERS (Rev01)

L					XURE-I					-					
						6 (Supply not fro			T			TEMS (Supply from			TOTAL
S. No.	Description UOM	QTY	TOTAL F.O.B. Price (including handling and transportation to Vendor's own port.)		Ocean / Marine Insurance	Total C&F price (Mumbai/ Chennai Port) (Currency)	Custom Duty after availing CENVAT benefit if applicable	Inland FREIGHT CHARGES (INCLUDING SERVICE TAX) (INR)	F.O.R. site Imported Items supply price (Currency + INR)	TOTAL EX- WORKS PRICE (INR)	ED @% (for self manufactured items only) (INR)	CST @% Against C-form & E1/E2 or VAT @% Whichever is applicable (INR)		TOTAL F.O.R SITE PRICE (INR)	Total FOR Site IMPORTED + INDIGENOUS SUPPLY [(Currency+INR)+I
1	2 3	4	5	6	7	8=5+6	9	10	11=SUM(8 TO 10)	12	13	14	15	16=SUM(12 TO 15)	17=11+16
	BREAK-UP OF SUPPLY PRICES GIVEN IN 2.1 OF MAIN SHEET ANNX-B.														I
2.1	Sreak up of Total lump sum firm price inclusive of all prevailing taxes, duties and other leviss for SUPPIV part comprising of design (i.e. preparation and submission of drawing /documents including 'As Built' drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tacklets (as applicable), fill of lubricants & consumables, spares for erection, startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, G.A. drawings in 3D (As Lot applicable) (FOR To BuilDING) for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order. (Break-up as under)	1													
2.1.1	Car along with traction machine, Car landing door, VVVF drive and controller, LT Power Cable, Car Operating Panel (COP), Automatic Rescue Device (ARD), Air Conditioner/ Ventilation (as applicable), machine room lighting, Over Speed Governor (OSG), counter weight, buffer springs, Erection and Commissioning Spares etc.	1													
2.1.2	Landing doors, landing operating panel (LOP), door fixing arrangement etc. meeting total landing requirement Lot	1													
2.1.3	Rope, Trailing cable, guide rails for car and counter weight, guide brackets, anchor fasteners, Shaft Lighting, compensating chain (if applicable) meeting total travel requirement	1													L
2.1.4	Maintenance tools and tackles Lot	1													
NOTES	TOTAL (Should match with prices quoted against SI No. 2.1 of Main sheet for SUPPLY)														
2.2	BREAK-UP OF SUPPLY PRICES GIVEN IN 2.2 OF MAIN SHEET ANNX-B.														
	Break up of Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPUY part comprising of design (i.e. preparation and submission of drawing /documents including 'AB bitt' drawings and 0.8M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables, ispares for erection, startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, G.A. drawings in 3D (As Lot applicable) (FOR SERVICE BULLDBIO) for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order. (Break-up as under)	2													
2.2.1	Car along with traction machine, Car landing door, VVVF drive and controller, LT Power Cable, Car Operating Panel (COP), Automatic Rescue Device (ARD), Air Conditioner/ Ventilation (as applicable), machine room lighting, Over Speed Governor (OSG), counter weight, buffer springs, Erection and Commissioning Spares etc.	2													
2.2.2	Landing doors, landing operating panel (LOP), door fixing arrangement etc. meeting total landing requirement Lot	2													
2.2.3	Rope, Trailing cable, guide rails for car and counter weight, guide brackets, anchor fasteners, Shaft Lighting, compensating chain (if applicable) meeting total travel requirement Lot	2													
2.2.4	Maintenance tools and tackles Lot	2													
NOTES	TOTAL (Should match with prices quoted against SI No. 2.2 of Main sheet for SUPPLY)														
2.3	BREAK-UP OF SUPPLY PRICES GIVEN W 2.3 OF MAIN SHEET ANNX-8. Break up of Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY part comprising of design (i.e. preparation and submission of drawing /documents including "As Built" drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables, sparser for recrision, starup and commissioning as required, forwarding, proper packing, shipment and delivery at site, G.A. drawings in 30 (As applicable) (FOR ESP CONTROL ROOM BUILDING) for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order. (Break-up as under)	1													
2.3.1	Car along with traction machine, Car landing door, VVVF drive and controller, LT Power Cable, Car Operating Panel (COP), Automatic Rescue Device (ARD), Air Conditioner/ Ventilation (as applicable), machine room lighting, Over Speed Governor (OSG), counter weight, buffer springs, Erection and Commissioning Spares etc.	1													
2.3.2	Landing doors, landing operating panel (LOP), door fixing arrangement etc. meeting total landing requirement Lot	1													
2.3.3	Rope, Trailing cable, guide rails for car and counter weight, guide brackets, anchor fasteners, Shaft Lighting, compensating chain (if applicable) meeting total travel requirement Lot	1													
2.3.4	Maintenance tools and tackles Lot	1													
	TOTAL (Should match with prices quoted against SI No. 2.3 of Main sheet for SUPPLY)								1		-			-	
	cl. no. 3.0 of GCC Rev-06, Total erection & commissioning charges including service tax should be minimum 20% (or as specified in 1 and freight), failing which the break-up ofprices shall be adjusted accordingly for ordering.	NIT) of	the total quoted p	ackage price (e	excluding mar	datory spares b	ut including								

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Particulars of bidder / authorised representative

Name, Designation, Date & Company Seal

PROJECT: 1X800MW TANGEDCO NORTH CHENNAI TPS , STG-III PACKAGE: ELEVATOR TENDER RNGUR NO. PE/PG/TANJE-S497/J7 DATED 06.03.2017 ANNEXURE-B1 : PRICE FORMAT FOR FOREIGN BIDDERS (Rev01)

						IMPORTED ITEMS (Supply not from Indi	an Territory)				INDIGENEOU	S ITEMS (Supply from	n Indian Territory)		TOTAL
S. No.	Description	UOM	QTY (For each elevator)	TOTAL F.O.B. Price (including handling and transportation to Vendor's own port.) (Currency)	Ocean Freight (Currency)	Ocean / Marine Insurance	Total C&F price (Mumbai/Chennai Port) (Currency)	Custom Duty after availing CENVAT benefit if applicable (INR)	Inland FREIGHT CHARGES (INCLUDING SERVICE TAX) (INR)	F.O.R. site Imported Items supply price (Currency + INR)	TOTAL EX- WORKS PRICE (INR)	ED @% (for self manufactured items only) (INR)	CST @% Against C-form & E1/E2 or VAT @% Whichever is applicable (INR)	FREIGHT CHARGES INCLUDING SERVICE TAX) @% OF TOTAL EX-WORKS (INR)	TOTAL F.O.R SITE PRICE (INR)	Total FOR Site IMPORTED + INDIGENOUS SUPPLY [(Currency+INR)+I R]
1	2		3	5	6	7	8=5+6	9	10	11=SUM(8 TO 10)	12	13	14	15	16=SUM(12 TO 15)	17=11+16
1	Spares for Brakes	Sets (One set comprises of items as per SI. No-1.1 to 1.6)	4							10)					15)	
1.1	Brake Lining	No.	1													
	Brake Motor	No.	1													
1.3	Fixed Brake Disc	Set	1													
1.4	Rivets	Sets Set	2													
1.5	Bearings	Set	1													
	Sleeves if any Lift Car	361														1
	a) Car Door Guide Rollers	Sets	2													1
	Landing Door	1		l	İ		i i	l		l	l		i i	i i	1	1
	a) Rollers	Sets	2													
4	Machinery															
4.1	a) Set of Bearings	Set	1													
4.2	b) Packing Unit if any	Sets	2													
4.3 5	c) Bushing if any	Set	1													
5.1	Spare for Governor a) Bearing if any	Set	1													
5.2	b) Roller	No.	1													
5.3	c) Pin	No.	1													
6	Friction block	Nos.	6													
7	Guide roller of each type of type	5% of total populat whichever is h	lion or 1 no higher													
8	Contactors of each type	10% of total popula whichever is h	ition or 1 no higher													
	Control transformer	No.	1													
10	Time Device	No.	1													
11	Rectifiers	Nos. No.	3													
12 13	Over Current Relay Auxillary Relay	No.	1													
	Resistor	Nos.	3													-
15	Fuses	100 % of replacem	ent for 1 lift													
16	Limit Switches of each type	No.	1													
	Push Buttons	Nos.	5													
18	Contact Device	Nos.	5													
19	Lamp output	Nos.	5													
	Break Motor Transmitters	No. No.	1													+
	Switches of each Type	No.	1													1
	Receiver	No.	1													1
	Bearings of each Type & size	Nos.	2													
25	Roller of each type	Nos.	3													
	Sensor	No.	1													
27	Worm gear spares of each type															L
	a) O rings	Nos. Nos.	3													+
	 b) Sealing rings of each type Spares for Brake for each type 	INOS.	3													+
	a) Fan	No.	1													1
28.2	b) Magnetic Coil	Nos.	2													
	c) Brake Disc	No.	1													
	d) Brake Pad	Nos.	4													
29	Bushing (for door front)	Nos.	2													L
30 31	Pinion Indicating lamp	No. 100 % replace	1 ement													+
	Indicating lamp Motor starter	No.	ement 1													+
	TOTAL PRICE for 1 LOT (Sum SI no. 1 to 32)															

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PROJECT: 1X800MW TANGEDCO NORTH CHENNAI TPS , STG-III PACKAGE: ELEVATOR TENDER ROLURY NO. PE/PCO/TAN/E-5497/17 DATED 06 03 2017 ANNEXURE-B2 : PRICE FORMAT FOR FOREIGN BIDDERS (Rev01)

LIST OF MANDATORY SPARES FOR SERVICE BUILDING ELEVATORS I.e. TWO (02) LOTS.

					IN	PORTED ITEMS	Supply not from	Indian Territory)						n Indian Territor		TOTAL
S. No.	Description	UOM	QTY (For each elevator) 3	TOTAL F.O.B. Price (including handling and transportation to Vendor's own port.) (Currency) 5			Total C&F price (Mumbai/Chen nai Port) (Currency) 8=5+6		Inland FREIGHT CHARGES (INCLUDING SERVICE TAX) (INR) 10	F.O.R. site Imported Items supply price (Currency + INR) 11=SUM(8 TO 10)	TOTAL EX- WORKS PRICE (INR)	ED @% (for self	CST @% Against C-form & E1/E2 or VAT @% Whichever is applicable (INR) 14	FREIGHT CHARGES INCLUDING SERVICE TAX) @% OF TOTAL EX- WORKS (INR) 15	TOTAL F.O.R SITE PRICE (INR) 16=SUM(12 TO	Total FOR Sit IMPORTED 4 INDIGENOUS SUPPLY [(Currency+INF NR] 17=11+16
1	2		3	3	0	,	8-346	,	10	11-30/08/10 10)	12	13	14	15	16-30/4(1210	17-11+16
	pares for Brakes rake Lining	Sets (One set comprises of items as per SI. No-1.1 to 1.6) No.	4													
	rake Motor	No.	1													
	ixed Brake Disc	Set	1													
	ivets	Sets	2													
	earings	Set	1													
1.6 SI	leeves if any	Set	1													
2 Li	ift Car															
) Car Door Guide Rollers	Sets	2													
	anding Door) Rollers	Sets	2													
	1achinery	000	-													1
) Set of Bearings	Set	1													1
) Packing Unit if any	Sets	2													1
4.3 c)	Bushing if any	Set	1													
	pare for Governor															
) Bearing if any	Set	1													
) Roller) Pin	No.	1													
	riction block	Nos.	6													-
	uide roller of each type of type	5% of total populati whichever is h	on or 1 no													
8 Ci	ontactors of each type	10% of total populat whichever is h	ion or 1 no igher													
	ontrol transformer	No.	1													
	ime Device	No.	1													
	ectifiers	Nos.	3													
	iver Current Relay uxillary Relay	No.	1													
	esistor	Nos.	3													
	uses	100 % of replaceme														-
	imit Switches of each type	No.	1													
17 Pi	ush Buttons	Nos.	5													
	ontact Device	Nos.	5													
	amp output	Nos.	5													
	reak Motor	No.	1													+
	ransmitters witches of each Type	No. No.	1													+
	eceiver	No.	1													1
	earings of each Type & size	Nos.	2													1
25 Ro	oller of each type	Nos.	3													
	ensor	No.	1													
	Vorm gear spares of each type	Nos.														
) O rings	Nos.	3													
) Sealing rings of each type pares for Brake for each type	1905.	3													+
) Fan	No.	1													1
) Magnetic Coil	Nos.	2													1
28.3 c)	Brake Disc	No.	1													
) Brake Pad	Nos.	4													
	ushing (for door front)	Nos.	2													
	inion ndicating lamp	No. 100 % replace														+
	ldicating lamp lotor starter	No.	ment 1													1
	OTAL PRICE for 1 LOT (Sum SI no. 1 to 32)															
34 T	OTAL PRICE FOR 2 LOTS (SI no. 33 X 2)															

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PROJECT: 1X800MW TANGEDCO NORTH CHENNAI TPS, STG-III PACKAGE: ELEVATOR TENDER ENQUIRY NO. PE/PG/TAN/E-S497/17 DATED 06.03.2017 ANNEXUR-83 : PRICE FORMAT FOR FOREIGN BIDDERS (Rev01)

	COMPRISES OF MANDATORY SPARES AS LIST					IMPORTED ITER	MS (Supply not fron						US ITEMS (Supply from			TOTAL
				TOTAL F.O.B.	Ocean Freight	Ocean / Marine		Custom Duty after	Inland FREIGHT	F.O.R. site	TOTAL EX- WORKS		CST @% Against C-		TOTAL F.O.R SITE	Total FOR Site
				Price (including	(Currency)	Insurance	(Mumbai/Chennai	availing CENVAT	CHARGES	Imported Items	PRICE	manufactured	form & E1/E2 or VAT	INCLUDING SERVICE	PRICE	IMPORTED +
				handling and			Port)	benefit if	(INCLUDING	supply price	(INR)	items only)	@% Whichever is	TAX) @ %	(INR)	INDIGENOUS SUP
			QTY (For	transportation			(Currency)	applicable	SERVICE TAX)	(Currency +	()	(INR)	applicable (INR)	OF TOTAL EX-WORKS	()	[(Currency+INR)+
S. No.	Description	UOM	each	to Vendor's own			(currency)	(INR)	(INR)	INR)		(INN)	applicable (livit)	(INR)		[[currency+nvk/+i
			elevator)					(INK)	(invity)	inity				(INK)		
				port.)												
				(Currency)												
	2		3	5	6	7	8=5+6	9	10	11=SUM(8 TO 10)	12	13	14	15	16=SUM(12 TO 15)	17=11+16
1	2		3	,	0	'	8=340	,	10	11-30/4(8 10 10)	12	13	14		10-3010(121013)	17-11+10
		Sets (One set														-
		comprises of items														
1	Spares for Brakes	as per SI. No-1.1 to	4													
		1.6)														
	Brake Lining	No.	1													
	Brake Motor	No.	1													
	Fixed Brake Disc	Set	1													
1.4	Rivets	Sets	2													
1.5	Bearings	Set	1													
1.6	Sleeves if any	Set	1													I
2	Lift Car															
	a) Car Door Guide Rollers	Sets	2													1
	Landing Door			1												1
	a) Rollers	Sets	2					İ					i	i		1
4	Machinery							İ					i	i		1
4.1	a) Set of Bearings	Set	1													
4.2	b) Packing Unit if any	Sets	2													+
	c) Bushing if any	Set	1													+
4.5	Spare for Governor	281														
5.1		Set	1													
	a) Bearing if any		1													
	b) Roller	No.														
5.3	c) Pin	No.	1													
6	Friction block	Nos.	6													
7	Guide roller of each type of type	5% of total popula whichever is														
8	Contactors of each type	10% of total popul whichever is	ation or 1 no higher													
9	Control transformer	No.	1													
10	Time Device	No.	1													
	Rectifiers	Nos.	3													
	Over Current Relay	No.	1													
	Auxillary Relay	No.	1													
	Resistor	Nos.	3													
	Fuses	100 % of replacen														
16	Limit Switches of each type	No.	1													-
	Push Buttons	Nos.	5													-
	Contact Device	Nos.	5			1										+
10	Lamp output	Nos.	5													+
	Break Motor	No.	1			1										+
20	Transmitters	No.	1													+
21	Switches of each Type	No.	1													+
	Switches of each Type Receiver	No.	1													+
23	Receiver Bearings of each Type & size	No.	1													+
	Bearings of each Type & size Roller of each type	Nos.	2													+
																+
26	Sensor	No.	1													+
27	Worm gear spares of each type															+
	a) O rings	Nos.	3													+
	b) Sealing rings of each type	Nos.	3													+
28	Spares for Brake for each type															
	a) Fan	No.	1													
	b) Magnetic Coil	Nos.	2													+
	c) Brake Disc	No.	1													
28.4	d) Brake Pad	Nos.	4													
29	Bushing (for door front)	Nos.	2													
30	Pinion	No.	1													
31	Indicating lamp	100 % replace	ement													
32	Motor starter	No.	1													1
	TOTAL PRICE for 1 LOT (Sum SI no. 1															1
33	to 32)					1										1
							n the tender technic									



Date: 18/03/2017

				PACKAGE: ELEVA	TOR							
	TEND	DER ENQ	UIRY No	. PE/PG/TAN/E-54	97/2016 DATED 06.	03.2017						
		PR	ICE FOR	MAT FOR INDIAN I	BIDDERS (Rev01)							-
				ANNEXURE-A								
						SUPPLY	1			E&C		
S. No.	Description	UNIT	QTY	TOTAL EX- WORKS PRICE (INR)	ED @% (for self manufactured items only) (INR)	CST @% Against C- form & E1/E2 or VAT @% Whichever is applicable (INR)	FREIGHT (including service tax, if any) @ % of total Ex-works Price (INR)	TOTAL F.O.R SITE PRICE (INR) SUPPLY	E & C Price (INR)	Service Tax on E&C @% (INR)	TOTAL E & C PRICE INCLUDING SERVICE TAX (INR)	Total Lumpsum Price fo Supply and E&C (INR)
1	2	3	4	5	6	7	8	9= sum(5 to 8)	10	11	12=sum(10 to 11)	13=9+12
1.0	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART, SERVICE PART & MANDATORY SPARES comprising of design (i.e. preparation and submission of drawing /documents including "As Built" drawings and O&M manusi), engineering, manufacture, fibrication, assembly, inspection (Jesting at vedor's & sub-vedor's vortex, painting, manufamance tools & tackes (as applicable), lift of lubricants & consumables, mandatory spares (if applicable) alongwith spares for erection, startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, unloading, handling, transportation, & storage at site, in-site transportation, storage work, manufacture and and and and and and and and and and	Lot	1									
2	MAJOR BREAK-UP OF PRICES GIVEN IN 1.0 ABOVE.											
2.1	Total Imps sum firm price inclusive of all prevailing taxes, duties and other levies forSUPPLY part comprising of design (i.e., preparation and submission of drawing /documents including "AS Builty drawings and OBAM manual), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & comunables, sparse for erection, starup and commissioning as required, forwarding, proper packing, shipment and delivery at site, preparation of drawings in 3D (if applicable) <u>Bareak</u> <u>up as perf Annexure II</u> . & Total Iumpsum film prices inclusive of all prevailing taxes, duties and other levies for the SERVICES as specified, comprising of service part for unloading, handling, transportation & storage at site, in site transportation, assembly, minor civil works, erection & commissioning, final painting at test, trial und as its, and carring our performance guarantee/functional/bemonstration tests at site (As applicable), training of customer/client O&M staff (f applicable). Final handing over to end customer in flawless condition of Elevator; (POR TG BULIDMENG for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	No.	1									
2.2	Total Imps sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPV part comprising of design (i.e. preparation and submission of drawing /documents inclusive Stability drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackbes (as applicable), fill of lubricants & consumables, pares for erection, startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, preparation and drawing in the startup of the startup of the startup of the startup of the startup of the startup of drawing in 30 (f applicable) <u>Bireakk</u> Total Impsum firm prices inclusive of all prevailing taxes, duties and other levies for the SERVICES as specified, comprising of service part for unloading, handling, transportation & Storage at site, in site transportation, assembly, minor ovil works, erection & commissioning, final painting at site, triat una site, and carrying out performance guarantee/functional/Demonstration tests at site (As applicable), training of customer/client O&M staff (f applicable) & final handing over to and customer in flawless condition of Elevator; (FOR SERVICE BUIDING) for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	Nos.	2									
2.3	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY part comprising of design (i.e. preparation and submission of drawing /documents including '748 bulk' drawings and O&M manuala), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's sub-vendor's works, painting, maintenance took & tackes (as as policibile), fill of lubricants & consumables, sparse foor erection, startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, preparation of drawings in 3D (if applicable) <u>(Break-up as per Annexure I)</u> & Total lumpsum firm prices inclusive of all prevailing taxes, duties and other levies for the SERVICES as specified, comprising of service part for unloading, handling, transportation & storage at site, in site transportation, assembly, mior civil works, erection & commissioning, final painting at its, trial run at its, and carrying our performance guarantee/functional/periomstration tests at site (As applicable), training of customer/client O&M staff (d applicable) & final handing over to end customer in flawless condition of Elevator; (POR ESP CONTRO ROOM BUDING) for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order.	No.	1									
2.4	Total Impsum firm price inclusive of all prevailing taxes, duties and other levies for Mandatory spares comprising of manufacture, fabrication, assembly, inspection / testing (as applicable) at vendor's & sub-vendor's works, painting, forwarding, proper packing, shipment, delivery at site & guarantee of Elevator (FOR TG BUILDING) as per tender technical specification above, amendment & agreements till placement of order. (Price break up of mandatory spares is to be furnished as per Annexure-A1).	Lot	1									
2.5	Total lumpsum firm price inclusive of all prevailing taxes, duties and other levies for Mandatory spares comprising of manufacture, fabrication, assembly, inspection / testing (as applicable) at vendor's & sub-vendor's works, painting, forwarding, proper packing, shipment, delivery at site & guarantee of Elevator (FOR SERVICE BUIDING) as per tender technical specification above, amendment & agreements till placement of order. (Price break up of mandatory spares is to be furnished as per Annexure- A2).	Lots	2									
2.6	Total lumpsum firm price inclusive of all prevailing taxes, duties and other levies for Mandatory spares comprising of manufacture, fabrication, assembly, inspection / testing (as applicable) at vendor's & sub-vendor's works, painting, forwarding, proper packing, shipment, delivery at site & guarantee of Elevator (FOR SEP CONTROK LOROM BUIND) (as pare tredent technical specification above, amendment & agreements till placement of order. (Price break up of mandatory spares is to be furnished as per Annexure- A3).	Lot	1									

Particulars of bidder / authorised representative

Name, Designation, Date & Company Seal

	PACKAGE: E	LEVATO	R					
	TENDER ENQUIRY No. PE/PG/TAN/	E-5497	/2016 [DATED 06.03.2017				
	PRICE FORMAT FOR IND	IAN BID	DERS (Rev01)				
	ANNEXI	JRE-I						
						SUPPLY		
S. No.	Description		QTY	TOTAL EX- WORKS PRICE (INR)	ED @% (for self manufactured items only) (INR)	CST @% Against C-form & E1/E2 or VAT @% Whichever is applicable (INR)	FREIGHT (including service tax, if any) @% of total Ex-works Price (INR)	TOTAL F.O.R SITE PRIC SUPPLY (INR)
1	2	3	4	5	6	7	8	9= sum(5 to 8)
	BREAK-UP OF SUPPLY PRICES GIVEN IN 2.1 OF MAIN SHEET ANNX-A.							
2.1	Break up of Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY part comprising of design (i.e. preparation and submission of drawing /documents including "As Built" drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables, sparse for rerection, startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, G.A. drawings in 3D (As applicable) (FOR TG BULDING) for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order. (Break-up as under)	Lot	1					
2.1.1	Car along with traction machine, Car landing door, VVVF drive and controller, LT Power Cable, Car Operating Panel (COP), Automatic Rescue Device (ARD), Air Conditioner/ Ventilation (as applicable), machine room lighting, Over Speed Governor (OSG), counter weight, buffer springs, Erection and Commissioning Spares etc.	Lot	1					
2.1.2	Landing doors, landing operating panel (LOP), door fixing arrangement etc. meeting total landing requirement	Lot	1					
2.1.3	Rope, Trailing cable, guide rails for car and counter weight, guide brackets, anchor fasteners, Shaft Lighting, compensating chain (if applicable) meeting lotal travel requirement	Lot	1					
2.1.4	Maintenance tools and tackles	Lot	1					
NOTES	TOTAL (Should match with prices quoted against SI No. 2.1 of Main sheet for SUPPLY)							
	BREAK-UP OF SUPPLY PRICES GIVEN IN 2.2 OF MAIN SHEET ANNX-A.							
2.2	Break up of Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY part comprising of design (i.e. preparation and submission of drawing /documents including "As Built" drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables, spares for erection, startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, G.A. drawings in 3D (As applicable) (FOR SERVICE BUILDING) for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order. (Break-up as under)	Lot	2					
2.2.1	Car along with traction machine, Car landing door, VVVF drive and controller, LT Power Cable, Car Operating Panel (COP), Automatic Rescue Device (ARD), Air Conditioner/ Ventilation (as applicable), machine room lighting, Over Speed Governor (OSG), counter weight, buffer springs, Erection and Commissioning Spares etc.	Lot	2					
2.2.2	Landing doors, landing operating panel (LOP), door fixing arrangement etc. meeting total landing requirement	Lot	2					
2.2.3	Rope, Trailing cable, guide rails for car and counter weight, guide brackets, anchor fasteners, Shaft Lighting, compensating chain (if applicable) meeting lotal travel requirement	Lot	2					
2.2.4	Maintenance tools and tackles	Lot	2					
NOTES	TOTAL (Should match with prices quoted against SI No. 2.2 of Main sheet for SUPPLY)							
	BREAK-UP OF SUPPLY PRICES GIVEN IN 2.3 OF MAIN SHEET ANNX-A.							
2.3	Break up of Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY part comprising of design (i.e. preparation and submission of drawing /documents including "As Built" drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles (as applicable), fill of lubricants & consumables, spares for reerction, startup and commissioning as required, forwarding, proper packing, shipment and delivery at site, GA. drawings in 3D (As applicable) (FOR ESP CONTROL ROOM BUILDNG) for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order. (Break-up as under)	Lot	1					
2.3.1	Car along with traction machine, Car landing door, VVVF drive and controller, LT Power Cable, Car Operating Panel (COP), Automatic Rescue Device (ARD), Air Conditioner/ Ventilation (as applicable), machine room lighting, Over Speed Governor (OSG), counter weight, buffer springs, Erection and Commissioning Spares etc.	Lot	1					
2.3.2	Landing doors, landing operating panel (LOP), door fixing arrangement etc. meeting total landing requirement	Lot	1				Ì	
2.3.3	Rope, Trailing cable, guide rails for car and counter weight, guide brackets, anchor fasteners, Shaft Lighting, compensating chain (if applicable) meeting lotal travel requirement	Lot	1					
2.3.4	Maintenance tools and tackles	Lot	1	1	İ		1	
NOTES	TOTAL (Should match with prices quoted against SI No. 2.3 of Main sheet for SUPPLY)			1	1		1	

1) As per cl. no. 3.0 of GCC Rev-06, Total erection & commissioning charges including service tax should be minimum 20% (or as specified in NIT) of the total quoted package price (excluding mandatory spares but including all taxes and freight), failing which the break-up of prices shall be adjusted accordingly for ordering.

Particulars of bidder / authorised representative

Date: 18/03/2017

PROJECT: 1X800MW TANGEDCO NORTH CHENNAI TPS , STG-III PACKAGE: ELEVATOR TENDER ENQUIRY No. PE/PG/TAN/E-5497/2016 DATED 06.03.2017 ANNEXURE-A1 : PRICE FORMAT FOR INDIAN BIDDERS (Rev01)

S. No.	Description	UOM	QTY (For each elevator)	UNIT EX- WORKS PRICE (INR)	TOTAL EX- WORKS PRICE (INR)	ED @% (for self manufactured items only) (INR)	CST @% Against C-form & E1/E2 or VAT @% Whichever is applicable (INR)	FREIGHT (including service tax, if any) @% of total Ex- works Price (INR)	TOTAL F.O.F SITE PRICE (INR)
1	Spares for Brakes	Sets (One set comprises of items as per SI. No-1.1 to 1.6)	4						
1.1	Brake Lining	No.	1						
1.2	Brake Motor	No.	1						
1.3 1.4	Fixed Brake Disc Rivets	Set	1						
1.4	Bearings	Sets Set	1						
1.6	Sleeves if any	Set	1						
2	Lift Car	000							
2.1	a) Car Door Guide Rollers	Sets	2						
3	Landing Door								
3.1	a) Rollers	Sets	2						
4	Machinery	6.1							
4.1 4.2	a) Set of Bearings	Set	1						
4.2	b) Packing Unit if any c) Bushing if any	Sets Set	2						
5	Spare for Governor				<u> </u>				
5.1	a) Bearing if any	Set	1						
5.2	b) Roller	No.	1						
5.3	c) Pin	No.	1						
6	Friction block Guide roller of each type of type	Nos. 5% of total popu							
8	Contactors of each type	whichever i 10% of total popu	ulation or 1 no						
9	Control transformer	whichever i No.	s higher 1						
10	Time Device	No.	1						
11	Rectifiers	Nos.	3						
12	Over Current Relay	No.	1						
13	Auxillary Relay	No.	1						
14	Resistor	Nos.	3						
15 16	Fuses Limit Switches of each type	100 % of replace No.	ment for 1 lift						
17	Push Buttons	Nos.	5						
18	Contact Device	Nos.	5						
19	Lamp output	Nos.	5						
20	Break Motor	No.	1						
21	Transmitters	No.	1						
22	Switches of each Type	No.	1						
23	Receiver	No.	1						
24 25	Bearings of each Type & size Roller of each type	Nos. Nos.	2						
25	Sensor	No.	3						
27	Worm gear spares of each type								
27.1	a) O rings	Nos.	3						
27.2	b) Sealing rings of each type	Nos.	3						
28	Spares for Brake for each type								
28.1	a) Fan	No.	1						
28.2 28.3	b) Magnetic Coil	Nos.	2						
28.3	c) Brake Disc d) Brake Pad	No. Nos.	4			<u> </u>			
20.4	Bushing (for door front)	Nos.	2						
30	Pinion	No.	1			1			
31	Indicating lamp	100 % repla	acement						
32	Motor starter	No.	1						
33	TOTAL PRICE for 1 LOT (Sum SI no. 1 to 32)								

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TOTAL F.O.R SITE PRICE (INR)

PROJECT: 1X800MW TANGEDCO NORTH CHENNAI TPS , STG-III PACKAGE: ELEVATOR TENDER ENQUIRY No. PE/PG/TAN/E-5497/2016 DATED 06.03.2017 ANNEXURE-A2 : PRICE FORMAT FOR INDIAN BIDDERS (Rev01)

	ANDATORY SPARES FOR SERVICE BUILDING COMPRISES OF MANDATORY SPARES AS L							
S. No.	Description	UOM	QTY (For each elevator)	UNIT EX- WORKS PRICE (INR)	TOTAL EX- WORKS PRICE (INR)	ED @% (for self manufactured items only) (INR)	CST @% Against C-form & E1/E2 or VAT @% Whichever is applicable (INR)	FREIGHT (including service tax, if any) @% of total Ex- works Price (INR)
1	Spares for Brakes	Sets (One set comprises of items as per SI. No-1.1 to 1.6)	4					
1.1	Brake Lining	No.	1					İ
1.2	Brake Motor	No.	1					
1.3	Fixed Brake Disc	Set	1					
1.4	Rivets	Sets	2					
1.5	Bearings	Set	1					
1.6	Sleeves if any	Set	1					
2	Lift Car							
2.1	a) Car Door Guide Rollers	Sets	2					
3.1	Landing Door a) Rollers	Sets	2	-				
4	Machinery	Sets	2	-				
4.1	a) Set of Bearings	Set	1					1
4.1	b) Packing Unit if any	Sets	2					
4.3	c) Bushing if any	Set	1					
5	Spare for Governor							
5.1	a) Bearing if any	Set	1					
5.2	b) Roller	No.	1					
5.3	c) Pin	No.	1					
6	Friction block	Nos.	6					
7	Guide roller of each type of type	5% of total popu no whichever						
8	Contactors of each type	10% of total pop no whichever						
9	Control transformer	No.	1					
10	Time Device	No.	1					
11	Rectifiers	Nos.	3					
12	Over Current Relay	No.	1					
13	Auxillary Relay	No.	1					
14 15	Resistor Fuses	Nos. 100 % of replace	3 ement for 1					
		lift						
16 17	Limit Switches of each type	No. Nos.	1					
17	Push Buttons Contact Device	Nos.	5					
18	Lamp output	Nos.	5					
20	Break Motor	No.	1					1
20	Transmitters	No.	1					
22	Switches of each Type	No.	1					
23	Receiver	No.	1					
24	Bearings of each Type & size	Nos.	2					
25	Roller of each type	Nos.	3					
26	Sensor	No.	1					
27	Worm gear spares of each type							
27.1	a) O rings	Nos.	3					
27.2	 b) Sealing rings of each type 	Nos.	3	<u> </u>				
28	Spares for Brake for each type		ļ					
20.1	a) Fam	No	1 1	1			1	1

Note: Mandatory spares listed above is bare minimum requirement. In case any additional mandatory spares requirement is covered elsewhere in the tender technical specification, same shall be deemed to have been covered in bidders scope of supply.

No.

Nos.

No.

Nos.

Nos.

No. 100 % replacement

No.

1

2

1

4

2

1

1

felalamak

28.1 a) Fan

29

30

31

32

33 32)

34

28.2 b) Magnetic Coil

Bushing (for door front)

TOTAL PRICE for 1 LOT (Sum SI no. 1 to

TOTAL PRICE FOR 2 LOTS (SI no. 33 X 2)

Indicating lamp

Motor starter

 28.3
 c) Brake Disc

 28.4
 d) Brake Pad

Pinion

PROJECT: 1X800MW TANGEDCO NORTH CHENNAI TPS , STG-III PACKAGE: ELEVATOR TENDER ENQUIRY No. PE/PG/TAN/E-5497/2016 DATED 06.03.2017 ANNEXURE-A3 : PRICE FORMAT FOR INDIAN BIDDERS (Rev01)

S. No.	Description	иом	QTY (For each elevator)	UNIT EX- WORKS PRICE (INR)	TOTAL EX- WORKS PRICE (INR)	ED @% (for self manufactured items only) (INR)	CST @% Against C-form & E1/E2 or VAT @% Whichever is applicable (INR)	FREIGHT (including service tax, if any) @% of total Ex- works Price (INR)	TOTAL F.O.R SITE PRICE (INR)
1	Spares for Brakes	Sets (One set comprises of items as per SI. No-1.1 to 1.6)	4						
1.1	Brake Lining	No.	1						
1.2	Brake Motor	No.	1						
1.3	Fixed Brake Disc Rivets	Set	1						
1.4	Bearings	Sets Set	2						
1.6	Sleeves if any	Set	1						
2	Lift Car								
2.1	a) Car Door Guide Rollers	Sets	2						
3	Landing Door								
3.1	a) Rollers	Sets	2						
4	Machinery	<u>e</u> t	-				ļ		
4.1	a) Set of Bearings b) Packing Unit if any	Set Sets	1						
4.2	c) Bushing if any	Set	1						
5	Spare for Governor								
5.1	a) Bearing if any	Set	1						
5.2	b) Roller	No.	1						
5.3	c) Pin	No.	1						
6	Friction block	Nos.	6						
7	Guide roller of each type of type	5% of total population whichever is high							
8	Contactors of each type	10% of total population whichever is high							
9	Control transformer	No.	1						
10	Time Device	No.	1						
11 12	Rectifiers Over Current Relay	Nos. No.	3						
12	Auxillary Relay	No.	1						
14	Resistor	Nos.	3						
15	Fuses	100 % of replacemer	nt for 1 lift						
16	Limit Switches of each type	No.	1						
17	Push Buttons	Nos.	5						
18	Contact Device	Nos.	5						
19	Lamp output	Nos. No.	5						
20 21	Break Motor Transmitters	No.	1						
21	Switches of each Type	No.	1						
23	Receiver	No.	1						
24	Bearings of each Type & size	Nos.	2						
25	Roller of each type	Nos.	3						
26	Sensor	No.	1						
27	Worm gear spares of each type	N	2						
27.1 27.2	a) O rings b) Sealing rings of each type	Nos. Nos.	3						
27.2	Spares for Brake for each type								
28.1	a) Fan	No.	1						
28.2	b) Magnetic Coil	Nos.	2						
28.3	c) Brake Disc	No.	1						
28.4	d) Brake Pad	Nos.	4						
29	Bushing (for door front)	Nos.	2						
30	Pinion Indicating lamp	No. 100 % replacer	1 nont						
31 32	Indicating lamp Motor starter	No.	1						
	TOTAL PRICE for 1 LOT (Sum SI no. 1 to	INU.	<u> </u>						
33	32)						1		

Jehalamah.