

LIST OF MATERIALS/PRODUCTS (ELECTRICAL)		
S. No.	Material /Article	Manufacturers/ Agencies/ Brand make
1	Engine	Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
2	Alternator	Kirloskar/KEL/Crompton Greaves (AL. series) / KEC / Stamford Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
3	Battery (Lead Acid /Mntc. Free)	Amara Raja / Exide/Crompton Greaves/Prestolite/Pace Setter/Standard/ Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
4	HV Switchgear	Crompton / Kirloskar /Voltas/ C & S Electric Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
5	LT Switchgear	L&T/ Schneider Electric / Siemens//Legrand/Havells Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
6	Vaccum Circuit Breaker	GE/Siemens/ C & S Electric Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
7	Transformer (Oil filled / Dry type)	ABB / Crompton Greaves / Kirloskar /Siemens/ Alstom/Uttam Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
8	HT Panels	ABB/Siemens/L&T/Schneider/Kirloskar Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
9	Air Circuit Breaker	L&T/ Schneider Electric / Siemens/Havells Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
10	MCCB (Ics=Icu)	L &T/ Schneider Electric / Siemens/Legrand/Havells Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
11	MV/LT Panels	TTA/CPRI Fabricators with panels cleared by CPRI Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
12	SDF units	L&T/ Schneider Electric / Siemens/ Havells/ Legrand Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
13	Power Contactors	L&T/ Schneider Electric / Siemens/BCH/GE/ Power Controls Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
14	Change Over Switch	L & T/ HPL / Havells / Standard/Control & Switch gears Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
15	Air Brake Switch	National/Kiran/Pactil/Atlas/Power grid switchgears Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
16	Pin and Disc Insulator	Jayshree/WS/IEC/BHEL/Bharat Industries Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
17	11 KV Horn Gap Arrestor	Sahal/Pactil/GEC/SEW Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
18	Lightning Arrestor	Atlas/GE/Elaro/Lamco/International/Oblum/Elpro Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT

19	Drop out Fuses	National/Kiran/Pactil Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
20	GI/MS Pipe (ISI Marked)	ATC / ATL / BST / GSI / ITC / ITS / IIA /JST / Jindal /TTA / Tata/Zenith Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
21	APFC Relay	L&T/ Schneider Electric / Neptune Ducati/Syntron/Trinity Electronics Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
22	IDMT Relay	AVKC/SEGC Ashok Leyland /Cummins/ Cater pillar /KOEL Mahindra & Mahindra /Escorts OR EQUIVALENT MAKE/PRODUCT
23	C.T./P.T.	AE/MP/Marshall/Pactil/Kappa/L&T/Ashmor/Waco/Meco/Gilbert/Trio/Indotech/Indo coil OR EQUIVALENT MAKE/PRODUCT
24	Selector Switch	L&T/Kaycee/IMP/Vaishno/Seizer/rass control OR EQUIVALENT MAKE/PRODUCT
25	Indicating Lamp (LED Type) and Push But	Vaishno/Siemens/L&T/AE/IMP/Rass OR EQUIVALENT MAKE/PRODUCT
26	Power Capacitors (MPP/APP)	Khatau/Junkar/L&T/EPCOS(Siemens)/ABB/Crompton/Schneider Electric/Neptune Ducati OR EQUIVALENT MAKE/PRODUCT
27	Digital Panel Meters i/c Multi Function Meter	Conzerv/Schneider Electric/ AE/ Digitron / IMP/Meco / Rishabh /Universal/HPL/L&T/ABB OR EQUIVALENT MAKE/PRODUCT
28	Ammeter/Voltmeter	AE/Universal/Rishabh/Kaycee/Meco/Enercom OR EQUIVALENT MAKE/PRODUCT
29	Cold shrink HT/LT Cable Joint Kit	Denson / 3M(M-Seal)/ Raychem OR EQUIVALENT MAKE/PRODUCT
30	Rubber Matting (ISI Marked)	Jyoti Rubber Udyog/Raychem/Padmini/Dozz OR EQUIVALENT MAKE/PRODUCT
31	AVM Pads	Dunlop/Poly Bond OR EQUIVALENT MAKE/PRODUCT
32	MCB/ Isolator/ELCB/RCCB/ Distribution Board	Crompton / Havells / MDS Legrand/ L&T / Schneider Electric/Siemens / Polycab/ C&S/ (makes of DBs and circuit breakers shall be same) OR EQUIVALENT MAKE/PRODUCT
33	TPN Switches & HRC Fuses	Crompton / Havells / MDS Legrand/ L&T / Schneider Electric/Siemens / Polycab/ C&S/ (makes of DBs and circuit breakers shall be same) OR EQUIVALENT MAKE/PRODUCT
34	PVC Conduits (ISI Marked) Colour : Ivory/Grey	AKG/Polycab/Avon Plast/Precision OR EQUIVALENT MAKE/PRODUCT
35	Steel Conduits (ISI Marked)	BEC/Bharat/Gupta/AKG/RMCON/Steel Krafts OR EQUIVALENT MAKE/PRODUCT
36	Piano/Modular Switches and Sockets	Legrand/Havells/Polycab/ Schneider/Anchor OR EQUIVALENT MAKE/PRODUCT
37	Cable Tray	MEM/Bharti/Ratan/Slotco/Profab OR EQUIVALENT MAKE/PRODUCT
38	Cable Glands	MCI, Comet/Jainson/Dowells OR EQUIVALENT MAKE/PRODUCT
39	Thimbles/Lugs	Jainson/Dowells/Ascon OR EQUIVALENT MAKE/PRODUCT

40	1.1 KV/11KV grade Al. Condr., XLPE insulated armoured cables (ISI Marked	Finolex/Havells/Polycab//KEI OR EQUIVALENT MAKE/PRODUCT
41	Fire Survival cable	Finolex/Havells/Polycab//KEI OR EQUIVALENT MAKE/PRODUCT
42	Wires (PVC insulated copper conductor cable FRLS - ISI marked)/Telephone Cables / Submersible cables/Co-axial/TV cables	Finolex/Havells/Polycab//KEI OR EQUIVALENT MAKE/PRODUCT
43	Fans and Exhaust fans (All Types)	Khaitan/Havells/Crompton/Orient/Bajaj/Usha/Polycab OR EQUIVALENT MAKE/PRODUCT
44	LED Luminaries i/c street light fittings (ISI Marked)	Khaitan/Havells/Crompton/Orient/Bajaj/Usha/Polycab OR EQUIVALENT MAKE/PRODUCT
45	LAN Cables	Panduit/Legrand/Schneider//Polycab OR EQUIVALENT MAKE/PRODUCT
46	Centrifugal Pump	BE Power / Beacon /Crompton / Kirloskar / KSB OR EQUIVALENT MAKE/PRODUCT
47	Submersible Pump	BE Power / Beacon /Crompton / Kirloskar / KSB OR EQUIVALENT MAKE/PRODUCT
48	Motors	Crompton Greaves /Schneider Electric / Kirloskar/ Siemens OR EQUIVALENT MAKE/PRODUCT
49	Motor Starter	L&T/Siemens/BCH/GE Power Control/Schneider Electric OR EQUIVALENT MAKE/PRODUCT
50	Fresh Air Fans	Khaitan/Havells/Crompton/Orient/Bajaj/Usha/Polycab OR EQUIVALENT MAKE/PRODUCT
51	Single Phase Preventer/Overload Unit	L&T / Minilec / Siemens OR EQUIVALENT MAKE/PRODUCT
52	Timers	L&T / Minilec / Siemens /AE OR EQUIVALENT MAKE/PRODUCT
53	Gate Valve/Foot Valve/NRV/Butter Fly Valve	Advance/Audco/Johnson Controls/Zoloto/Annapurna / Fountain /Kirloskar / Leader / Sant / Trishul/Kartar/Inter Valve OR EQUIVALENT MAKE/PRODUCT
54	Single/Double Headed GM Landing Valve	New Age (Mumbai)/Safex/Ceasefire/Padmini/Life guard OR EQUIVALENT MAKE/PRODUCT
55	Hydrant Valve	New Age (Mumbai)/Safex/Ceasefire/Kalpana/L&T valves Ltd./Life guard OR EQUIVALENT MAKE/PRODUCT
56	Sprinkler/ Hose Reel & Hose Pipe (ISI Marked)	Safex/Agni/Newage/Ceasefire/Life Guard/Omex OR EQUIVALENT MAKE/PRODUCT
57	Fire Extinguisher (ISI Marked)	Minimax/Lifeguard/Safeguard/Safex/Omex OR EQUIVALENT MAKE/PRODUCT
58	Water Purifier	Eureka Forbes/Kent/Ion Exchange/LG OR EQUIVALENT MAKE/PRODUCT
59	Inverter System	Sukam/Microtek/Luminous OR EQUIVALENT MAKE/PRODUCT
60	Electrical Water Storage Heater	Racold/Crompton/Havells/Bajaj/Polycab OR EQUIVALENT MAKE/PRODUCT

Note:-

1. The above makes are subjected to the compliance of '**Make in India**' norms.
2. The Engineer-In-Charge of HSCL reserves the right to add or delete any material/products in the list of above makes/products of the subject work.
3. Wherever applicable, the Engineer-in-Charge of HSCL may obtain prior approval from T.S authority for any material equivalent to that specified in the tender subject to proof being offered by the contractor for equivalence to his satisfaction.

4. Unless otherwise specified, the makes/products of the material as specified in the item nomenclature, in the particular specification and in the list of materials/products attached in the tender, shall be used in the work.

5. In case of non-availability of the makes/products specified in the contract the contractor shall be allowed to use alternate equivalent makes/products of the material subject to submission of documentary evidence of non-availability of the specified makes/products.

6. The Engineer-In-Charge of HSCL shall verify that manufacturers must have valid IS/BIS Certification as on date for materials wherever applicable.

7. Unless otherwise specified, the above materials/products list is final & binding on the contractor, and is subject to change(s) only, if required by Client, without any sort of deviation w.r.t. Quality of makes/products for which decision of the Engineer-In- Charge of HSCL shall be final.

8. Models of items of all fixture & allied equipment's and accessories should be got approved from the Engineer in charge well before placing any order to the OEM/its authorized dealer. The contractor/agency is required. to submit all relevant test certificates documents and along with the proposal. The model along with sample should be approval by Engineer-in-charge before placing any order and supply of same to the site. The decision of Engineer-in-charge is binding in this regard and no variation is acceptable.

LIST OF MATERIALS/PRODUCT (CIVIL)			
S. No	Material /Article	Confirming IS Code	Manufacturers/ Agencies/ Brand make
1	Cement (OPC 43 grade)/PPC	IS 8112:1989/ IS 1489 (Part-1) 2015	A.C.C., Jaypee Cement, Ultratech, Shri Cement, Gujrat Ambuja Cement and cement Corporation of India., Dalmia Infra Pro (Dalmia Bharat Cement), Ramco Cement OR EQUIVALENT MAKE/PRODUCT
2	Ready Mix Concrete	-	Ultra Tech (Ultra Tech Cement Ltd.), ACC (ACC Cements Ltd), RMC (India), RMC (India) Pvt. Ltd OR EQUIVALENT MAKE/PRODUCT
3	AAC Blocks	-	Xtralite (Ultra Tech Cement Ltd), Areocon (HIL), Nucon (Green Way building materials India Pvt. Ltd.), Magicrete (Magicrete Precast), NCL OR EQUIVALENT MAKE/PRODUCT
4	Reinforcement Steel	IS 1786:2008	RINL, SAIL, TATA, JSW STEEL, JSPL OR EQUIVALENT MAKE/PRODUCT
5	Structural Steel	IS 2062:2011	SAIL, TISCO, RINL, JSW Steel Ltd, JINDAL OR EQUIVALENT MAKE/PRODUCT
6	Stainless Steel	-	JINDAL SS Ltd (JSL), Salem (SAIL), SAIL (SAIL) OR EQUIVALENT MAKE/PRODUCT
7	Corrugated GI Sheets	IS 277:2003	TATA, SAIL, JSW, JSPL , BHUSAN OR EQUIVALENT MAKE/PRODUCT
8	Colour coated profile sheet	-	TATA, JINDAL OR EQUIVALENT MAKE/PRODUCT
9	Aluminium extruded sections	IS 733:1983 & IS 1285:2002	Jindal, Hindalco, Indian Aluminium Co. NALCO OR EQUIVALENT MAKE/PRODUCT
10	Aluminium plain sheets	IS 733:1983 & IS 1285:2002	Jindal, Hindalco, Indian Aluminium Co. NALCO OR EQUIVALENT MAKE/PRODUCT
11	Factory made Machine pressed laminated flush door shutter	IS 2202 (Part 1) : 1999 and relevant IS code	Century, Greenply, Kitply, Duroply, Merino OR EQUIVALENT MAKE/PRODUCT.
12	Block Board	IS 1659:2004	Century, Greenply, Kitply, Duroply, Merino. OR EQUIVALENT MAKE/PRODUCT
13	Flush door shutter	IS 2202 (Part 1) : 1999	Greenply, Century, Kitply, Duroply Merino OR EQUIVALENT MAKE/PRODUCT
14	Boiling Water proof plywood, Block board, Commercial plywood	IS 303:1989	Greenply, Century, Kitply, Duroply Merino OR EQUIVALENT MAKE/PRODUCT.
15	Aluminium door & window fittings	Relevant IS Code	Jyoti, Argent, Everest, Classic OR EQUIVALENT MAKE/PRODUCT
16	PVC rigid foam sheet	-	Rajshri or equivalent OR EQUIVALENT MAKE/PRODUCT
17	Hydraulic Floor Spring	IS 6315:1992	Dorma, Hardwin, Ozone, Dorset OR EQUIVALENT MAKE/PRODUCT
18	Door Closure	IS : 3564	Dorma, Hardwin, Ozone, Dorset OR EQUIVALENT MAKE/PRODUCT
19	Float Glass		Saint Gobain (Saint Gobain India Pvt. Ltd.), Modiguard (Gujarat Guardian Ltd.), Asahi (Asahi India Glass ltd.) OR EQUIVALENT MAKE/PRODUCT

20	SWR uPVC pipe & fitting	IS 4985:2000 & IS 14233:1999	Supreme, Finolex, Prince, Astral, Prakash, Ashirwad OR EQUIVALENT MAKE/PRODUCT
21	CPVC Pipe & fittings	IS 16088: 2012,IS 15778:2007	Supreme, Finolex, Prince, Astral, Prakash, Ashirwad, OR EQUIVALENT MAKE/PRODUCT
22	Ceramic glazed wall tiles	IS 13712:1993	Kajaria, Orientbell, Somany, NITCO, HR Johnson OR EQUIVALENT MAKE/PRODUCT
23	Vitrified Tiles	IS: 15622: 2006	Kajaria, Orientbell, Somany, NITCO, HR Johnson OR EQUIVALENT MAKE/PRODUCT
24	Bitumen VG-30, VG-10 etc.	IS:73:2013	As per particular specification of IOCL, BPCL, HPCL OR EQUIVALENT MAKE/PRODUCT
25	Admixtures	IS: 9103:1999	FOSROC, SIKKA, CICO Technologies Ltd., Pidilite OR EQUIVALENT MAKE/PRODUCT
26	Mild Steel Tubes	IS: 1239:1990	As per IS Code OR EQUIVALENT MAKE/PRODUCT
27	1st quality acrylic distemper (Ready mix)		Bison (Lewis Berger), Beauty (NEROLAC), Tractor Uno (Asian Paints) OR EQUIVALENT MAKE/PRODUCT
28	Premium Acrylic smooth exterior Paint with silicon additives		ULTIMA (Asian paint), Premium Exterior Emulsion (Dulux), Weather coat long life 7 (Berger) OR EQUIVALENT MAKE/PRODUCT
29	Paints	IS:101:1986	Lewis Berger, Asian Paints, Nerolac, Dulux OR EQUIVALENT MAKE/PRODUCT
30	Steel/Wood Primer paints	IS:14177:1994	Lewis Berger, Asian Paints, Nerolac, Dulux OR EQUIVALENT MAKE/PRODUCT
31	Factory made C.C. Interlocking Paver Blocks	IS: 15658:2006	NITCO, KK, NTC OR EQUIVALENT MAKE/PRODUCT
32	Bitumen 85/25	IS:702:1988	HPCI, IOCL OR EQUIVALENT MAKE/PRODUCT
33	Water Proofing Compound	IS:2645:2003	FOSROC, Dr. FIXIT, BASF, CICO, SIKKA OR EQUIVALENT MAKE/PRODUCT
34	Crystalline Waterproofing Compound	IS 2645:2003	FOSROC, Dr. FIXIT, BASF. SIKKA OR EQUIVALENT MAKE/PRODUCT
35	G. I. Pipes	IS:1239	TATA, Jindal Hissar OR EQUIVALENT MAKE/PRODUCT
36	PVC Water Storage Tanks	IS: 12701:1996	Sintex, Plasto OR EQUIVALENT MAKE/PRODUCT
37	P.T.M.T. Accessories	IS:9763	Prayag, Prakash OR EQUIVALENT MAKE/PRODUCT
38	Mirror		Saint Gobain (Saint Gobain India Pvt. Ltd.), Modiguard (Gujarat Guardian Ltd.), Asahi (Asahi India Glass Ltd.), Atul (Autl Glass Industries Ltd.) OR EQUIVALENT MAKE/PRODUCT
39	Stainless Steel Sink	IS: 13983:1994	Hindware, NIRALI, CERA, JAYNA OR EQUIVALENT MAKE/PRODUCT
40	Sanitaryware/ Chinaware	As per IS Code	Cera, Parryware, Hindware, Jaquar OR EQUIVALENT MAKE/PRODUCT
41	C.P. Fittings and accessories for bathroom / toilets	IS:7784:1993	Jaquar, Gem, Parko, Hindware, Cera, Parryware OR EQUIVALENT MAKE/PRODUCT
42	RCC Pipes	Confirming to IS Specification	Indian Hume Pipes (Indian Hume Pipe Ltd.), Jain & Co (Jain spun pipes Co) OR EQUIVALENT MAKE/PRODUCT
43	SFRC Cover and grating	IS 12592(2002)	KK (KK Manhole and gratings Co Pvt Ltd.) or equivalent make/product
44	CI Manhole cover	IS 1726 (1991)	RPFM (M/s Raj Pattern Makers & founders Pvt. Ltd.), BIC (Bengal iron corporation), Neco (Jayaswal Neco Ltd) OR EQUIVALENT MAKE/PRODUCT
45	Foot Rest (for manhole)		KGM (KGM Exports), Accurate Buildcon (Accurate Build concompany),Neco (Jayaswal Neco Ltd)

			OR EQUIVALENT MAKE/PRODUCT
46	Water stops		Hydrotite (Sika India), Dr. Fixit (Pidilite industries), Ferrous Crete (Ferrous Crete (India) Pvt Ltd.) OR EQUIVALENT MAKE/PRODUCT
47	Aluminium doors/windows sections	IS 733 & IS 1285	Hindalco (Hindalco Industries Ltd.), Jindal (jindal Aluminum Ltd.) or equivalent make/product
48	Glass Reinforced Concrete (GRC) Jali		Terrafirma (Terrafirma GRC Industries), Eco vision Industries Pvt ltd.), Mahesh GRC (Mahesh Prefab Pvt Ltd.) OR EQUIVALENT MAKE/PRODUCT
49	SS Doors & Windows Hardware & Fittings.		JINDAL, Dorma, KICH, Godrej, Ozone OR EQUIVALENT MAKE/PRODUCT
50	Wall Putty		Dalmia, JK , Birla, Asian OR EQUIVALENT MAKE/PRODUCT

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Additional LIST OF MATERIALS/PRODUCT

S. No.	Material/Article	Relevant IS Code	Manufacturers/ Agencies/Brand Make
1	LED		Logic, Xtreme Media, Delta, Unilumin, LG OR EQUIVALENT MAKE/PRODUCT
2	Solar Lighting System	ECBC-2017	WIPRO/Anchor-Panasonic/Philips/TATA BP Solar OR EQUIVALENT MAKE/PRODUCT

Certified that the materials shall be confirm to relevant IS provisions, BIS standard and specifications.