

THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.
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[Electrical Division]
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PRICE BID FOR THE WORK UNDER SL. NO :- 05 AS PER IFB

NAME OF THE WORK :- SHIFTING & RECONSTRUCTION OF 11 K.V LINE AT THE SITE OF CONSTRUCTION OF NEW MODEL BUS STAND (C-TYPE) AT ODAGAON IN THE DISTRICT OF NAYAGARH.

BID REF NO :-76/PM/ELECT/OPHWC/2025-26

**NAME &
ADDRESS
OF THE
FIRM**

SCHEDULE OF WORKS

Sl. No.	Description of work	Unit	Qty.	Estimated Cost in Rs.	
				RATE IN RS.	AMOUNT IN RS.
I	11 KV 4 POLE STRUCTURE				
1	WPB GI Pole160X152(11 Mtr. Long ,30.44 Kg/Mtr.)	No	4	36804.27	147217.08
2	Top channel GI 100x50x6 mm 3000 mm Long(9.56 kg/Mtr.,2 Nos.)	Kg	229.44	106.50	24435.36
3	Fish Plate 50x6 mm ,2.36 Kg/Mtr.,each 0.280 Mtr., 6 nos. required	Kg	15.859	106.50	1689.00
4	AB switch mounting channel 75x40x4.8 mm GI channel, 3000 mm Long (7.14 kg/mtr,2 Nos.)	Kg	85.68	106.50	9124.92
5	AB witch side support channel 100x50x6 mm GI channel (0.35Mtr Long)(9.56 kg/mtr,2 Nos.)	Kg	13.384	106.50	1425.40
6	Channel support for down pipe 75x40x4.8 mm GI channel(7.14 kg/mtr,2 Nos.)each channel length 0.8 Mtr.	Kg	11.424	106.50	1216.66
7	Pole Belting channel 75x40x4.8 mm GI channel(3000 mm Long) (7.14 kg/mtr,8 Nos.)	Kg	171.36	106.50	18249.84
8	50X50X6 mm.GI Bracing Angle,4.5 Kg/Mtr.,3512 mm Long, 4.5KG/Mtr., 2 Nos.	Kg	126.43	106.50	13465.01
9	Danger plate	No	2	113.60	227.20
10	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	0.6018	106.50	64.09
11	GI Pipe for earthing 40mm dia 3mtr long	No	4	1491.00	5964.00
12	50x6mm GI Flat for earthing, 2.36kg/mtr., (12.5 Mtr. For L.A, 3 Mtr for AB Switch Body, 2.5 mtr. For mesh formation and 2.5 mtr. For raising)= 20.5x2.36	Kg	83.78	106.50	8922.57
13	GI barbed wire/Anticlimbing device	No	12	113.60	1363.20

14	Back clamp for Anticlimbing Device 25x3 mm, flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	4.8144	106.50	512.73
15	11 KV LA (12KV,10 KA)station class-2	No	6	5041.00	30246.00
16	11 KV AB switch (400 Amp, 3 pole, 50 Hz)	Set	2	16827.00	33654.00
17	11 KV pin insulator polymer	Set	6	284.00	1704.00
18	H W fitting(B&S) 70KN, 3Bolt	No.	18	497.00	8946.00
19	Disc Insulator (B&S) 70 KN polymer type	No.	18	1633.00	29394.00
20	Wedge connector for 80 sq. mm conductor	EA	18	138.00	2484.00
21	Paddle clamp for wedge connector for 100 sq. mm AAAC	No	18	148.00	2664.00
22	100 sq. mm AAAC	Mtr.	78.1	30.00	2343.00
23	GI Nut, Bolt & washers of different sizes	Kg	25	110.76	2769.00
24	Polycarbonate Bird Guard	No	24	29.40	705.60
25	Yellow colour paint for Background	Ltr	2	216.00	432.00
26	Black colour paint for numbering	Ltr	1	312.40	312.40
A	A. Sub total				349,531.06
B	B. Stock, Storage & Insurance @ 3% of A				10,485.93
C	Sub Total (C=A+B)				360,016.99
D	T&P @ 2% of C				7,077.48
E	Contingency @ 3% of C				10,800.51
F	Transportation @ 7.5% of C				27,001.27
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				7,581.68
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				20,224.05
J	Total				432,701.99
27	Concreting Ratio 1:1:5:3(500 mmx500mmx1800 mm)=0.45 Cu. Mtr.	Cum	1.8	6648.85	11,967.93
28	Couping Ratio 1:1:5:3 with dimension(500 mmx500mmx450 mm)=0.1125 Cu. Mtr.	Cu. Mtr	0.45	6648.85	2,991.98
29	Construction of earthing chamber including installation of earthing pipe.Making earthing chamber including excavation, soil treatment with betonide powder, calculation of earth resistance,including installation of 3 Mtr. GI Pipe 40/50 mm including welding of GI flat around pipe.	No	4	3784.73	15,138.92
					30,098.83
	Sub total Rs				462,800.82
I	CONSTRUCTION OF 11 KV LINE .				
A	11 KV CUT POINT WITH 180 DEGREE ANGLE				

1	WPB(GI) 160x152 mm (11 Mtr. Long ,30.44 Kg/Mtr.)	No	1	36804.27	36804.27
2	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 1.2 mtr., 4 no's channel required =(4x9.56x1.2)	Kg	22.90	106.50	2438.85
3	Fish Plate 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 16 no's required	Kg	5.3	106.50	564.45
4	Straight Cross Arm 100X50X6mm, 9.56 KG/Mtr., each channel length 0.306 mtr., 4 no's channel required =(42x9.56x0.306)	Kg	5.9	106.50	628.35
5	Danger plate	No	1	113.60	113.60
6	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	0.3	106.50	31.95
7	GI barbed wire/Anticlimbing device	No	3	113.60	340.80
8	Back clamp for Anticlimbing Device 25x3 mm, flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	1.2	106.50	127.80
9	11 KV pin insulator polymer	Set	3	284.00	852.00
10	H W fitting(B&S) 70KN, 3Bolt	No.	6	497.00	2982.00
11	Disc insulator (B&S) 70 KN polymer	No.	6	1633.00	9798.00
12	Earthing of Support (Coil Type)	No	1	235.72	235.72
13	No. 8 GI wire (dia 4.6 mm)0.131 Kg/Mtr.-2 Mtr. For connecting pole with coil earthing	Kg	0.26	106.50	27.69
14	Wedge connector for 80 sq. mm conductor	EA	6	138.00	828.00
15	Polycarbonate Bird Guard	No	9	29.40	264.60
16	GI Nut , Bolt & Washer of different sizes (7.433 Kg each cut pole)	Kg	3.55	110.76	393.20
17	Yellow colour paint for Background(GIS Numbering & Zebra stripping)for Background	Ltr	2	216.00	432.00
18	Black paint (GIS Numbering & Zebra stripping)	Ltr	0.5	312.40	156.20
A	A. Sub total				57,019.48
B	B. Stock, Storage & Insurance @ 3% of A				1,710.58
C	Sub Total (C=A+B)				58,730.06
D	T&P @ 2% of C				1,174.60
E	Contingency @ 3% of C				1,761.90
F	Transportation @ 7.5% of C				4,404.75
	Erection Charges @ 5% on poles				1,895.42
G	Erection Charges @ 10%				2,082.03
H	Total				70,048.77
20	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45Cu.mtr(Per Pole)	Cum	0.45	6648.85	2,991.98
21	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	Cum	0.1125	6648.85	748.00

	Total Material + Services Cost (J+K)				73,788.75
C	11 KV PIN POINTS WITH WPB				
1	80 sq. mm AAAC	Km	0.02	61060.00	1221.20
A	A. Sub total				1,221.20
B	B. Stock, Storage & Insurance @ 3% of A				36.64
C	Sub Total (C=A+B)				1,257.84
D	T&P @ 2% of C				25.16
E	Contingency @ 3% of C				37.74
F	Transportation @ 7.5% of C				94.34
	Erection Charges @ 5% on poles				
G	Erection Charges @ 10%				125.78
H	Total				1,540.85
III	INSTALLATION OF 1 NO. 11 KV DP WITH AB SWITCH AND LA FOR UG CABLE RISING AND 1 NO. CUT POLE FOR EXISTING LINE HEIGHTENING.				
1	WPB(GI) 160x152 mm (11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	36804.27	73608.54
2	Top Channel(GI) 100X50X6mm, 9.56 KG/Mtr., each Channel(GI) length 3 mtr., 2 no's Channel(GI) required =(2x9.56x3)	KG	57.36	106.50	6,108.84
3	Fish Plate(GI) 50x6 mm., 2.36 kg/Mtr., each 0.280 mtr. length, 6 no's required =(6x2.36x0.280)	KG	3.965	106.50	422.27
4	AB switch Mounting Channel(GI) 75X40X4.8mm, 7.14KG/Mtr, each Channel(GI) length 3 Mtr., 2 no's Channel(GI) required =(7.14x3x2)	KG	42.84	106.50	4,562.46
5	AB Switch Side Support Channel(GI) 100X50X6mm,9.56 KG/Mtr., each Channel(GI) length 0.35 mtr., 2 no's Channel(GI) required =(9.56x2x0.35) /AB Switch	KG	6.692	106.50	712.70
6	Channel(GI) Support for down Pipe 75X40X 4.8mm., 7.14KG/Mtr., each Channel(GI) length 0.8 Mtr., 1 no's Channel(GI) required =(7.14x0.8x1) /AB Switch	KG	5.712	106.50	608.33
7	Double Pole Belting Channel(GI) 75X40X 4.8mm., 7.14KG/Mtr., each Channel(GI) length 3.0 Mtr., 8 no's Channel(GI) required =(7.14x3x8)	KG	85.68	106.50	9124.92
8	50x50x6mm.GI Bracing Angle(GI), 4.5Kg./mtr., each Angle(GI) length 3.512 mtr., 8 nos Angle(GI) required = (4.5x3.512x8)	KG	63.216	106.50	6732.50
9	Danger Plate, 2 no's.	No	2	113.60	227.20
10	Back Clamp for danger Plate 25X3 mm. Flat(GI), 0.59Kg/Mtr. Flat(GI) of 0.510mtr length 2 no's =(2x0.59x0.510)	KG	0.6018	106.50	64.09
11	H.T. Stay clamp, 50x8 mm. Flat(GI), 3.14Kg/Mtr., 0.551 Mtr. Length, 2 no's qty. required (1 Pair)	EA	2	177.50	355.00

12	H.T. Stay set (Complete)	SET	2	1491.00	2982.00
13	H.T. Stay Insulator Type-C	EA	2	71.00	142.00
14	7/10 SWG Stay Wire 15kg /stay	KG	30	106.50	3195.00
15	GI Pipe Earthing 40mm. 3 Mtr. Long	No	2	1491.00	2982.00
16	50x6mm Flat(GI) for earthing, 2.36kg/mtr., (12.5 Mtr. For L.A, 3 Mtr for AB Switch Body, 2.5 mtr. For mesh formation and 2.5 mtr. For raising)= 20.5x2.36	KG	48.38	106.50	5152.47
17	GI barbed wire anticlimbing device 3 Kg. Per support, 2 no's qty. required =(2x3kg)	KG	6	113.60	681.60
18	Back Clamp for anticlimbing device 25X3 mm. Flat(GI), 0.59Kg/Mtr. Flat(GI) of 0.510mtr length 8 no's = (8x0.59x0.510)	KG	2.407	106.50	256.35
19	Lightning Arrester(12KV,10KA) (Station Class,class-2)	No.	3	5041.00	15123.00
20	AB Switch (11KV,200A.3pole,50Hz)	SET	1	16827.00	16827.00
21	11 KV pin insulator polymer	EA	3	284.00	852.00
22	H W fitting(B&S) 70KN, 3Bolt	EA	6	497.00	2982.00
23	Disc insulator (B&S) 70 KN polymer	EA	6	1633.00	9798.00
24	Wedge connector for 80 sq. mm conductor	EA	6	138.00	828.00
25	Polycarbonate Bird Guard	EA	9	29.40	264.60
26	GI Nut , Bolt & Washer of different sizes (13.718 Kg each DP with AB Switch)	KG	13.718	110.76	1519.41
27	Black Paint(GIS Numbering & Zebra Stripping)	L	1	312.40	312.40
28	Yellow Colour Paint(GIS Numbering & Zebra Stripping) for Background	L	2	216.00	432.00
A	A. Sub total				166,856.68
B	B. Stock, Storage & Insurance @ 3% of A				5,005.70
C	Sub Total (C=A+B)				171,862.38
D	T&P @ 2% of C				3,238.33
E	Contigency @ 3% of C				5,155.87
F	Transportation @ 7.5% of C				12,889.68
G	Erection Charges @ 5% for transformer and joist pole cost including stock, storage & insurance @3%				3,790.84
H	Erection Charges @ 20% on PSC Poles				
I	Erection Charges @ 10% for other materials				8,609.99
J	Total				205,547.09
29	Fixing of complete 11KV line Complete stay set includes 1) Turn Buckle Assembly 2) Stay Rod & Stay plate 3) Stay Insulator 4) Stay Wire. 5)Stay clamps with Nuts & bolts BA will do the excvation including excvation, supply of 0.5Cum cement concrete foundation 1:2:4 size (500mmx500mmx800mm) using 20mm BHG metal with all labour and material as per TPCODL Drawing & Standard.	EA	2	2301.53	4,603.06

30	Concreting ratio 1:1.5:3(M-20 Grade) (500mmX500mmX1800mm) = 0.45 Cu.mtr(Per Pole)	Cu. Mtr	0.9	6648.85	5,983.97
31	Couping ratio 1:1.5:3(M-20 Grade) (500mmX500mmX450 mm) = 0.1125 Cu.mtr(Per Pole)	Cu. Mtr	0.225	6648.85	1,495.99
32	Construction Earthing chamber including installation of earthing pipe.Making earthing chamber including excavation , soil treatment with bentonide powder , calculation of earth resistance, including Installation of 3Mtr GI Pipe 40mm/50mm including welding of Flat(GI) around pipe .	EA	2	3784.73	7,569.46
					19,652.48
				Sub total Rs	225,199.56
PART-III	Supply and Laying of 1.1 KV , 4 C x 95 Sq. mm XLPE Insulation armoured-Aluminium UG cable - 100 Mtr.. With spare Run.				
1	Supply of materials for 1.1 KV XLPE insulation armoured UG cablele with accessories-HDD Method (along with spare cable)				
a	Length of 1.1 KV, 4C, 95 sq. mm XLPE insulation armoured-Aluminium UG Cable(HDD Method)	Mtr.	100		
1.1	Supply of 1.1 KV ,4 core, 95 sq. mm XLPE insulation armoured - Aluminium UG Cable	Mtr	200	499.41	99,882.00
A				A. Sub total	99,882.00
	Erection Portion				
1	Laying ,commissioning ,Testing of 1.1 KV , Aluminium, XLPE insulation armoured UG cable by HDD method				
1.1	Laying of 1.1 KV ,4 core 95 sq. mm XLPE insulation armoured-aluminium UG cable by HDD Method with HDPE Pipe(110 mm dia, PN8 PE80) including supply of HDPE Pipe.	Mtr	200	2352.67	470,534.00
2	SITC of Gland /AL term				
2.1	Supply and erection of double compression flameproof type glanding for armoured cable 3.5/4 core ,50-95 sq. mm including making hole in Base plate and dressing of cable along with vermin proofing properly .supply to be done as per TPCODL specification and approved make dowells.	EA	4	690.46	2,761.84
					473,295.84
A	Sub Total (Supply Portion)				99,882.00

B	Stock, Storage & Insurance @ 3 % of A				2,996.46
C	Sub Total (A+B)				102,878.46
D	Contingency @ 3 % of C				3,086.35
E	Tools & Plants Charges @ 2% of C (considered for multimeter panel and earthing items)				
F	Transportation @ 7.5% of C				7,715.88
G	Erection Charges @ 10% of earthing items and Multimeter Panel				
H	Total (C+D+E+F+G)				113,680.70
I	Sub Total (Erection Portion + Civil Portion)				473,295.84
J	Total Cost (H+I)				586,976.54
III	CONSTRUCTION OF 2 NOS. OF LT CUT POLE FOR U/G CABLE RISING.				
1	WPB(GI) 160x152 mm (11 Mtr. Long ,30.44 Kg/Mtr.)	No	2	36804.27	73,608.54
2	LT stay set complete	Set	2	738.40	1,476.80
3	7/12 SWG GI stay wire, Grade-2	Kg	24	106.50	2,556.00
4	LT stay clamp	Pair	2	156.20	312.40
5	LT stay set Insulator	No	2	42.60	85.20
	LT Accessories with Eye Hook and Clamp				
6	Pole Clamp for Eye Hook for XLPE Aerial bunched cable	Pair	4	284.00	1,136.00
7	Eye Hook for XLPE Aerial Bunched Cable	No	4	85.20	340.80
8	Dead End Clamp suitable for messenger XLPE Aerial Bunch Cable (25x70 sqmm)	No	4	92.30	369.20
9	4 way service Distribution Box with kitkat fuse and aluminium Bus bar.	No	2	3138.20	6,276.40
10	Coil Earthing	No	2	235.72	471.44
11	No-8 GI wire (Dia-4.6mm)	Kg	0.5	106.50	53.25
12	Danger plate (LT)	No	2	113.60	227.20
13	Back clamp for Danger Plate 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 1 Nos=(1x0.59x0.510)	Kg	0.6	106.5	63.90
14	GI barbed wire/Anticlimbing device 3 kg per support	Kg	6	113.6	681.60
15	Back clamp for Anticlimbing Device 25x3 mm ,flat, 0.59 Kg/Mtr., flat of 0.510 Mtr. Length 4 Nos=(4x0.59x0.510)	Kg	2.41	106.5	256.67
16	GI Nut, Bolt & washers of different sizes	Kg	1	110.76	110.76
17	Yellow colour paint for Background	Ltr	4	216.00	864.00
18	Black paint	Ltr	2	312.40	624.80
A	TOTAL MATERIAL COST				89,514.96
B	Stock, Storage & Insurance @ 3% of A				2,685.45
C	Sub Total (C=A+B)				92,200.40
D	Contingency @3% of C				2,766.01
E	T & P 2% of C				1,752.79
F	Transportation @ 7.5% of C				6,915.03
G	Erection Charges for PSC Pole @ 20%				
H	Erection Charges of Joist Poles @ 5%				3,790.84
I	Erection Charges of other @ 10%				1,182.28

J					Sub Total Rs.	108,607.36
Civil and Services Works (As per Technical Specification)						
23	Fixing of LT complete stay set includes(1) Turn Buckle assembly(2)Stay Rod & stay Plate(3)Stay Insulator(4)Stay Wire(5)stay Clamps with Nuts & Bolts,including excavation supply of 0.5 cum cement concrete foundation 1:2:4 size(500x500x800mm)using 20 mm BHG metal with all Labour and material(Excavation of earth will be done of size500x500x1500mm)	No	2	2301.53	4603.06	
24	Concreting Ratio 1:1:5:3(M-20 Grade)(500 mmx500mmx1500 mm)=0.375 Cu. Mtr.	Cu.Mtr	0.9	6648.85	5,983.97	
21	Couping ratio 1:1.5:3(M-20 Grade) with dimension (500X500X450)= 0.1125 Cu mtr(Per Pole)	Cum	0.225	6648.85	1495.99	
Total Services Cost					12,083.02	
Total Material + Services Cost (J+K)					120,690.37	

II-Construction of 11 kv line using 3Cx300 sq. mm XLPE U/G cable of Length 130 Mtr with Spare Run.

Supply Portion

1	Supply of materials for 11kV, 3Core, 300 sqmm, XLPE insulation armoured UG cable with accessories					
a	Length of 11kV 3C, 300 sqmm cable (HDD Method)	Mtr.	130			
1.1	Supply of 11kV, 3Core,300 sqmm, XLPE insulation armoured UG cable (SC rating of cable in kA- 28.3 kA and SC rating of Armour in kA- 15 kA)	Mtr.	260.00	1,754.24	456,102.40	
1.2	Supply of Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 300 sqmm, HT UG cable for 3Core (Set)	Set	8	18,772.40	150,179.20	
Sub Total (Supply Portion) (in Rs.)					606,281.60	

Erection Portion

Sl. No.	Description of items	Unit	Quantity	Rate (in Rs.)	Amount (in Rs.)
1	Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by HDD method				

1.1	Laying, Commissioning, Testing of 11kV, 3core, 95sqmm, aluminium, XLPE insulation armoured (extruded type) UG cable by HDD method with HDPE Pipe(160 mm dia, PN8 PE80) including supply of HDPE Pipe.	Mtr.	260.00	2,416.09	628,183.40
1.2	Erection of Straight through Jointing Kits /Outdoor termination kits Heat Shrinkable type suitable for 11kV, 3Core, 400 sqmm, aluminium UG cable kits .	Set	8	1,944.33	15,554.64
Sub Total (Erection Portion) (in Rs.)					643,738.04
Civil Portion					
Sl. No.	Description of items	Unit	Quantity	Rate (in Rs.)	Amount (in Rs.)
3.1	Supply and Erection of Cable Route Marker along the cable route at an interval of 30 mtrs with civil works.	Nos.	4	1,035.17	4,140.68
3.2	Supply and erection of GI Pipe of dia. 150mm, Class-B (8Mtr.)	Mtr.	64	1,496.91	95,802.24
Sub Total (Civil Portion) (in Rs.)					99,942.92
A	Sub Total (Supply Portion)				606,281.60
B	Stock, Storage & Insurance @ 3 % of A				18,188.45
C	Sub Total (A+B)				624,470.05
D	Contingency @ 3 % of C				18,734.10
E	Tools & Plants Charges @ 2% of C (considered for earthing items)				
F	Transportation @ 7.5% of C				46,835.25
G	Erection Charges @ 10% of earthing items				
H	Total (C+D+E+F+G)				690,039.40
I	Sub Total (Erection Portion + Civil Portion)				743,680.96
J	Total Cost (H+I)				1,433,720.36
DISMANTLING CHARGES					
1	Dismantling 8/9 Mtr. PSC Pole	Nos.	4	920.61	3,682.44

2	Dismantling/ Removal of V cross arm from Pole	Nos.	4	42.35	169.40
3	Dismantling of 11 KV Pin insulator with Pin	Nos.	12	8.29	99.48
4	Dismantling of ACSR/AAAC 80/100 sq. mm from Overhead Line	Mtr.	360	9.21	3,315.60
5	Dismantling of various LT Cable	Mtr.	92	23.02	2,117.84
Sub Total Rs.					9,384.76
Sub Total Rs.					2,914,102.01
Cess @1%					29,141.02
Total Estimated Cost					2,943,243.03
Total Estimated Cost in Figures					2,943,243.00
EXCESS <input type="checkbox"/> LESS <input type="checkbox"/> (Please Tick)		In Figure _____ %			
		In word _____ %			
Quoted Amount in Figure					
Quoted Amount in word					

N:B- The Estimated cost is exclusive of GST.

Signature of Tenderer with seal

**Sd/-
Asst. Project Manager (Elect)**

**Sd/-
Dy. Manager (Elect)**

**Sd/-
Project Manager (Elect)**