

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
		SUB-HEAD - I : INTERNAL WIRING						
		Note:						
		Rates of only ISI marked PVC conduit, FR PVC insulated multi-stranded copper conductor single core cables, modular plate type switches and socket outlets in M.S. box of 18 SWG and earth wire have been taken in the following items unless and otherwise specified, only such conduits, cables switches and socket outlets shall be used in the work as per list of approved makes attached with tender documents.						
1		Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required.						
a)	DSR-2012-1.10.3	Group -C	Point	440				
	NDSR	Loop Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required.	Point	435				
2	DSR-2012-1.14.2	Wiring for Light plug 2 x 2.5 sq.mm FR PVC insulated multi-stranded copper conductor, single core cable in recessed ISI marked PVC conduit along with 1 No. 2.5 sq.mm FR PVC insulated copper earth wire for loop earthing as required.	Meter	4028				
3	DSR-2012-1.12	Wiring for light/ power plug with 2X4 sq. mm FR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Meter	3600				

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
4	DSR-2012-1.14.4	Wiring for power plug with 2 x 6 sq.mm FR PVC insulated multi-stranded copper conductor single core cable in surface / recessed PVC conduit along with 1 No. 6 sq.mm FR PVC insulated copper earth wire for loop earthing as required.	Meter	630				
5	DSR-2012-1.14.9	Wiring for power plug with 4 x 6 sq.mm FR PVC insulated multi-stranded copper conductor single core cable in surface / recessed PVC conduit along with 2 Nos. 6 sq.mm PVC insulated solid copper earth wire for loop earthing as required.	Meter	100				
6	DSR-2012-1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. (For light plugs).	Each	219				
7	DSR-2012-1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	Each	180				
8	NDSR-INEL-1A	Supplying and fixing of M.S. box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess including providing and fixing modular plate type 2 Nos. 5 pin 6 Amp modular socket outlet, 1 No. 6 Amp modular switch including connections, an painting etc. as required.	Each	198				
11	DSR-2012-1.31	Supplying and fixing of M.S. box of 180mm X 100mm X 60mm deep (nominal size) on surface or in recess including providing and fixing modular plate type 5 pin, 6 Amps socket outlet without switch with plug top complete including connections, and painting etc. as required. (Exit / Emergency Light Points).	Each	13				
12	DSR-2012-1.14.2	Wiring for circuit wiring with 2 x 2.5 sq.mm FR PVC insulated multi-stranded copper conductor single core cable with 1 x 2.5 sq.mm. FR PVC inculcated earth wire in recessed PVC conduit as required.	Meter	2188				

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
13	DSR-2012-1.14.2	Wiring for group light points with 2 x 2.5 sq.mm FR PVC insulated multi-stranded copper conductor single core cable in recessed PVC conduit with accessories like junction boxes, bends, socket and connectors including continuous running of 1 No. 1.5 sq.mm FR PVC insulated solid copper conductor earth wire complete with earthing the fixtures and outlet boxes as per specification and drawings (basements, staircase and lift, well light point wiring).	Meter	500				
14		Providing, fixing, testing and commissioning of under noted rating flush type industrial socket outlet with plug top controlled by ELCB/MCB all mounted in M.S. sheet steel box duly painted in recess / surface complete as required (excluding, wiring and conduit)						
a)	NS-INEL-1	20 Amps 3 pin socket outlet controlled by DP ELCB (30 mA)	Each	6				
b)	DSR-2012-2.18	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	15				
15		Supplying and fixing of following sizes of PVC conduit along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required as per specification.						
a)	DSR-2012-1.21.1	20mm dia PVC conduit	Meter	750				
b)	DSR-2012-1.21.2	25mm dia PVC conduit	Meter	1000				
c)	DSR-2012-1.21.3	32mm dia PVC conduit	Meter	250				

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
		TOTAL RS.						
		SUB-HEAD II - FANS & LIGHT FIXTURES:						
1	NDSR- INEL- 12B	Supplying, fixing, connecting, testing and commissioning of 3 x 14 watt T-5 recessed type direct indirect luminaire complete with electronic ballast, lockable holders and fluorescent lamp including connection etc. as required similar to Philips. Xtend TBS 669	Each	320				
2	NDSR- INEL- 12A	Supplying, fixing, connecting, testing and commissioning of 1 x 28 watt fluorescent luminaire complete with electronic ballast, lockable holders and fluorescent lamp including connection etc. as required similar to Philips. Adreno	Each	270				
3	NDSR- INEL- 12C	Supplying, fixing, connecting, testing and commissioning of recessed type light fitting complete with , wire guard, holder, electronic ballast 1 x 18 W lamp including connections etc. as required similar to Philips.FBT 150 EBS	Each	55				
4	NDSR- INEL- 12H	Supplying, fixing, connecting, testing and commissioning of recessed type light fitting complete with frosted glass cover, wire guard, holder, electronic ballast 2 x 18 W lamp including connections etc. as required similar to Philips. Philips.FBT 150 EBS	Each	285				
5	NDSR- INEL- 12K	Supplying, fixing, connecting, testing and commissioning of Bulkhead type light fitting complete with , wire guard, holder, electronic ballast 1 x 9 W lamp including connections etc. as required similar to Philips. NXC 101	Each	24				
6		Supplying, erection, connecting, testing and commissioning of following size exhaust fan complete with gravity louver and connection with 3 core flexible wire as required.						
	NDSR- INEL- 13E	a) 305mm 1400 RPM	Each	6				
7		Supplying, erection, connecting, testing and commissioning of wall bracket fan 400 mm sweep with step speed regulator complete as required.						

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
	NDSR- INEL- 1F	b) 400 mm sweep	Each	15				
8		Supplying, erection, connecting, testing and commissioning of following ceiling fan complete with blades, down rod, shackle insulator, canopy etc. including providing of electronic step regulator with faceplate matching the existing modular switches as required similar to Havells ES-50 .						
	NDSR- INEL- 1G	a) 1200 mm sweep	Each	10				
9	NDSR- INEL- 12E	Supplying, fixing, connecting, testing and commissioning of mirror light luminaire with 1 x 14 watt complete with electronic ballast, lamp including connection etc. complete as required similar to Philips Cat. No. FWZ 300 or equivalent	Each	47				
10	NDSR- INEL- 12F	Supply, installation, connecting, testing and commissioning of illuminated exit sign with 1 x 3 watt LED lamp including providing maintenance free batteries & charger capable of working for 2 hr duration mounted on ceiling/wall complete with the approved EXIT self adhesive labels as per site requirement as required similar to Prolite or equivalent	Each	13				
11	NDSR- INEL- 12L	Supply, installation, connecting, testing and commissioning of Motion/occupancy sensor combined with day light sensors including all wiring in the existing conduits required similar to Philips cat no: photosensor or equivalent.	Each	50				
		TOTAL RS.						
		SUBHEAD- III: M.V. PANELS/ DISTRIBUTION BOARD						
1		Supplying, fixing, connecting, testing and commissioning of TP&N distribution board with double door with vertical bus bars, totally enclosed and concealed type complete with 200 Amps rating phase copper bus bars, suitable for incorporating single pole MCB's neutral link (special type) and earth links etc. with MCBs as required as per specifications.						

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
A.		TP&N D.B. (4- WAY)						
i)		1 No. 40 Amps 4P MCB isolator as incomer with RCCB (300mA)						
ii)	NDSR- INEL-2	12 Nos. 6-32 Amps SP MCB for outgoing	Nos.	2				
B.		TP&N D.B. (6- WAY)						
i)		1 No. 40 Amps 4P MCB isolator as incomer with RCCB (300mA)						
ii)	NDSR- INEL-3	18 Nos. 6-32 Amps SP MCB for outgoing	Nos.	2				
C.		TP&N D.B. (8- WAY)						
i)		1 No. 63 Amps 4P MCB isolator as incomer with RCCB (300mA)						
ii)	NDSR- INEL-4	24 Nos. 6-20 Amps SP MCB	Nos.	4				
D.		TP&N D.B. (12- WAY)						
i)		1 No. 63 Amps 4P MCB isolator as incomer with RCCB (300mA)						
ii)	NDSR- INEL-5	36 Nos. 6-20 Amps SP MCB	Nos.	24				
2		Supplying, installation, testing and commissioning of L.T. panel fully compartmentalized cubical type sheet clad floor mounted totally enclosed , extensible on both sides, switch board suitable for use on 415 Volts 3-phase, 4 wire, 50 Hz system having required fault capacity, housed with incoming and outgoing, Aluminium bus bars with current rating of 0.8 Amp/sq.mm, interconnection etc. with indication lamps, accessories etc, as required as per specification and schematic diagram as required. (Basement floor)						
		INCOMER:-						
		1 Nos. 100 Amps. TPN MCCB (25 KA) with electronic releases.						
		1 Set phase indication lights (R, Y, B)						

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
		1 No. Multi function meter (digital type) Amperes, Voltage, KWH						
		BUS BARS:-						
		200 Amps. TP&N Aluminium bus bars (25 KA)						
		OUT GOINGS:-						
	NDSR	4 Nos.63A TPN, MCB (10KA).	Set	2				
3		Same as above item no. - 2 but following mountings. (floor Panel L&P)						
		INCOMER:-						
		1 Nos. 100 Amps. TPN MCCB (25 KA) with electronic releases.						
		1 Set phase indication lights (R, Y, B)						
		1 No. Multi function meter (digital type) Amperes, Voltage, KWH						
		BUS BARS:-						
		200 Amps. TP&N Aluminium bus bars (25 KA)						
		OUT GOINGS:-						
	NDSR	6 Nos.63A TPN, MCB (10KA).	Set	4				
4		Same as above item no. - 2 but following mountings. (AHU Panel)						
		INCOMER:-						
		1 Nos. 160 Amps. TPN MCCB (25 KA) with electronic releases.						
		1 Set phase indication lights (R, Y, B)						
		1 No. Multi function meter (digital type) Amperes, Voltage, KWH						
		BUS BARS:-						
		200 Amps. TP&N Aluminium bus bars (25 KA)						
		OUT GOINGS:-						
		10 Nos. 63 Amps. TPN MCCB (25 KA) with electronic releases.						
	NDSR	7 Nos. 32 Amps. TPN MCCB (25 KA) with electronic releases.	Set	1				
5		Same as above item no. - 2 but following mountings. (Lift Panel)						
		INCOMER:-						

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
		1 Nos. 100 Amps. TPN MCCB(25 KA) with electronic releases.						
		1 Set phase indication lights (R, Y, B)						
		1 No. Volt Meter (digital type) with inbuilt VSS & control fuses.						
		1 No. 0-100 Amp. Ammeter (digital type) with inbuilt ASS						
		BUS BARS:-						
		200 Amps.(25KA) TP&N Aluminium bus bars						
		OUT GOINGS:-						
		3 Nos. 63 Amps. TPN MCCB(25 KA) with electronic releases.						
	NDSR	2 Nos. 32A TPN, MCB (10KA).	Set	1				
6		Same as above item no. - 2 but following mountings. (HRV panel)						
		INCOMER:-						
		1 Nos. 100 Amps. TPN MCCB (25 KA) with electronic releases.						
		1 Set phase indication lights (R, Y, B)						
		1 No. Multi funtion meter (digital type) Amperes, Voltage, KWH						
		BUS BARS:-						
		200 Amps. TP&N Aluminium bus bars (25 KA)						
		OUT GOINGS:-						
	NDSR	16 Nos. 16 Amps. TPN MCCB (25 KA) with electronic releases.	Set	1				
7		Same as above item no. - 2 but following mountings. (Ventilation panel)						
		INCOMER:-						
		1 Nos. 200 Amps. TPN MCCB (35 KA) with electronic releases.						
		1 Set phase indication lights (R, Y, B)						
		1 No. Multi funtion meter (digital type) Amperes, Voltage, KWH						
		BUS BARS:-						
		200 Amps. TP&N Aluminium bus bars (35 KA)						
		OUT GOINGS:-						
		12 Nos. 63 Amps. TPN MCCB (25 KA) with electronic releases.						

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					In Figures	In Words	In Figures	In Words
	NDSR	3 Nos. 32 Amps. TPN MCCB (25 KA) with electronic releases.	Set	1				
8		Same as above item no. - 2 but following mountings. (UPS panel)						
		INCOMER:-						
		3 Nos. 100 Amps. 4P MCCB (25 KA) with electronic releases.						
		3 Set phase indication lights (R, Y, B)						
		3 No. Multi function meter (digital type) Amperes, Voltage, KWH						
		BUS BARS:-						
		250 Amps. 4P Copper bus bars (35 KA)						
		OUT GOINGS:-						
	NDSR	8 Nos.63A 4P, MCB (25KA).	Set	1				
9		Same as above item no. - 2 but following mountings. (UPS incomer)						
		INCOMER:-						
		1 Nos. 63 Amps. 4P MCCB (25 KA) with electronic releases.						
	NDSR	1 Set phase indication lights (R, Y, B)	Set	3				
10	DSR- 2012- 2.21	Providing and fixing MV danger plate of 200 x 150mm of mild steel at least 2mm thick and vitreous enameled white paint on both side and with inscription in signal red colour on front side as required.	Each	10				
		TOTAL RS.						
		SUB-HEAD -IV : Cable Trays /Raceways						
1		Supply and laying of under noted sizes of hume pipe NP-2 grade under the road including 1:3:6 cement concrete bed at 750-1200 depth cutting and making good the same as required as per technical specifications.						

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
a)	DSR- 2012- 14.14. 1	100mm dia	Meter	20				
b)	DSR- 2012- 14.14. 3	250mm dia	Meter	50				
2	NS	Supply and fixing of steel work in position including clamps, frame work of flats, angle iron, channel with fabrication work including cutting, bending, welding, drilling bolting etc. as per design as required. One coat of primer and 2 coats of enamel paint of approved shade shall be provided.	Kg.	1000				
3		Supply and fixing of perforated 1.6 mm thick CRCA sheet steel power coated cable tray of following sizes complete with bend/tee joints, coupling plate & nuts bolts etc. including providing and fixing of M.S. painted hanger etc. as required.						
a)	DSR- 2012- 4.1.4	300mm wide 50mm depth	Meter	50				
b)	DSR- 2012- 4.1.3	200mm wide 50mm depth	Meter	50				
c)	DSR- 2012- 4.1.2	150mm wide 50mm depth	Meter	50				
4		Fabricating supplying to site, installation in ceiling/floor , 2.0 mm thick M.S. Powder coated raceways of height 50 mm and 2 mm thick openable cover, totally enclosed, seam welded. Two lengths of channel / channel and junction box shall be seam welded together to make it dust and water proof.						

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					In Figures	In Words	In Figures	In Words
a)	NDSR- INEL- 18A	450mm wide 50mm depth	Meter	210				
b)	NDSR- INEL- 18B	900mm wide 50mm depth	Meter	20				
5		Fabricating supplying to site or installation, 2.5 mm thick M.S. Powder coated sheet steel 5 sided junction boxes with 3 mm thick G.I. sheet steel duly polished providing rubber gasket between the cover and the junction box, brass screws height as per site condition and totally enclosed, seam welded. the channel and junction box shall be seam welded together to make it dust and water proof. Proper cutouts shall be made in the side walls for raceway entry.						
a)	NDSR- INEL- 18C	450mm x 450mm wide 60mm depth	Nos.	42				
b)	NDSR- INEL- 18D	900mm x 900mm wide 60mm depth	Nos.	6				
		TOTAL RS.						
		SUB-HEAD -V : EARTHING						
1	DSR- 2012- 5.4	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	4				
2	DSR- 2012- 5.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	10				
3	DSR- 2012- 5.8	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)	Metre	100				

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
4	DSR-2012-5.9	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Metre	100				
5	DSR-2012-5.10	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	Metre	50				
6	DSR-2012-5.11	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	Metre	30				
7	DSR-2012-5.12	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	Metre	500				
8	DSR-2012-5.14	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	Metre	80				
9	DSR-2012-5.15	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Metre	80				
		TOTAL RS.						
		SUB HEAD-VI : T.V. , TELEPHONE SYSTEM & LAN SYSTEM						
1		Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.						

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
a)	DSR- 2012- 1.18.2	2 Pair (4 core)	Meter	8240				
2		Providing, laying, connecting and testing of multi-core telephone armoured cable of conductor size 0.63mm dia annealed copper conductor PVC insulated PVC sheathed jelly filled (as per DOT specification) cable along wall or ceiling or through existing pipe.						
a)	NDSR- INEL- 7G	100 Pair telephone cable	Meter	200				
b)	NDSR- INEL- 7C	5 Pair telephone cable	Meter	100				
3		Providing, fixing connecting and testing of under noted size of solderless telephone tag block Krone make in surface/recess in wall required size of M.S. box with hinged lockable cover duly stove enamel painted.						
a)	NDSR- INEL- 11D	50 pair tag block	Each	4				
b)	NDSR- INEL- 11F	200 pair tag block	Each	1				
4		Supplying and fixing of following sizes of PVC conduit along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required as per specification.						
a)	DSR- 2012- 1.20.1	20mm dia conduit pipe	Meter	2500				

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
b)	DSR- 2012- 1.20.2	25mm dia conduit pipe	Meter	6500				
c)	DSR- 2012- 1.20.3	32mm dia conduit pipe	Meter	1500				
5	DSR- 2012- 14.13. 2	Providing and laying of 80mm dia medium class GI pipe including all fixing accessories concealed or surface as required.	Meter	50				
6	DSR- 2012- 1.22.1	Supplying and fixing M.S. box of size 75x75mm in wall furniture etc as required for installing data voice outlets	Each	206				
7	NDSR- INEL- 17A	Supplying and fixing testing and commissioning of modular type data/ voice (RJ-45) outlet with double faceplate 2-port/ 4-port complete as required.	Each	404				
8	NDSR- INEL- 17B	Providing, laying, connecting and testing of data/ computer Cat-6 cable along wall or ceiling or through existing pipe, including pentad scanning documentation etc as required.	Meter	7920				
9	NDSR	Providing, laying, connecting and testing of Cat-6 patch cords of 7 feet length (red, blue & yellow color)	Each	808				
10	NDSR	Supplying and fixing testing and commissioning of 24-port unloaded modular jack panel, 1U (for voice & data) complete as required.	Each	17				
11	NDSR	Supplying and fixing testing and commissioning of 42U rack with front glass, back steel door and side panels, with casters, fan housing units with fans, cable manager, AC main channel with required outlets, earthing kit, Mounting hardware, Stationery shelf complete as required.	Each	1				
12	NDSR	Supply , installation, testing & Commissioning of EAPBX System comprising of PRI card – 5 digital channel, 300 extension card, 4 digital extension, digital operator console, UGW card, MRC card, CLI facility for internal & external line, 300 port MDF with protection module, champ cable, SMPS, Float cum boost charger, battery back for 1 hr backup, complete as required.	Set.	1				

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
13	DSR-2012-1.24.7	Supplying and fixing M.S. box with modular type coaxial outlet for TV antenna complete as required.	Each	7				
14	DSR-2012-1.19	Providing, laying, connecting and testing of unarmoured TV cable RG-6 PVC insulated cable along wall or ceiling or through existing pipe.	Meter	350				
15	NDSR	Supplying and fixing M.S. box with Phenolic laminate plate 4- way splitter box for TV antenna complete as required.	Each	4				
16	NDSR	Supplying and fixing of 450 x 450 x 150 M.S. box with Phenolic laminate plate of 16 SWG M.S. Sheet with hinged door cover for mounting TV amplifier including wooden base plate complete as required.	Each	1				
		TOTAL RS.						
		SUB-HEAD -VII : FIRE DETECTION SYSTEM						
1	NS-INEL-15A	Supply, installation, testing and commissioning of microprocessor based UL/EN54 compliant analog addressable intelligent fire alarm control panel (4) loop complete with central processing unit. Network communication card RS-485 port, 80 Characters LCD display with primary power supply at 230V with 24/36 volts. Sealed maintenance free (SMF) batteries backup (as per IS) complete with solid state boost/trickle automatic battery charger. The panel shall support Graphics package for central monitoring of all field devices.	Set	1				
2	NS-INEL-15B	Supply, installation, testing and commissioning of Multi Cooperative Sensing Analog addressable Photoelectric smoke detector with hard addressing from 0 to 99 addresses, mounting based LED, complete as required.	Each	176				
3	NDSR-INEL-15C	Supply, installation, testing and commissioning of Analog addressable Rate of Rise Cum Fixed temperature detector with hard addressing from 0 to 99 addresses, mounting based LED, complete as required.	Each	67				

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
4	NDSR- INEL- 15E	Supply, installation, testing and commissioning of hard addressable type manual call point, 1 stage with in-built LED, lighting up automatically to confirm its actuation complete as per specification as required.	Each	12				
5	NDSR- INEL- 15F	Supply, installation, testing and commissioning of UL/EN listed wall mounted hooter with strobe (100 dba) complete as per specification as required.	Each	12				
6	NS- INEL- 15G	Supply, installation, testing and commissioning of UL/EN listed surface type mounted directly on ceiling/ recessed 1/4-1/2 tap changer speakers with line matching transformer complete as per specification as required.	Each	201				
7	NDSR- INEL- 15H	Supply, installation, testing and commissioning of addressable input/output control module for shutting down AHU's, lifts and controlling lift pressurization fans and ventilation fans etc. including power supply for driving the control module as per requirement.	Each	20				
8	NS- INEL- 15I	Supplying, fixing, testing and commissioning of UL listed telephone talk back units (fire fighter telephone hand set) compatible to MFACP complete as required.	Each	13				
10	NDSR- INEL- 15J	Supply, fixing, testing and commissioning of PA/Voice Evacuation System to be coupled with Fire Alarm Control Panel, Microphone with floor selector switch, Controller with Amplifier of suitable capacity with accessories, recorded voice player, change over for fire detection panel & PA System with mounting rack to house amplifiers & controller.	Each	1				
11	NDSR- INEL- 15K	Supply, fixing, testing and commissioning of Graphics user interface package for central monitoring of status of all the detectors and field devices complete with accessories as required. (Include PC of suitable configuration along with Printer)	Each	1				

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
12	NDSR	Supplying, laying, testing and commissioning of point wiring for following sensors and devices with 2 x 1.5 sq.mm FRLS PVC insulated multi-stranded single core copper conductor wire in M.S. conduit with conduit accessories including loop circuit from main fire alarm panel located at ground floor in fire control room complete as required.	RM	6875				
a)		Wiring for smoke/heat detectors.						
b)		Wiring for Input/Output modules.						
c)		Wiring for manual call point.						
13	NDSR	Supplying, laying, testing and commissioning of point wiring for hooters with strobe circuits with 2 pair 1.5 sq.mm copper conductor flexible wire (1 pair shielded and 1 pair unshielded) including loop wiring from MFCP in M.S. conduit with conduit accessories complete as required.	RM	600				
14	NDSR	Supplying, wiring, testing and commissioning of point wiring for speakers with 2 core 1.5 Sq.mm cu. Twisted copper conductor wire including loop wiring from MFCP in M.S conduit with conduit accessories complete as required.	RM	3015				
15	NDSR	Supplying, wiring, testing and commissioning of point wiring for telephone talk back units with 2 pair (4 core) 0.61mm dia annealed copper conductor PVC insulated PVC sheathed telephone cable in M.S. conduit with conduit accessories complete as required.	RM	650				
		TOTAL RS.						
		SUB-HEAD -VIII : CCTV SYSTEM						
1	NDSR- INEL- 16A	Supply,installation,testing and commissioning of CCD coloured cameras, 1/3 inch 480 lines, HIGH RESOLUTION, 0.1 lux with 3/ 4 mm fixed lens with IR Leds for Day and night vision complete as required in mini dome shape fixed type, including all wiring from the control module in existing PVC conduits complete as required.	Set	16				

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
2	NDSR- INEL- 16E	Supply,installation,testing and commissioning of outdoor type CCD coloured cameras, 1/3 inch 480 lines, HIGH RESOLUTION, 0.1 lux with 3/ 4 mm fixed lens with IR Leds for Day and night vision complete as required PTZ type, including all wiring from the control module in existing PVC conduits complete as required.	Set	4				
3	NDSR- INEL- 16B	Supply,installation,testing and commissioning of 16 – channel colour Digital Video Mgmt system with 16 cameras inputs Built in multiplexer, Digital Video recorder, Video motion Detection system, with external alarm inputs & outputs TCP/IP network feature & 500GB HDD	Each	2				
4	NDSR- INEL- 16C	Supply,installation,testing and commissioning of colour high resolution LCD 21 inch coloured complete as required of SAMSUNG Make or equivalent	Each	2				
5	NS- INEL- 16D	Supply,installation,testing and commissioning of power supply unit with SMF batteries with suitable automatic battery charger etc complete as required. (One no. for set of 5 cameras).	Each	5				
		TOTAL RS.						
		SUB-HEAD -IX : ACCESS CONTROL SYSTEM						
1	NDSR- INEL- 20	Supply,installation,testing and commissioning of Biometric access control for 3 door with all software, controller,power supply units including all wiring from the control module in existing PVC conduits complete as required.	Set	1				
		TOTAL RS.						
		SUB-HEAD -X : UPS SYSTEM						

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
1	NDSR- INEL- 19	Supply, Installation, testing & commissioning of 1x 30KVA UPS system configuration with 3Phase Input and 3 Phase Output True On Line Double Conversion fully microprocessor controlled UPS system including Battery Circuit Breaker for Each Module CRCA housing with all required fixing accessories and hardware, Inbuilt/ external Galvanic Isolation Transformer, Inbuilt Static switch bypass and inverter in each UPS module, In-Built Manual Maintenance by-pass, Sealed Maintenance free batteries for 30 Min back up, Suitable battery charger,suitable Battery Racks MS Powder Coated , all copper Interlinking cables etc complete as required.	Set	3				
		TOTAL RS.						
		SUBHEAD-XI - LIGHTNING PROTECTION SYSTEM						
1	DSR- 2012- 6.2	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.	Each	2				
2	DSR- 2012- 6.4	Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.	Each	4				
3	DSR- 2012- 6.7	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)	Metre	300				
4	DSR- 2012- 6.8	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)	Metre	120				
5	DSR- 2012- 6.12	Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.	Each	4				

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.								
BOQ FOR INTERNAL ELECTRICAL & LV WORKS								
SL.NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (In Rs.)	RATE (In Rs.)	AMOUNT (In Rs.)	AMOUNT (In Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
6	DSR-2012-6.14	Providing and laying G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.	Metre	20				
7	DSR-2012-5.2	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	Each	4				
		TOTAL RS.						
		SUB HEAD-XII: SOLAR POWER PANELS						
1		Design, supply at site, installation, testing & commissioning of 8 kWp Solar Grid Interactive system (ON- GRID solar power plant) 3-phase, 415 volt, synchronized with transformer/DG set supply including all accessories, inverter, solar panels, all cabling, certifications, liaison with authorities for subsidy, for the following KWp ratings complete as required.						
A.	NDSR	8 kWp	Set.	1				
		TOTAL RS.						