		BIIL OF QUANTITY-01					
NAME OF	THE WORK	Loading ,shifting, installation with repai	and maintenance of one old				
		switchgear of type OCB of voltage grade	3.3KV	from MR	RSS to Kargal	i OCP, to	
		make them in operation in respect of Ka	Kargali OCP, B&K Area.				
		·		•			
				1	,	T	
SI. No.	Description		Qty	Unit	Rate/Unit	Amount	
	·	O OD CO OVELS AVEGG A			in Rs.	in Rs.	
1		ear type OCB of 3.3KV from MRSS site	1	No.			
	` -	s for loading shall be provided by the					
	agency) including i	novement of OCB in MRSS yard.					
2	Transportation of s	switchgear from MRSS to Gandhinagar	1	No.			
	-	ruck/ vehicle to be provided by the agency)					
	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,					
3	Unloading of switc	hgear at Gandhinagar Substation/ site as	1	No.			
	per instruction of E	Engineer In-Charge					
4	Penlacement of tri	pping coil 110V of standard make	1	No.			
4	Replacement of tri	pping con 110v of standard make	1	INO.			
5	Replacement of clo	sing coil 110V of standard make	1	No.			
6	Poplacement of ale	ctronic/ numerical type Earth Leakage	1	Set			
O	-	, , , , , , , , , , , , , , , , , , , ,	1	Set			
	relay operating at 1	1100 01305					
7	Supply & providing	g of Electronic type microprocessor for	1	Set			
	based O/C & E/F re	elay JVS					
				1			
8	Supply of push but	ton of suitable size (red/ green)	2	No.			
9	Supply of rotary sy	vitch for phase changeover/ Ammeter	1	No.			
		pole and 3 way with OFF)					
10	Replacement of mo	oving contact of suitable type as per sample	2	No.			
11	Replacement of fix	ed contact of suitable type as per sample	1	No.			
	P	Ar					
12	-	npere meter of suitable range as per	1	No.			
	sample size						
13	Replacement of Vo	ltmeter of suitable range as per sample	1	No.			
==	size						
14	_	tential Transformer (PT) of suitable type	1	No.			
	of minimum 100V	A 3.3KV/110V with PT Fuse					
15	Replacement of sui	table type Current Transformer (CT) of	3	No.			
13	Replacement of Sul			110.			

	ratio 100/50/5-5A			
16	Supply of ferrules, lugs and other accessories for connections	1	Set	
17	Replacement of primary Bushing insulator of 3.3 KV grade	3	No.	
18	Complete fixing of operating mechanism including washer, pin and other accessories	1	No.	
19	Labour charges including overhauling, fitting and fixing charges @10% of estimated price of Sl. No. 4 to 18	1	Job	
20	Complete overhauling, cleaning and painting of switchgear with standard paint	1	Job	
21	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil	6	cum	
22	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	2	cum	
23	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:3:6 (1 Cement: 3 coarse sand: 6 graded stone aggregate 20mm nominal size)	2	cum	
24	12 mm cement plaster finished with a floating coat of neat cement of mix: 1:4 (1 cement: 4 fine sand)	10	sqm	
25	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	10	sqm	
	GST@18%			
	Total inclusive of GST			

NAME OF	THE WORK	Repair maintenance, replacement, ere ect in different colonies like Rajendra of field quarry, banta file, maharani ma Kargali OCP, B&K Area.	colony, sv	weeper p	atti, uppera	dhawra,
SI. No.	Description		Qty	Unit	Rate/Unit in Rs.	Amount in Rs.
1	concrete 1:3:6 (1 cer aggregate 40 mm excavation and refill	ubular or rail pole strut in cement ment: 3 coarse sand: 6 graded stone nominal size) foundation including ing and secured with holding clamp, nuts etc. as required.	12	nos		
2	7/3.10 mm dia	ninium conductor of 7/1.96 mm to meter including binding etc. as ired(44x4x40x.214)	788	kg		
3	_	comprising of copper ,aluminium over vire cross arm, isulator etc as required	788	kg		
4	_	ged pole /strut embedded in cement oundation etc. as required	10	nos		
5	meter) cross arm for clamps, bolts, nuts an for insulator pins etc (a	on 75 mm X 40 mm X 6 mm (7.14 kg per 2 wire over head line complete with d washer etc including drilling of holes s per drawing) and painting with primer shed paint as required.	60	set		
6	with 19/20 mm dia X of size 45 cm X 45 cm buckle (20 mm X 60 c strain insulator etc in coarse sand: 6 gradeo	on of stay set complete (galvanised) 1.8 metres long stay rod, anchor plate 1.8 x 7.5 mm, thimble, stay clamps, turn 1.9 m), 7/3.15 mm dia G.I. stay wire and 1.1 cement concrete 1:3:6 (1 cement: 3 1.1 stone aggregate 40 mm nominal size 1.2 ding excavation and refilling etc. as 1.3 required.	14	set		
7	Handling of dismantl	ed pole and pole required for erection	10	nos		

	at site			
8	Supplying and erection of 100 mm X 110 mm shackle insulator with G. I. Bolt, nuts and straps etc. as required	160	set	
9	Supplying and erection of 100 mm X 65 mm pin insulator complete with G. I. Spindle and nuts etc. as required	80	set	
10	Supply and providing of 6 SWG GI wire	154.23	Kg	
11	Erection of GI wire no 8 SWG including binding etc as required	154.23	kg	
12	Erection of cradle guard as required	300	nos	
13	Providing and making steel pole collar with cement concrete 1:3:6 (1 cement: 3 coarse sand • 6 graded stone aggregate 20 mm nominal size) of specified size and shape including form work, plastering if specified size and shape including form work, plastering if required, curing etc as required.	7.2	cum	
14	Supply and erection of channel iron 75mm x40 mm x6mm(7.14kg/mtr) cross arm for 3 wire 11KV OH line complete with clamp bolts and for clamping to the pole 50mm x6mm MS flats welded on one side to the channel iron and with bolts and nuts on other side for tying the cross arm together ,including drilling of holes for insulator ,pins(as per drawing) and painting with primer and finish paint as required.	4	set	
	GST@18%			
	Total inclusive of GST			

NAME OI	F THE WORK	Repair & re-arrangement of Interlocking connected with respective switchgear under Kargali OCP.				colonies
SI. No.	Description		Qty	Unit	Rate/Unit in Rs.	Amount in Rs.
1	Providing & fixing of mo	unting plate for limit switch.	9	No		
2	Providing & fixing of SS	Enclosure.	7	No		
3	Providing & fixing of roll	er assembly DPDT bilet switch.	9	No		
4	Providing & fixing of Au	xiliary contractor.	7	No		
5	Providing & fixing of 2 x	2.5 sqmm wire.	242	Mtr		
6	Providing & fixing of ste	pped cable sealing gland.	6	No		
7	Providing & fixing of 201	nm medium class PVC conduit.	211	Mtr		
8	Erection, Commissioning	g & testing charges.	1	Job		
9	Supervision charge, Ove	rhead exp, tools and tackles and profit @ 15%	1	job		
	GST@18%					
	Total inclusive of GST					

NAME OF THE WORK		Fencing of 630 KVA transformer 3.3KV, under Kargali OCP, B&K Area	/415V ins	talled at	t Ambedkar (colony
Sl. No.	Description		Qty	Unit	Rate/Unit in Rs.	Amount in Rs.
1	Excavator)/ manual (not exceeding 1.5 m dressing of sides and including getting out	cion by mechanical means (Hydraulic means in foundation trenches or drains in width or 10 sqm on plan) including ramming of bottoms, lift upto 1.5 m, the excavated soil and disposal of surplus cted, within a lead of 50 m. All kinds of	13.46	13.46 cum		
2		n plinth with Jamuna sand under floors amming consolidating and dressing	3.46	cum		
3	grade excluding the o	n position cement concrete of specified ost of centering and shuttering - All work :6 (1 Cement : 3 coarse sand : 6 graded nm nominal size).	1.68	cum		
4		non burnt clay F.P.S. (non modular) bricks .0 in foundation and plinth in : Cement :: 6 coarse sand).	4.35	cum		
5	of class designation 5	non burnt clay F.P.S.(non modular) bricks .0 in superstructure above plinth level up shapes and sizes in : Cement mortar 1:6 (1 nd).	4.37	cum		
6	grade excluding the o	n position cement concrete of specified ost of centering and shuttering. All work :4 (1 cement : 2 coarse sand : 4 graded m nominal size).	6.44	cum		
7	removal of form for :	ring including strutting, propping etc. and Walls (any thickness) including attached plinth and string courses etc.	6.12	sqm		
8		riveted, bolted or welded in built up framed work, including cutting, hoisting,	548.9	Kg		

	fixing in position and applying a priming coat of approved steel primer all complete.			
9	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25 x 25mm made of G.I. wire of dia 3mm including strengthening with 2mm dia wire or nuts, bolts and			
	washers as required complete as per the direction of Engineer-in-charge.	109	sqmm	
10	Welding by gas or electric plant including transportation of plant at site etc. complete.	2500	cm	
11	12mm cement plaster of mix 1:6 (1 cement : 6 fine sand).	35.1	sqm	
12	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work.	151.08	sqm	
13	Finishing walls with water proofing cement paint of required shade: New work (Two or more coats applied @ 3.84kg/10sqm)	35.1	sqm	
	GST@18% Total inclusive of GST			

NAME OF	THE WORK	"Bush cutting trimming, trimming of tree and uprooted vegetation in 06 nos 3.3KV and 440 colony line, 220 lighting line and cleaning & dressing of installed transformer yard under jurisdiction of Kargali OCP in respect of Kargali OCP, B&K Area(Along HT & LT OH Line)				of
SI. No.	Description		Qty	Unit	Rate/Unit in Rs.	Amount in Rs.
1	brush wood, trees and at a height of 1M above	g uprooting of rank vegetation, grass, saplings of girth up to 30CM measured ground level and removal of rubbish outside the periphery of the area	32000	sqm		
2	ground level),including removing the roots and	h(measured at a height of 1m above cutting of trunks and branches, stacking of serviceable material and le material. "Beyond 30 cm girth upto th	250	each		
3	_	ground including removing vegetation sceeding 15cm deep and disposal of and lift up to 1.5 m.	3300	sqm		
	GST@18% Total inclusive of GST					

NAME OF	THE WORK	"Repair & preventive maintenance of t	he Horn gap fuse system of			
		3.3KV/440V at Subhash nagar, Jawaha	r nagar, R	ath Man	dir, Cretch h	nouse,
		Birsa nagar, Chandra pool, Ram nagar,	Anugrah	nagar ar	nd Bermo se	am under
		Kargali OCP.				
CI N			0.		Rate/Unit	Amount
SI. No.	Description		Qty	Unit	in Rs.	in Rs.
1	Supply, providing and gap switch.	fixing of 11KV post insulator for Horn	62	nos		
2	Supply and providing of 1.5 feet for making Hor	of copper flat (50 mm x 6mm) of length on of shape L.	62	nos		
3	Supply and fixing of insulators.	G.I. bolt for tightening of the post	248	nos		
4	Supply and fixing of bra	iss bolt for tightening of the Horn.	124	nos		
5	Supply and fixing of jumpering.	16 sqmm insulated copper wire for	54	meter		
6	6mm (7.14kg per metro 11KV overhead line co and nuts for clamping welded on one side to nuts on the other side including drilling holes and washers etc. (as p	ths of channel iron 75mm x 40mm x e) double pole cross arm for three wire inductors complete with through bolts of the poles, 50mm x 6mm N.S. flats to the channel iron and with bolts and de for tying the cross arms together, is for insulator pins/fittings, bolts, nuts per drawing) and painting with primer uired (+) Erection of double pole 3 wire CV/33KV overhead lines as required.	20	set		
	GST@18%					
	Total inclusive of GST					

		BIIL OF QUANTITY-07				
NAME OF	THE WORK	Repairing and maintenance of 440V, 4wire	-			
		cradling in Ghutiyatand village & kadma	dih villag	e in resp	ect of kargali	і ОСР
Sl. No.	Description		Qty	Unit	Rate/Unit in Rs.	Amount in Rs.
1	(1cement:3coarse and:6 g	or rail pole strut in cement concret 1:3:6 graded stone aggregate 40 mm nominal size excavation and refilling and secured with etc. as required.	7	Each		
2	Erection of all aluminum diameter including bindin	conductor of 7/1.96 mm to 7/3.10 mm g etc. as required.	625	Kg		
3	cross arm for 4 wire over and washer etc including	75mm X40 mm X6mm (7:14 KG per metre) head line complete with clamps, bolts nuts drilling of holes for insulator pins etc (as per h primer and finished paint as required.	23	set		
4	cross arm for 2 wire over and washer etc including	75mm X40 mm X6mm (7:14 KG per metre) head line complete with clamps, bolts nuts drilling of holes for insulator pins etc (as per h primer and finished paint as required.	16	Set		
5	Erection of angle iror /RCC/PCC/Steel tubular/R	n/ channel iron cross arm on wood ail pole etc. as required.	35	Set		
6	dia x1.8 mtr long stay ro thimble, stay clamps, turn stay wire and strain ins cement :3 Coarse sand :	ay set complete (galvanized) with 19/20 mm od , anchor plate of size 45 cm x7.5 mm, in buckle (20mm x60 cm) 7/4.00 mm dia Glosulator etc in cement concrete 1:3:6: (1 6 graded stone aggregate 40mm nominal excavation and refilling etc as required.	8	Set		
7	Transportation of pole to	site	6	each		
8	S/E of 100 mm x80 mm and nuts etc as required.	volt pin insulator complete with GI spindle	32	set		
9	Supplying and erection of Bolts, Nuts and straps etc.	100mm X80mm shackle insulator with G.I as required	22	set		
10	Supply and providing of 6	SWG GI wire	401	kg		

11	Supply and providing of 6 SWG including binding etc as required	401	kg	
12	Erection of cradle guard as required.	810	Each	
13	Dismantling ofver head lines comprising of copper/ aluminium over head conuctor, G.I Wire cross arms, insulators etc. as required	733	kg	
14	Dismantling of pole /street light standard / strut embedded in cement concrete foundation etc. as required.	6	Each	
15	Providing and fitting Clamps, bolts, nuts etc	26	set	
16	Dismantling of failed light fittings from pole	24	set	
17	Erection of light fitting on pole	24	set	
18	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.2x1.5 sq.mm	120	mtr	
19	Providing and fixing MV dange notice plate of 200 mm x150 mm, made of mild steel at least 2 mm thick and vitreous enameled white on both side, and with inscription in single red color on front side as required.	92	each	
20	Providing and making steel pole collar with cement concrete (1 cement: 3 coarse sand: 6 stone aggregate 20mm) of specified size and shape including form work, plastering if required, curing etc as required. (volume of pole/ pipe not to be deducted)	27	cum	
	GST@18%			
	Total inclusive of GST			

NAME OF	THE WORK	Installation cum Provision of monitorion Ampere in secondary side of distribution			_	
SI. No.	Description	,	Qty	Unit	Rate/Unit in Rs.	Amount in Rs.
1	Supply & providing of	of Volt meter Digital (500V).	12	No		
2	Supply & providing of	of Ampere meter Digital 5 Ampere.	12	No		
3	Supply & providing of C.T.		36	No		
4	Supply & providing of	of MCB 16 Ampere.	36	No		
5	Supply & providing of Indicator Red, blue & yellow.		36	No		
6	Supply & providing of	of 12" x 12" x 6" new box fitting.	12	No		
7	Supply & providing of	of connector.	12	No		
8	Rectification of contrasome materials, lugs	rol tripping circuit wiring including , clips, socket etc.	12	Set		
9	conduit along with a	of following sizes of medium class PVC ccessories in surface/recess including making good the same in case of required. 25 mm	42	Mtr		
10	insulated copper cor	ng following sizes of FRLS PVC ductor, single core cable in the existing eel/ PVC conduit as required.2x 2.5	240	Mtr		
11	Labour cost for competc. @15% of above	olete opening, fitting, checking at site (1 to 9)	12	Set		
12	•	th incidental charge, tools and tackles & etc. @15% of above (1 to 9 and 11)	12	Set		
	GST@18%					
	Total inclusive of GST					

A1444= 65	- TUE WORK	BIIL OF QUANTITY-09					
NAME OF THE WORK		Onsite preventive maintenance of 17 nos transformers including cleaning of sludge, transformer oil filtration and painting joint box/cable entry box					
		OCP, BnK Area.					
					Rate/Unit	Amount	
SI. No.	Description		Qty	Unit	in Rs.	in Rs.	
1	Complete overhauling/repairing of transformer, draining of oil, lifting and opening of cover and repairing of tap changer 500 KVA and Below 800 kVA		7	No			
2	Replacement of epoxy gask Below 800 Kva	et as per required shape n size 500 KVA and	5	No			
3	Replacement of epoxy gask Below 500 kVA	Replacement of epoxy gasket as per required shape n size 250 KVA and Below 500 kVA		No			
4	Replacement of epoxy gask	et as per required shape n size Below 250 kVA	4	N0			
5	Painting of transformer bo 500 KVA and Below 800 kV	dy including scraping and removing old paints 'A	4	No			
6	Painting of transformer bo - 250 KVA and Below 500 H	dy including scraping and removing old paints TVA	2	No			
7	Painting of transformer bo Below 250 KVA	dy including scraping and removing old paints	3	No			
8	Replacement of LT side bra	ss stud as per required shape n size	22	No			
9	Replacement of HT side bra	ass stud as per required shape n size	15	No			
10	Replacement of LT side por	rcelain bushing as per required shape n size	10	No			
11	Replacement of HT side po	rcelain bushing as per required shape n size	15	No			
12	providing and fixing MS nu required size	t bolt with washer of transformer body as per	90	No			
13	Online filtration of transfor	mer oil as per instruction of engineer in	13950	Liter			
14	side of transformer primar	mbedding of Joint box/Cable entry box both y or secondary side through MS plate t bolt for fixing of box and cover) as per arge	9	No			
15	Providing and fixing of dra	in valve as per required size.	8	No			
16		per busbar as per required shape n size as per arge including less scrap value.	12	No			

	17	Contractor profit, Supervision Charge and other expanses of above work	1	LS	
Γ		GST@18%			
Γ		Total inclusive of GST			

		BIIL OF QUANTITY-10					
NAME OF THE WORK		Maintenance of 440 volt OH line with Stringing of conductor, cradling arrangement, extension, re- placement of damage pole and lighting arrangement					
		during festive season at SingarBera, Rehw OCP.	va Ghat, ba	adki tand	etc. under Ka	argali	
SI. No.	Description		Qty	Unit	Rate/Unit in Rs.	Amount in Rs.	
1	cement: 3 coarses and: 6	or rail pole strut in cement concrete 1:3:6 (1 graded stone aggregate 40 mm nominal size) wation and refilling and secured with holding equired.	5	Each			
2	and above including bindir	conductor of 7/1.96 mm to 7/3.10 diameter ag etc. as required. 12 span x 35 mtr = 420 mtr km x 214 kg/mtr = 359.52 kg	359.52	Kg			
3	dia X 1.8 metres long stay mm, thimble, stay clamps, G.I. stay wire and strain in: 3 coarse sand : 6 grad	stay set complete (galvanised) with 19/20 mm rod, anchor plate of size 45 cm X 45 cm X 7.5 turn buckle (20 mm X 60 cm), 7/ 4.00 mm dia sulator etc in cement concrete 1:3:6 (1 cement led stone aggregate 40 mm nominal size) action and refilling etc. as required	12	Each			
4	cross arm for 2 wire over h washer etc including dril	75 mm X 40 mm X 6 mm (7.14 kg per metre) lead line complete with clamps, bolts, nuts and ling of holes for insulator pins etc (as per a primer and finished paint as reauired.	19	Set			
5	cross arm for 4 wire over h washer etc including dril	75 mm X 40 mm X 6 mm (7.14 kg per metre) lead line complete with clamps, bolts, nuts and ling of holes for insulator pins etc (as per a primer and finished paint as required.	11	Set			
6	Supplying and erection of Bolt, nuts and straps etc. as	100 mm X 110 mm shackle insulator with G. I. required .	28	Set			
7	Supplying and erection of G. I. Spindle and nuts etc. as	100 mm X 80 mm pin insulator complete with s required	24	Set			
8		or earth continuity (Cradling 560 m x 3 wire = 220.08 kg + lacing 544 nos x 3 mtr = 1584 kg, Total = 427.58 kg)	427.58	Kg			
9	Erection of 8 SWG GI Wire	including binding etc as required.	427.58	Kg			
10	Erection of cradle guard as	required. 16 Span x 33 nos = 528 nos	528	Each			
11	Erection of angle iron/ cha tubular/ rail pole etc. as re	nnel iron cross arm on wood/RCC/PCC/steel quired.	30	Set			
12	Transporting of pole from	Factory to working site.	9	Each			

13	Fitting and fixing of LED light fittings suplied by department.	120	Each	
14	Dismantling of LED light fittings.	120	Each	
15	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/PVC conduit as required. 2 x 1.5 sq. mm	480	Mtr	
16	Dismantling of service connection for re-organization of OH line and re fixing the same after re-organization.	135	Each	
17	Dismantling of over head lines comprising of copper/ aluminium over head conductor, Cl. wire, cross arms, insulators etc. as required.	512	kg	
18	Dismantling of pole/ street light standard/ strut embedded in cement concrete foundation etc. as required	4	Each	
	GST@18%			
	Total inclusive of GST	•		