













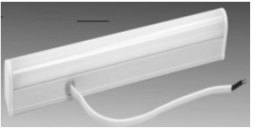


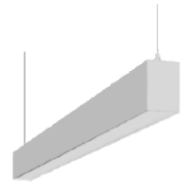

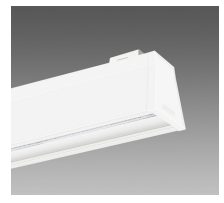


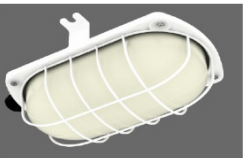




























SCHEDULE OF WORK			Wipro		Trilux		Dissano	
Sr. No.	Description of item	Details	Image	Details	Image	Details	Image	
1	COB cyliner-15w	Supply & Testing of approx 14 to 17W COB Surface/Suspended Mounted Cylinder downlight with CCT of 3000±500k, Housing Aluminum Diecast, shall have minium CRI of 80 & PF minimum 0.95 with clear glass diffuser & DALI dimmable driver. LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. % THD shall not exceed 10% .surge protection minimum 2.5kv. Long life 50,000@L70. Height of the Fixture shall be minimum 120mm. Lumen package shall be 80 L/Watts minimum.			ADRASTIA D LED 1200-830 ET Surface Mounted Cylindrical Shape 12W, 100Lm/W, 2400Lm, CCT 3000K, CRI>80, Service Life 50,000 Hrs with DALI Dimmable Driver		Disano make <b>Themis-R150</b> -adjustable with optic . 15w with dimmable ballast	
2	COB cyliner-25W	Supply & Testing of approx 22 to 27W COB Surface/Suspended Mounted Cylinder downlight with CCT of 3000±500k, Housing Aluminum Diecast, shall have minium CRI of 80 & PF minimum 0.95 with clear glass diffuser & DALI dimmable driver. LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. % THD shall not exceed 10% .surge protection minimum 2.5kv. Long life 50,000@L70. Height of the Fixture shall be minimum 120mm. Lumen package shall be 80 L/Watts minimum.			ADRASTIA D LED 2400-860 ET Surface Mounted Cylindrical Shape 24W, 100Lm/W, 2400Lm, CCT 5700K, CRI>80, Service Life 50,000 Hrs with DALI Dimmable Driver		Disano make <b>Themis-R150</b> -adjustable with optic . 24w with dimmable ballast	
3	COB cyliner-40W	Supply & Testing of approx 36 to 45W COB Surface/Suspended Mounted Cylinder downlight with CCT of 3000±500k, Housing Aluminum Diecast, shall have minium CRI of 80 & PF minimum 0.95 with clear glass diffuser & DALI dimmable driver. LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. % THD shall not exceed 10% .surge protection minimum 2.5kv. Long life 50,000@L70. Height of the Fixture shall be minimum 120mm. Lumen package shall be 80 L/Watts minimum.			ADRASTIA D LED 2400-860 ET Surface Mounted Cylindrical Shape 24W, 100Lm/W, 2400Lm, CCT 5700K, CRI>80, Service Life 50,000 Hrs with DALI Dimmable Driver		Disano make Themis-R150-adjustable with optic . 40w with dimmable ballast	
4	Surfaced downligh-18W	Supply & Testing of approx 14 to 19W Surfaced CRCA housing with CCT 3000±500k, shall have minium CRI of 80 & PF minimum 0.95 with High quality PMMA diffuser with highly reflective light guiding plate for glare free & uniform light distribution Light Transmission diffuser & DALI dimmable driver. Operational range 200-270 VAC. LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. % THD shall not exceed 10% .surge protection minimum 2.5kv.Long life 50,000@L70 . Lumen package shall be 80 L/Watts minimum.			Ambiella D IND LED 1000-860 ET 01 Surface Mounted Cylindrical LED downlight, 14W, 90Lm/W, 5700K, 1260Lm, 50000Hrs life with DALI Dimmable Driver		Disano make <b>Slim lex 4</b> -led 18w with dimmable ballast	
5	Surfaced downligh-24W	Supply & Testing of approx 22 to 28W Surfaced CRCA housing with CCT 3000±500k, shall have minium CRI of 80 & PF minimum 0.95 with High quality PMMA diffuser with highly reflective light guiding plate for glare free & uniform light distribution Light Transmission diffuser & DALI dimmable driver . Operational range 200-270 VAC. LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. % THD shall not exceed 10% .surge protection minimum 2.5kv.Long life 50,000@L70 . Lumen package shall be 80 L/Watts minimum.			ADRASTIA D LED 2400-860 ET Surface Mounted Cylindrical Shape 24W, 100Lm/W, 2400Lm, CCT 5700K, CRI>80, Service Life 50,000 Hrs with DALI Dimmable Driver		Disano make <b>Slim lex 4</b> -led 18w with dimmable ballast	
6	Recessed downlight-12W	Supply & Testing of approx 12 to 15W recessed panel light ,powder coated Aluminium housing with CCT 3000±500k, shall have minium CRI of 80 & PF minimum 0.95 with High quality PMMA diffuser with highly reflective light guiding plate for glare free & uniform light distribution Light Transmissiondiffuser. Operational range 200-270 VAC. LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. % THD shall not exceed 10% .surge protection minimum 2.5kv.Long life 50,000@L70 . Lumen package shall be 80 L/Watts minimum.			Ambiella Plus IND G3 LED 1000-857 ET Recess Mounted downlighter 12W, 90Lm/W, 1080Lm, CCT 5700K, CRI>80 Service Life 50,000 Hrs with DALI Dimmable Driver		Disano make <b>Eco lex 2</b> 14w with dimmable ballast	
7	recessed downlight 18W	Supply & Testing of approx 18 to 21W recessed panel light ,powder coated Aluminium housing with CCT 3000±500k, shall have minium CRI of 80 & PF minimum 0.95 with High quality PMMA diffuser with highly reflective light guiding plate for glare free & uniform light distribution Light Transmissiondiffuser. Operational range 200-270 VAC. LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. % THD shall not exceed 10% .surge protection minimum 2.5kv. . Lumen package shall be 80 L/Watts minimum.			Ambiella Plus IND G3 LED 1530-857 ET Recess Mounted downlighter 18W, 90Lm/W, 1620Lm, CCT 5700K, CRI>80 Service Life 50,000 Hrs		Disano make <b>Eco lex 3</b> 21w	
8	9w LED	Supply & Testing of 9 to 12W -2ft LED PC batten with high efficiency Led light source having CCT of 3000±500k with anti-glare diffuser into a conventional batten with PF minimum 0.95, Long life 50,000@L70 and surge protection minimum 2kv. The LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. Lumen package shall be 70 L/Watts minimum.	LL20-111-XXX-65-NE		TSmart 10175954 Linea F OTA 2200-857 ET LED Batten in 4ft length 20W, 110Lm/W, 2200Lm, CCT 5700K, CRI>80, Service Life 50,000 Hrs		Disano make <b>Borea Led</b> 8w	

FIXTURE BASKET

SCHEDULE OF WORK			Wipro		Trilux		Dissano	
Sr. No.	Description of item	Description of item	Details	Image	Details	Image	Details	Image
9	Liner Led light-30W	Supply & Testing of approx 20 to 30w surfaced/suspended liner light incl of all required mounting Kit ,powder coated Aluminium dia cast housing with CCT 3000±500k, shall have minium CRI of 80 & PF minimum 0.95 with High quality PMMA diffuser for glare free & uniform light distribution . LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. % THD shall not exceed 15% .surge protection minimum 2.5kv.Long life 50,000@L70 . Lumen package shall be 80 L/Watts minimum.	LM34-401-XXX-57-XX		TSmart Linea F OTA 4000-857 ET LED Batten in 4ft length 36W, 110Lm/W, 4000Lm, CCT 5700K, CRI>80, Service Life 50,000 Hrs		Disano make Sintesi system suspended /surface mounted 25w	
10	Surfaced IP protection-utility 36W	Supply & Testing of approx 35 to 40W surfaced liner light incl of all required mounting Kit & CCT 3000±500k, shall have minium CRI of 80 & PF minimum 0.95 with High quality PMMA diffuser for glare free & uniform light distribution .IP 65 protections and moisture proof. LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. % THD shall not exceed 15% .surge protection minimum 2.5kv.Long life 50,000@L70 . Lumen package shall be 80 L/Watts minimum.	LE10-491XXX-57HCSL		TRL OTA 3600-860 ET LED IP65 Batten in 4ft length 36W, 100Lm/W, 3600Lm, IP65, CCT 5700K, CRI>80, Service Life 50,000 Hrs		Disano make Hydro-962 led . 36w	
11	Bulk head-10W	Supply & Testing of approx 9 to 11W surfaced mounted wall light & CCT 5700±500k, shall have minium CRI of 80 & PF minimum 0.95 with epoxy white powder coated die cast aluminimim housing with PC diffuser .IP 65 protections and moisture proof. LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. % THD shall not exceed 10% .surge protection minimum 2.5kv.Long life 50,000@L70 . Lumen package shall be 80 L/Watts minimum.	LW03-850-XXX-57-XX		OPTIMA IND G3 1000 - 840 ET 01 LED Bulk Head 10W, 100Lm/W, 1000Lm, CCT 4000K, CRI>80, Service Life 50,000 Hrs		Disano make 1281 small . 9w	
12	Liner -sea through type fixtuer 40W	Supply & Testing of Suspended approximate 28 to 40W UP-DOWN LED Lighting fixture with Transparent Light Guiding Plate (LGP)-with central downward LED module, ULOR – 50 & DLOR - 50 ,Dimmable & tuneble by RF remote. 3000±500K, CRI minimum 80 & PF minimim 0.95 with long life 50,000@L70 and minimim 2.5kv surge protection. The LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. Lumen package shall be 80 L/Watts minimum.	LM34-361-XXX-57-XX		LUCEOS H1- 7017351 L CDP 4000- 840 ETDD 01 High end suspended luminaire 26W, 154Lm/W, 4000Lm, CCT 4000K, CRI>80, Service Life 50,000 Hrs		Disano make Sintesi system direct/indirect lighting suspended version. 35w	
13	Suspended 30W	Supply & Testing of Al. Die cast formed housing, powder coated black or white surface finish, round or square hollow fixture with PMMA diffuser. 3000±500K, Minimum wattage shall be 17w. Minimum size shall be 400x400mm or 400 dia. High efficient LEDs for uniform light distribution. PF minimum 0.95 with long life 50,000@ L 70 and minimim 2.5kv surge protection.. The LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. Lumen package shall be 80 L/Watts minimum.	LM29-451-XXX-57GRD		POLARONI Q H2D LED2000- 840 ET 1,0M Suspended decorative 17W, 118Lm/W, 2000Lm, CCT 4000K, CRI>80, Service Life 50,000 Hrs		regret	
14	Foot light 9W	Supply & Testing of Outdoor recessed mounted step light of approx 6 to 9W with IP 65 and IK08 impact resistance with integrated high efficient LED. 3000±500K, PF minimum 0.9, with long life 50,000@L70 and minimim 2.5kv surge protection. surge protection minimum 2.5kv. The LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. Lumen package shall be 80 L/Watts minimum.	LT50-050-XXX-30-XX		Wall recess outdoor PAREDA R 6W, 18Lm/W, 110Lm, PLAN IP65, IK02, CCT 3000K LEDWW ET Service Life 50,000 Hrs 26		Disano make 1606 Box-footlight/steplight . 5w	
15	Bollard 10W	Supply & Testing of outdoor 8 to 11W bollards light fixture-extruded aluminium housing with graphite grey finish with PMMA diffuser.clear bollard height 600 to 800mm.IP 65 rating and IK09 impact resistance with long life 50,000@L70 and surg protection minimum 2 kv.and PF minimum 0.9 requiried . The LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. 5700±500K	CRLA11008HP57-08		Outdoor Bollard 8841K- 10W, 85Lm/W, 850Lm, AB2L/850- IP65, Service Life 50,000 Hrs 740 2G15 ET		Disano make 1879 portofino medium version bollard . 10w	

FIXTURE BASKET

SCHEDULE OF WORK			Wipro		Trilux		Dissano	
Sr. No.	Description of item	Details	Image	Details	Image	Details	Image	
16	Post top Fixture - 25W	Supply & Testing of outdoor post top 25 to 40W light fixture-Durable extruded aluminium housing extruded with PC diffuser on top.clear pole height 2.7 to 4mtr .IP 65 rating and IK09 impact resistance with long life 50,000@L70 and surg protection minimum 5kv.and PF minimum 0.9 required. The LED Shall be from Cree/Nichia/Philips Lumi Leds/ Osram. Lumen package shall be 80 L/Watts minimum. This item shall include the Supply of required length to archive total height minimum of 2.7m, 139 mm outer uniform dia. GI light pole with medium class GI pipe with GI / zinc coating and two coats of paint / pu coats of approved shed complete with base plate as per requirement complete in all respect. This includes suitable bracket made from GI & in same finish of pole as required for the fixture. Junction box shall be in concealed manner. Adequate size cutout with opeanable hinged door should be provided on pole with necessary gasket to ensure water tight arrangement for pulling cables, supply & installation of mcbs, connectors, internal connecting flexible wire from JB to each fixture of 2 X 1.5 sq. mm + 1 X 1.5 sq. mm, spiral earthing using 6 SWG GI wire etc, complete in all respect as per requirement and instruction of engineer in charge. 5700±500	LP05-711-XXX-65-XX - 60 W		CS 20 Basic Post Top Luminaire 110- 25W, 116Lm/W, 2900Lm, RB6L/2900- IP65, 4m Height, with DALI 740 4G1S driver, Service Life 50,000 Hrs ETDD		Disano make <b>Garda 1 -3350 . + Pole 35w</b>	
17	Sports Midbay	Supply & Testing of LED Highbay fixture IP65 protected Die-Cast Aluminium housing, 60 Deg Beam angle for uniform distribution with proper PC lanses. LED shall having LM80 complied as per L70 standard LEDs minimum tested for 10,000 burning hours with 5000K CCT only. LED Make shall be Bridglux, Citizen, and Osram only. Maximum power consumption shall be not be exceed 140W and system lumens shall not be less than 18500. Driver shall be Multi stage Constant Current with voltage range of 150-270 AC. Output voltage of driver should be complied to Safety Extra Low Voltage norms not exceeding 60V DC only. . Driver Power factor shall be 0.95 and above and THD shall be less than 10%. 5700±500K.	LH17-232-060-50-XX		LBL 18400 ET 90D-NW		Disano make 2889 Saturno narrow beam 108w	
18	Wall Washer 1	Supply & Testing of LED FLOOD Light fixture IP65 and IK08 impact resistance protected Die-Cast Aluminium housing, 60 Deg Beam angle for uniform distribution with proper PC lanses. LED shall having LM80 complied as per L70 standard LEDs minimum tested for 10,000 burning hours with 5000±500K CCT only and surg protection minimum 5kv. The LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. Maximum power consumption shall be not be exceed 250W and system lumens shall not be less than 30,000. Driver shall be Multi stage Constant Current with voltage range of 150-270 AC. Output voltage of driver should be complied to Safety Extra Low Voltage norms not exceeding 60V DC. Driver Power factor shall be 0.95 and above and THD shall be less than 10%.	LF07-272-060-50-V5		LFL IND 25000-840 ET		Disano make 2182 Forum -1 -symmetric W "Wide beam".256W	
19	Wall Washer 2	Supply & Testing of LED FLOOD Light fixture IP65 and IK08 impact resistance protected Die-Cast Aluminium housing, 60 Deg Beam angle for uniform distribution with proper PC lanses. LED shall having LM80 complied as per L70 standard LEDs minimum tested for 10,000 burning hours with 5000±500K CCT only and surg protection minimum 5kv. The LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. Maximum power consumption shall be not be exceed 415W and system lumens shall not be less than 47,500. Driver shall be Multi stage Constant Current with voltage range of 150-270 AC. Output voltage of driver should be complied to Safety Extra Low Voltage norms not exceeding 60V DC. Driver Power factor shall be 0.95 and above and THD shall be less than 10%.	LF07-582-060-50-V5		LFL IND 35000-840 ET		Disano make 2183 Forum -1 -symmetric X W .400W	

SCHEDULE OF WORK			Wipro		Trilux		Dissano	
Sr. No.	Description of item	Details	Image	Details	Image	Details	Image	
20	Street Lighting	Supply & Testing of LED Street Light fixture IP66 protected Die-Cast Aluminium housing having uniform distribution with proper PC lenses. LED shall having LM80 complied as per L70 standard LEDs minimum tested for 10,000 burning hours with 5700±500K CCT only. The LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. Maximum power consumption shall be not be exceed 45W and system lumens shall not be less than 3000±500. Driver shall be Multi stage Constant Current with voltage range of 150-270 AC. Output voltage of driver should be complied to Safety Extra Low Voltage norms not exceeding 60V DC. Driver Power factor shall be 0.95 and above and THD shall be less than 10%. This item shall include the Supply of required length to archive total height minimum of 6m, 164 mm outer uniform dia. GI light pole with medium class GI pipe with GI / zinc coating and two coats of paint / pu coats of approved shed complete with base plate as per requirement complete in all respect. This includes suitable bracket made from GI & in same finish of pole as required for the fixture. Junction box shall be in concealed manner. Adequate size cutout with opeanable hinged door should be provided on pole with necessary gasket to ensure water tight arrangement for pulling cables, supply & installation of mcbs, connectors, internal connecting flexible wire from JB to each fixture of 2 X 1.5 sq. mm + 1 X 1.5 sq. mm, spiral earthing using 6 SWG GI wire etc, complete in all respect as per requirement and instruction of engineer in charge.	LR02-451-XXX-57-G2		TRILUX MAKE-LSL 4000- ET		Disano make 3290 Sella 1 42w	
23		Supply & Testing of approx 8 to 12W Wall Mounted Decorative Fixture with CCT of 3000±500k, Housing Aluminum Diecast, shall have minium CRI of 80 & PF minimum 0.95 with clear glass diffuser. LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. % THD shall not exceed 10% .surge protection minimum 2.5kv. Long life 50,000@L70. Lumen package shall be 80 L/Watts minimum					Disano Make 1558 Brick Direct light	
24		Supply & Testing of approx 18 to 22W Wall Mounted Decorative Fixture with CCT of 3000±500k, Housing Aluminum Diecast, shall have minium CRI of 80 & PF minimum 0.95 with clear glass diffuser. LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. % THD shall not exceed 10% .surge protection minimum 2.5kv. Long life 50,000@L70. Lumen package shall be 80 L/Watts minimum					Disano Make 1558 Brick Direct light	
25		Supply & Testing of approx 8 to 12W IP67 and IK09 impact resistance Ground Burial Symatrical Light Fixture with CCT of 3000±500k, Housing Aluminum Diecast, PF minimum 0.95 with toughen glass diffuser. LED shall be from Cree/Nichia/Philips Lumi Leds/ Osram. % THD shall not exceed 12% .surge protection minimum 2.5kv. Long life 50,000@L70. Lumen package shall be 80 L/Watts minimum					Disano Make 1634 Micro floor	