ISO 9001 | ISO 14001
OHSAS 18001
BUREAU VERITAS
Certification

UKAS MANAGEMENT SYSTEMS

HINDUSTHAN URBAN INFRASTRUCTURE LIMITED
Formerly HINDUSTHAN VIDYUTPRODUCTS LIMITED
(An enterprise of THE HINDUSTHAN GROUP)

CONDUCTORS

Global Presence

HINDUSTHAN URBAN INFRASTRUCTURE LIMITED
Formerly HINDUSTHAN VIDYUT PRODUCTS LIMITED
(An enterprise of THE HINDUSTHAN GROUP)

REGD. & HEAD OFFICE
Kanchenjunga, (7th Floor) 18, Barakhamba Road, New Delhi -110001 (INDIA)
Phone: +91-11-23310001 • Fax: +91-11-23313707
CIN No.: L31300DL1959PLC003141 • E-mail: energysales@thehindusthangroup.co.in
www.thehindusthangroup.co.in

Bhubaneswar • Guwahati • Gwalior

About The Group

Contributing to the development of the Indian economy for more than 6 decades, we are proud to be part of The Hindusthan Group, a multi - discipline, multi - location, well diversified industrial conglomerate involved in core sector areas like Engineering, Electricals, Chemicals, Agro Based products, Renewable Energy & Education.

Energy Transmission Division

- We take this opportunity to introduce ourselves as one of India's leading manufacturer of T&D Overhead Conductors (AAC, AAAC, ACAR, ACSR, ACSR/AS, AACSR, AL-59 and all type of "High Temperature Low Sag" Conductors).
- We are driven by our vision of "being a leader in energy transmission solutions with the best in class technology & quality".

Our Company (formerly known as Hindusthan Vidyut Products Limited) has a long and impressive track record of over 54 years catering to the Power Generation, Transmission and Distribution Sector Industry in India & Abroad.

Manufacturing Locations

Gwalior (Central India)	-	Overhead Conductor
Guwahati (East India)	-	Overhead Conductor
Bhubaneswar (East India)	-	Overhead Conductor, Al. Rod/Alloy etc.

All our manufacturing plants are equipped with state of the art manufacturing & in-house testing facilities, being operated by well trained and committed resources with emphasis on Quality & Timely Delivery.

Product Range

We manufacture a wide range of Overhead Conductors as per customer requirements in line with various National / International Specifications like IEC, BS, DIN, ASTM, CS, NEMA etc

- AAC, AAAC, ACSR, ACSR/AS, ACAR & AACSR Overhead Conductors up to 800 KV Lines.
- High conductivity Aluminium Alloy Conductors AL-59 & 1120.
- High Temperature Low Sag Conductors such as TACSR/AW, STACIR/AW, ACSS/TW, GTACSR (Gap Type), Composite Carbon Core etc.
- Aluminium Wire Rods in 1000, 5000, 6000 and 8000 series required for Rivert, Clamps, Clips metalising, Screen Wire, Armour Wire, Aluminium Wire and Conductor Manufacturing etc.

Production Capacity

- AAC, AAAC, ACSR, ACSR/AS, ACAR, AACSR, AL-59,1120 a HTLS Conductors: More Than100000 M.T.
- Aluminium wire rods in 1000, 5000, 6000 and 8000 series required for Rivets, Clamps, Clips Metalizing, Screen Wire, Armour Wire, Aluminium Wire and Conductor Manufacturing Etc. : More Than 25000 M.T. per annum

Management System Certifications

Our continuous and systematic efforts to achieve high standards of quality and management system have already been recognized with the award of - .

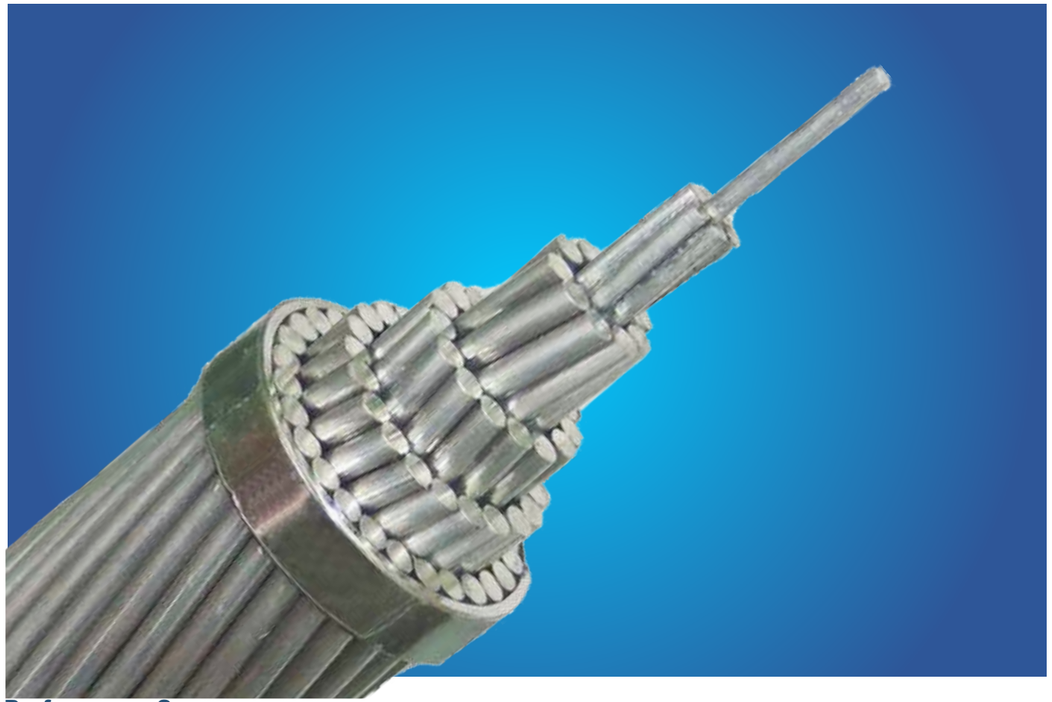
- ISO 9001:2015
- ISO 14001:2015 &
- BS OHSAS 18001:2007 Certificate by BVQI U.K., the International Accrediting Agency.

BIS mark

All our products carry the BIS (Bureau of Indian Standard) mark.

Test & Quality Assurance

We assure Quality at every stage of the process to ensure that only high quality products are produced and delivered. The raw materials are procured from reputed vendors across the globe. All incoming raw material passes through defined inspection procedure.
Our Conductors have been successfully Type Tested in International Laboratories likeCESI- Italy, EDF-France, N EFTA- South Africa and Hydro Quebec-Canada Apart from the above, our Conductors are regularly Type Tested in India as per relevant standards as prescribed by customers at Independent Test Houses such as CPRI - Bengaluru a Bhopal, ERDA-Vadodara, Tag Corporation - Chennai, NTH - Delhi,
NABL approved laboratories etc.



Performance Summary

We have supplied Overhead Conductors across the length and breadth of the country to various Transcoms and Discoms against various orders from reputed customers like Power Grid, National Thermal Power Corporation, Tata Hydro Electric Company, Bharat Heavy Electricals, Damodar Valley Corporation, Orissa Power Generation Corporation, etc and all the State Electricity Boards for their various Power Projects. We have also executed a large number of orders against World Bank / ADB / IBRD / IDA funded contracts to various customers in India against stiff Global competition.

We have also created a strong reputation in overseas markets with export of our products to countries like Afghanistan, Bangladesh, Bhutan, Cyprus, United Arab Emirates, Germany, Ghana, Iran, Italy, Kenya, Libya, Mauritius, Mozambique, Nepal, Nigeria, Philippines, Sri Lanka, Sudan, Sultanate of Oman, Surinam, Sweden, Tajikistan, Tanzania, Trinidad & Tobago, Uganda, Vietnam, Yemen, Yugoslavia, Zambia, Zimbabwe etc. In recognition of our performance we have been honoured by Export Promotion Council a number of times for Export excellence. We have been recognized as an Export House by Joint Director General of Foreign Trade.

In the last few years, we have been concentrating mainly on the manufacture of specialized multi strand bigger size Conductors for EHV transmission lines. We are the first in India to supply ACSR Bersimis conductor to Power Grid for 500 KV Kishenpur- Moga transmission line. Apart from the past track record, we are currently supplying Conductors for 765 / 800 KV transmission lines.
The Company has achieved a turnover of Approx US$ 71 Million during the Fiscal year 2016-17.
We have successfully produced and type tested different variants of High Tension Low Sag (HTLS) Conductors. We are supported by International technology partners in HTLS Conductors and Turnkey Solutions tailor-made to specific customer requirements.

In the last few years we have supplied HTLS conductors - HVCRC carbon core to South Africa, ACSS to Columbia, Poland, and India Market, STACIR - INVAR to PGCIL India, AL-59to Sweden and High Strength Conductors to Georgia and Europian Markets.

HTLS
(High Temperature Low Sag Conductors)

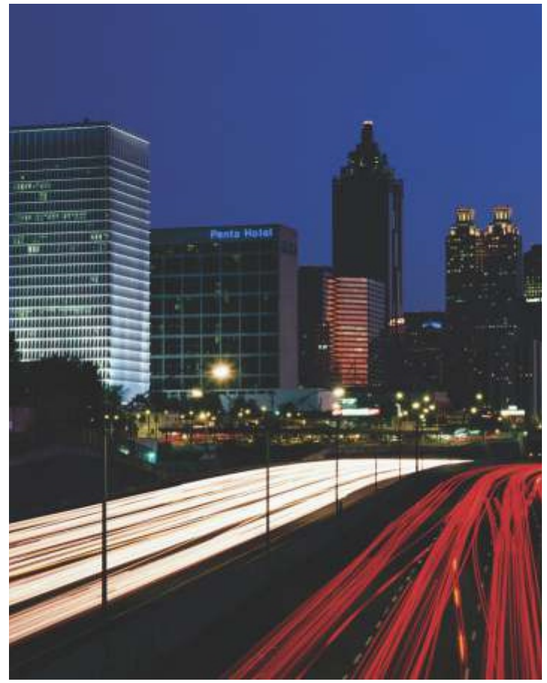
With the increasing requirements of Power transfer due to increase in infrastructure and Right of way issues, HTLS Conductors are emerging out as next generation conductors. HUIL has included these conductors in their portfolios. These conductors are required for following applications

For Reconductoring

Doubling current carrying and power transfer capacity.
Existing towers- No modification

For new lines

Increase in current carrying capacity.
Improvement in corrosion resistance values
Faster project execution
Overall reduction in per unit transmission cost.
Additional capacity availability for future demand.



CONSTRUCTIONAL FEATURES FOR OVERHEAD CONDUCTORS

AAC (All AIuminum Conductors)

Conductor shall be all aluminium stranded circular (as per IEC 61089) or any other International Specification such as BS, ASTM, DIN, Canadian, GOST & Swedish Specification etc.

ACSR (Aluminum Conductor Steel Reinforced)

Conductor shall be aluminium stranded circular with steel reinforced (as per IEC 61089) or any other International Specification, such as BS, ASTM, DIN, Canadian, GOST & Swedish Specification etc.

AAAC (All AIuminum Alloy Conductors)

Conductor shall be all aluminium magnesium silicon alloy stranded circular (as per IEC 61089) or any other International Specification, such as BS, ASTM, DIN, Canadian, GOST & Swedish Specification etc.

AL- 59 Conductors

Aluminium Magnesium Silicon Alloy with minimum 59% conductivity. As compared to ACSR conductor of equivalent diameter or weight is having higher current carrying capacity.

AACSR (Aluminum alloy Conductor Steel Reinforced)

Conductor shall be aluminium magnesium silicon alloy stranded circular with steel reinforced (as per IEC 61089) or any other International Specification, such as BS, ASTM, DIN, Canadian, GOST & Swedish Specification, etc.

HTLS (HIGH TEMPERATURE LOW SAG CONDUCTOR)

ACSS: Aluminium Conductor Steel Supported (ACSS, ACSS/TW)

Fully annealed Aluminium (1350-0) wire round / trapezoidal shape around Aluminium Clad or Zn-5% Aluminium Mischmetal Alloy (Galfan) coated Extra High strength Steel core wire stranded conductors. Suitable for high temperature operation (more than 200°C), having excellent Conductivity-63% IACS, Corrosion resistance & self–damping with Low Sag.

Gap Type Conductor (GTACSR/ GZTACSR)

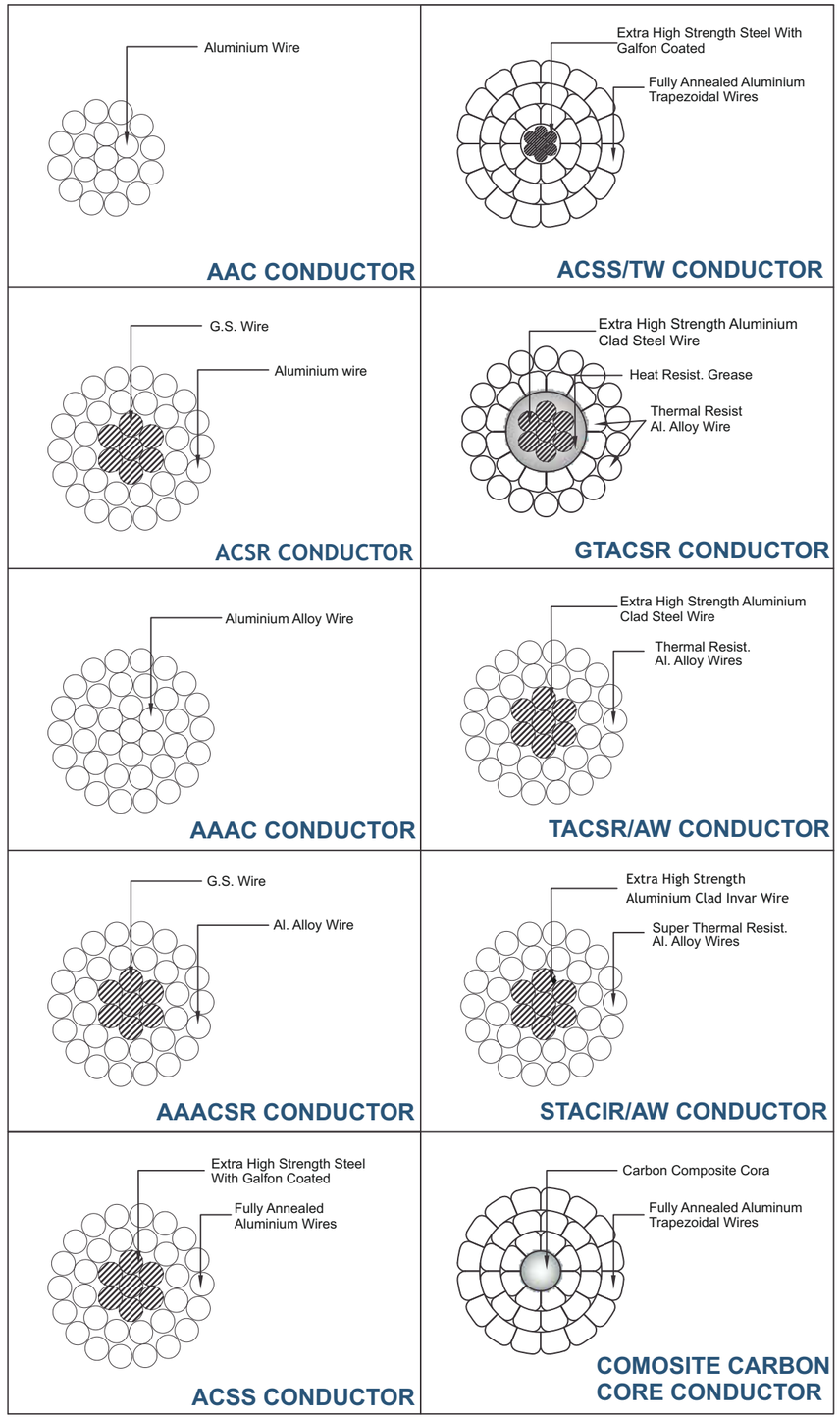
The inner Thermal Resistant Aluminium alloy wire layer is constructed with trapezoidal wires, creating a gap, filled with high temperature resistant grease around Aluminium Clad Extra High Strength Steel Core. Outer Thermal Aluminium Alloy layers could be round or trapezoidal shaped wire.

High Temperature Thermal Resistant Alloy Conductor (TACSR/AW, ZTACSR/AW)

Round/Trapezoidal shaped Thermal Aluminium Alloy wire stranded over Aluminum Clad Extra High Strength Steel wire Core suitable for high temperature operation.

Super Thermal Aluminium Alloy Conductor Aluminium Clad Invar Reinforced (TACIR, STACIR)

Round / Trapezoidal shaped super thermal aluminium alloy wire stranded over Aluminium Clad INVAR alloy wire. Invar alloy contents approx. 36% of nickel and having very low coefficient of thermal expansion.



ALL ALUMINIUM CONDUCTORS (AAC) AS PER IS-398-1: 1996

Code Word	Nominal Aluminium . Area Sq. mm	Stranding & wire dia No./mm	Sectional Area Sq. mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km	Calculated Resistance at 20°C (Max.) Ohm/Km	Approx. Calculated breaking load KN
Gnat	25	7/2.21	26.85	6.63	74	1.096	4.52
Ant	50	7/3.10	52.83	9.30	145	0.5525	8.25
Wasp	100	7/4.39	106.00	13.17	290	0.2752	15.96
Spl. Conductor	150	19/3.18	150.90	15.90	415	0.1942	23.28
Spider	240	19/3.99	237.60	19.95	654	0.1235	35.74
Butter y	300	19/4.65	322.70	23.25	888	0.09107	48.74

ALL ALUMINIUM CONDUCTORS (AAC) AS PER AMERICAN SPECIFICATION ASTM B-231 - 2016

Code Word	Conductor Size cmils/AWG	Stranding & wire dia No./mm	Sectional Area Sq. mm	Overall Diameter mm	Approx. Weight Kg/Km	Ultimate Strength Kg	Approx. Resistance at 20°C (Max.) Ohm/Km
Pansy	(1)	7/2.78	42.39	8.32	116.8	746	0.6752
Poppy	(1/10)	7/3.12	53.48	9.40	147.4	900	0.5351
Aster	(2/0)	7/3.50	67.42	10.51	185.8	1140	0.4245
Lily	(3)	7/2.202	26.66	6.606	73.5	515	1.0760
Oxlip	(4/0)	7/4.42	107.2	13.30	295.6	1840	0.2671
Tulip	336400	19/3.38	170.5	16.91	470.0	2890	0.1690
Hyacinth	500000	37/2.95	253.1	20.70	698.5	4140	0.1138
Orchid	636000	37/3.33	322.2	23.31	888.4	5250	0.0896
Lilac	795000	61/2.90	403.2	26.11	1112	6510	0.0719
Jessamine	1750000	61/4.30	886.9	38.73	2446	13500	0.0326
Cowslip	2000000	91/3.76	1013	41.40	2793	15600	0.0284

ALL ALUMINIUM CONDUCTORS (AAC) AS PER BRITISH SPECIFICATION BS-215-I-1970

Code Word	Conductor Size Sq. mm	Stranding & wire dia No./mm	Sectional Area Sq. mm	Overall Diameter mm	Approx. Weight Kg/Km	Ultimate Strength Kg	Uppngn Resistance at 20°C (Max.) Ohm/Km
Midge	22	7/2.06	23.33	6.18	64	407	1.227
Gnat	25	7/2.21	26.85	6.63	74	468	1.066
Ant	50	7/3.10	52.83	9.30	145	844	0.5419
Fly	60	7/3.40	63.55	10.20	174	1010	0.4505
Wasp	100	7/4.39	106.00	13.17	290	1632	0.2702
Hornet	150	19/3.25	157.60	16.25	434	2620	0.1825
Chafer	200	19/3.78	213.20	18.90	587	3300	0.1349
Cockroach	250	19/4.22	265.70	21.10	731	4120	0.1083
Butterfly	300	19/4.65	322.70	23.25	888	4976	0.08916
Centipede	400	37/3.78	415.20	26.46	1145	6430	0.06944
TARANTULA	795	37/5.23	794.80	36.60	2191	12014	0.03628
BULL	865	61/4.25	864.92	38.25	2400	14169	0.03339

ALL ALUMINIUM CONDUCTORS (AAC) AS PER GERMAN SPECIFICATION DIN 48 201 TEIL 5/1981

Nominal Aluminium . Area Sq. mm	Stranding & wire dia No./mm	Approx. Overall Diameter mm	Sectional Area Sq. mm	Approx. Weight Kg/Km	Approx. Calculated breaking load KN	Calculated Resistance at 20°C (Max.) Ohm/Km
16	7/1.70	5.10	15.89	43	2.84	1.8017
25	7/2.10	6.30	24.25	66	4.17	1.1806
35	7/2.50	7.50	34.36	94	5.78	0.8332
50	7/3.00	9.00	49.48	135	7.94	0.5786
50	19/1.80	9.00	48.35	133	8.44	0.5948
70	19/2.10	10.50	65.81	181	11.32	0.4370
95	19/2.50	12.50	93.27	256	15.67	0.3084
120	19/2.80	14.00	117.00	322	18.77	0.2459
150	37/2.25	15.80	147.11	406	25.29	0.1960
185	37/2.50	17.50	181.62	500	30.54	0.1588
240	61/2.25	20.30	242.54	670	39.40	0.11920
300	61/2.50	22.50	299.43	827	47.69	0.09651
400	61/2.89	26.00	400.14	1104	60.86	0.07222
500	61/3.23	29.10	499.83	1379	74.67	0.05782
625	91/2.96	32.60	626.20	1732	95.24	0.04625
800	91/3.35	36.90	802.09	2218	118.39	0.03611
1000	91/3.74	41.10	999.71	2767	145.75	0.02897

ALL ALUMINIUM CONDUCTORS (AAC)
AS PER CANADIAN SPECIFICATION CAN/CSA - C61089 - 11

Code Word	Stranding & wire dia No./mm	Approx. Overall Diameter mm	Sectional Area Sq. mm	Approx. Weight Kg/Km	Approx. Calculated breaking load KN	Calculated Resistance at 20°C (Max.) Ohm/Km
ROSE	7/1.96	5.89	21.16	58	4.07	1.351
LILY	7/2.20	6.61	26.65	73	5.05	1.072
IRIS	7/2.47	7.42	33.61	92	6.23	0.8497
PANSY	7/2.78	8.33	42.39	116	7.60	0.6739
POPPY	7/3.12	9.36	53.48	146	9.22	0.5341
ASTER	7/3.50	10.51	67.42	184	11.62	0.4236
PHLOX	7/3.93	11.80	85.03	232	14.07	0.3360
OXLIP	7/4.42	13.25	107.23	293	17.75	0.2664
DAISY	7/4.96	14.90	135.16	369	22.36	0.2113
VALERIAN	19/2.91	14.57	126.71	348	22.26	0.2274
LAUREL	19/3.01	15.05	135.16	372	23.78	0.2129
PEONY	19/3.19	15.97	152.00	417	26.19	0.1890
TULIP	19/3.38	16.91	170.45	467	29.38	0.1638
DAFFODIL	19/3.45	17.24	177.35	488	30.56	0.1624
CANNA	19/3.67	18.36	201.42	554	34.04	0.1427
GOLDENTUFT	19/3.91	19.55	228.00	626	37.72	0.1263
COSMOS	19/4.02	20.12	241.68	664	40.02	0.1188
ZINNIA	19/4.12	20.60	253.35	695	41.93	0.1132
DAHLIA	19/4.35	21.73	282.00	774	46.69	0.1018
MEADOWSWEET	37/3.23	22.63	304.00	838	52.43	0.0948
ORCHID	37/3.33	23.31	322.26	888	55.57	0.0896
HEUCHERA	37/3.37	23.56	329.35	908	56.79	0.0876
VERBENA	37/3.49	24.45	354.71	978	61.16	0.0814
VIOLET	37/3.53	24.74	362.58	1000	62.54	0.0797
PETUNIA	37/3.62	25.32	380.00	1048	64.20	0.0758
ARBUTUS	37/3.72	26.06	402.84	1112	68.08	0.0715
ANEMONE	37/3.90	27.33	443.10	1222	73.32	0.0653
COCKSCOMB	37/3.96	27.73	456.06	1257	75.48	0.0633
MAGNOLIA	37/4.08	28.55	483.42	1333	80.00	0.0597
HAWKWEED	37/4.18	29.23	506.71	1396	83.87	0.0568
BLUEBELL	37/4.24	29.72	523.68	1445	86.68	0.0551
MARIGOLD	61/3.43	30.89	563.93	1559	97.22	0.0512
HAWTHORN	61/3.55	31.95	604.26	1670	104.13	0.0479
NACISSUS	61/3.67	33.02	644.51	1781	108.79	0.0450
COLUMBINE	61/3.78	34.01	684.84	1893	115.71	0.0423
CARNATION	61/3.89	35.03	725.10	2004	119.92	0.0400
GLADIOLUS	61/4.00	35.99	765.35	2116	126.59	0.0377
COREOPSIS	61/4.10	36.91	805.68	2226	133.26	0.0358

ALUMINIUM CONDUCTORS STEEL REINFORCED (ACSR)
AS PER IS-398-II: 1996 & IS-398-V: 1992

Code Word	Nominal Aluminium Area Sq. mm	Stranding & wire dia No./mm Alum.	Steel	Sectional Area Sq. mm	Total Sectional Sq. mm	Approx. Overall mm	Approx. Weight Kg/Km Total	Alum.	Steel	Calculated at 20°C (Max.) Ohm/Km	Approx. Calculated breaking load KN
Mole	10	6/1.50	1/1.50	10.60	12.37	4.50	43	29	14	2.780	3.97
Spl. Conductor	18	6/1.96	1/1.96	18.10	21.12	5.88	73	50	23	1.618	6.74
Squirrel	20	6/2.11	1/2.11	20.98	24.48	6.33	85	58	27	1.394	7.61
Weasel	30	6/2.59	1/2.59	31.61	36.88	7.77	128	87	41	0.9289	11.12
Rabbit	50	6/3.35	1/3.35	52.88	61.70	10.05	214	145	69	0.5524	18.25
Raccoon	80	6/4.09	1/4.09	78.83	91.97	12.27	319	217	102	0.3712	26.91
Dog	100	6/4.72	7/1.52	105.00	118.50	14.15	394	288	106	0.2792	32.41
Wolf	150	30/2.59	7/2.59	158.10	194.90	18.13	726	438	288	0.1871	67.34
Panther	200	30/3.00	7/3.00	212.10	261.50	21.00	974	587	387	0.1390	89.67
Kundah	400	42/3.50	7/1.96	404.10	425.20	26.88	1281	1120	161	0.07311	88.79
Zebra	420	54/3.18	7/3.18	428.90	484.50	28.62	1621	1187	434	0.06868	130.32
Moose	520	54/4.13	7/3.53	528.50	597.00	31.77	1998	1465	539	0.05595	159.60
Markulla	560	42/4.13	7/2.30	562.70	591.70	31.68	1781	1559	228	0.05231	120.16
Bersimis	690	42/4.57	7/2.54	688.90	724.40	35.04	2187	1907	280	0.04242	146.87

ALUMINIUM CONDUCTORS STEEL REINFORCED (ACSR)
AS PER BRITISH SPECIFICATION BS-215-II-1970

ACSR Code World	Conductorl Size Sq. mm	Stranding & wire dia No./mm		Calculated Sectional Area Sq.mm		Overall Diameter mm	Approx. Weight. kg/km			Ultimate Strength Kg	Calculated Resistance at 20°C (Max.) Ohm/Km
		Alum.	Steel	Alum.	ACSR	ACSR	ACSR	Alum.	Steel		
Gopher	25	6/2.36	1/2.36	26.24	30.62	7.08	106	72	34	980	1.093
Weasel	30	6/2.59	1/2.59	31.61	36.88	7.77	128	87	41	1170	0.9077
Fox	35	6/2.79	1/2.79	36.68	42.80	8.37	148	101	47	1340	0.7822
Ferret	40	6/3.00	1/3.00	42.41	49.48	9.00	172	117	55	1550	0.6766
Rabbit	50	6/3.35	1/3.35	52.88	61.70	10.05	214	145	69	1870	0.5426
Mink	60	6/3.66	1/3.66	63.17	72.64	10.98	255	173	82	2220	0.4546
Horse	70	12/2.79	7/2.79	73.37	116.20	13.95	538	203	335	6240	0.3936
Dog	100	6/4.72	7/1.57	105.00	118.50	14.15	394	288	106	3330	0.2733
Coyote	130	26/2.54	7/1.91	131.70	151.80	15.89	521	364	157	4730	0.2191
Wolf	150	30/2.59	7/2.59	158.10	194.90	18.13	726	437	289	7060	0.1828
Lynx	175	30/2.79	7/2.79	183.40	226.20	19.53	842	507	335	8140	0.1576
Panther	200	30/3.00	7/3.00	212.10	261.50	21.00	974	586	388	9430	0.1363
Jaguar	200	18/3.86	1/3.86	210.60	222.30	19.30	671	580	91	4750	0.1367
Goat	320	30/3.71	7/3.71	324.30	400.00	25.97	1489	896	593	13850	0.08912
Bison	380	54/3.00	7/3.00	381.70	431.20	27.00	1443	1055	888	12330	0.07574
Zebra	400	54/3.18	7/3.18	428.90	484.50	28.62	1622	1186	436	13450	0.06740
Deer	425	30/4.27	7/4.27	429.60	529.80	29.89	1973	1187	786	16210	0.06727
Moose	525	54/3.53	7/3.53	528.50	597.00	31.71	1998	1461	537	16420	0.05470

ALUMINIUM CONDUCTORS STEEL REINFORCED (ACSR)
AS PER GERMAN SPECIFICATION DIN 48.204/1974

Nominal Size. Sq. mm	Stranding & wire dia No./mm		Approx. Overall Diameter mm	Sectional Area Sq. mm		Total Sectional Area Sq. mm	Approx. Weight Kg/Km			Approx. Calculated breaking load KN	Calculated Resistance at 20°C (Max.) Ohm/Km
	Alum.	Steel		Alu.	St.		ACSR	Alum.	Steel		
16/2.5	6/1.80	1/1.80	5.40	15.30	2.55	17.85	42	20	62	5.83	1.8750
25/4.0	6/2.25	1/2.25	6.80	23.80	4.00	27.80	65	32	97	9.02	1.2060
35/6.0	6/2.70	1/2.70	8.10	34.30	5.70	40.00	94	46	140	12.41	0.8365
44/32	14/2.0	7/2.40	11.20	44.00	31.70	75.70	122	250	372	44.14	0.6570
50/8	6/3.20	1/3.20	9.60	48.30	8.00	56.30	132	64	196	16.77	0.5941
50/30	12/2.3	7/2.33	11.65	51.20	29.80	81.00	141	237	378	42.96	0.5642
70/12	26/1.5	7/1.44	11.70	69.90	11.40	81.30	193	91	284	26.29	0.4130
95/15	26/2.5	7/1.67	13.60	94.40	15.30	109.70	260	123	383	35.07	0.3058
95/55	12/3.0	7/3.20	16.00	96.50	56.30	152.80	266	446	712	77.84	0.2992
105/75	14/3.0	19/2.5	17.50	105.70	75.50	181.50	292	599	891	106.38	0.2735
120/20	26/2.4	7/1.90	15.50	121.60	19.80	141.40	336	158	494	4.78	0.2374
120/70	12/3.0	7/3.60	18.00	122.00	71.30	193.30	337	564	901	98.10	0.2367
125/30	30/2.3	7/2.33	16.10	127.90	29.80	157.70	353	238	591	56.50	0.2259
150/25	26/2.0	7/2.10	17.10	148.90	24.20	173.10	411	194	605	54.20	0.1939
170/40	30/2.0	7/2.70	18.90	71.80	40.10	211.90	475	319	794	75.29	0.1682
185/30	26/3.0	7/2.33	19.00	183.80	29.80	213.60	507	239	746	64.94	0.1571
210/35	26/3.0	7/2.49	20.30	209.10	34.10	243.20	577	273	850	73.47	0.1380
210/50	30/3.0	7/3.00	21.00	212.10	49.50	261.60	587	94	981	92.11	1.1362
230/30	24/3.0	7/2.33	21.00	230.90	29.80	260.70	638	239	877	7.16	0.1249
240/40	26/3.5	7/2.68	21.90	243.00	39.50	282.50	671	316	987	84.75	0.1188
265/35	24/3.4	7/2.49	22.40	263.7	34.1	297.8	728	274	1002	81.47	0.10940
300/50	26/3.6	7/3.00	24.50	304.3	49.5	353.8	840	396	1236	104.96	0.09486
305/40	54/2.8	7/2.68	24.10	304.6	39.5	344.1	843	317	1160	97.51	0.09490
340/30	48/3.0	7/2.33	25.00	339.3	29.8	369.1	938	242	1180	91.13	0.08508
380/50	54/3.0	7/3.00	27.00	382.0	49.5	431.5	1056	397	1453	120.70	0.07568
385/35	48/3.0	7/2.49	26.70	386.0	34.1	420.1	1067	277	1344	102.80	0.07479
435/55	54/3.0	7/3.20	28.80	434.3	56.3	490.6	1203	450	1653	133.80	0.06686
450/40	48/3.5	7/2.68	28.70	448.7	39.5	488.2	1241	320	1561	118.45	0.06434
490/65	54/3.0	7/3.40	30.60	490.3	63.6	553.9	1356	510	1866	150.19	0.05896
495/35	45/3.4	7/2.49	29.90	494.1	34.1	528.2	1369	277	1646	119.50	0.05846
510/45	48/3.8	7/2.87	30.70	510.2	45.3	555.5	1413	365	1778	134.00	0.05661
550/70	4/3.0	7/3.60	32.40	550.0	71.3	621.3	1520	572	2092	167.35	0.05256
560/50	48/3.6	7/3.00	32.20	561.7	49.5	611.2	1553	401	1954	146.12	0.05140
570/40	45/4.2	7/2.68	32.20	571.2	39.5	610.7	1571	317	1888	133.61	0.05057
650/45	45/4.0	7/2.87	34.00	653.5	45.3	698.8	1806	365	2171	152.54	0.04420
680/85	54/4.0	19/2.0	36.00	678.6	86.0	764.6	1868	702	2570	202.33	0.04259
1045/45	72/4.0	7/2.87	43.00	1045.6	45.3	1090.9	2893	358	3251	213.46	0.02765

ALUMINIUM CONDUCTORS STEEL REINFORCED (ACSR)
AS PER CANADIAN SPECIFICATION CAN/CSA - C61089 - 11

Code Name	Stranding & wire dia No./mm		Approx. Overall Diameter mm	Sectional Area Sq. mm		Total Sectional Area Sq. mm	Approx. Weight Kg/Km			Approx. Calculated breaking load KN	Calculated Resistance at 20°C (Max.) Ohm/Km
	Alum.	Steel		Alu.	St.		ACSR	Alu.	Steel		
WREN	6/1.33	1/1.33	3.99	8.39	1.42	9.81	23	11	34	3.33	3.4226
WRABLER	6/1.50	1/1.50	4.50	10.59	1.77	12.36	29	14	43	4.16	2.7139
TURKEY	6/1.68	1/1.68	5.04	13.29	2.19	15.48	37	17	54	5.19	2.1535
THRUSH	6/1.89	1/1.89	5.67	16.77	2.77	19.54	46	22	68	6.47	1.7077
SWAN	6/2.12	1/2.12	6.36	21.16	3.55	24.71	58	27	85	8.14	1.3537
SWALLOW	6/2.38	1/2.38	7.14	26.65	4.45	31.09	73	35	108	10.05	1.0738
SPARROW	6/2.67	1/2.67	8.01	33.61	5.61	39.22	92	44	136	12.44	0.8504
ROBIN	6/3.00	1/3.00	9.00	42.39	7.10	49.49	116	55	171	15.54	0.6752
RAVEN	6/3.37	1/3.37	10.11	53.48	8.90	62.38	146	69	215	19.03	0.5251
QUAIL	6/3.78	1/3.78	11.34	67.42	11.23	78.65	185	88	273	23.78	0.4245
PIGEON	6/4.25	1/4.25	12.75	85.03	14.19	99.22	233	110	343	29.72	0.3366
PENGUIN	6/4.77	1/4.77	14.31	107.23	17.87	125.10	294	139	433	37.47	0.2671
OWL	6/5.36	7/1.79	16.09	135.16	17.55	152.71	371	137	508	42.47	0.2119
WAXWING	18/3.9	1/3.09	15.45	135.16	7.48	142.54	372	58	430	31.49	0.2126
PARTRIDGE	26/2.7	7/2.00	16.28	135.16	22.00	157.16	374	171	545	50.03	0.2136
PHOEBE	18/3.8	1/3.28	16.40	152.00	8.45	160.45	418	65	483	35.51	0.1893
OSTRICH	26/2.3	7/2.12	17.28	152.00	24.71	176.71	420	193	613	56.21	0.1900
PIPER	30/2.4	7/2.54	17.78	152.00	35.48	187.48	420	277	697	68.67	0.1903
MERLIN	18/3.7	1/3.47	17.35	170.45	9.48	179.93	469	74	54	339.82	0.1686
LINNET	26/2.9	7/2.25	18.31	170.45	27.81	198.26	470	217	687	62.54	0.1696
IBIS	26/3.4	7/2.44	19.88	201.42	32.77	234.19	557	256	813	72.00	0.1434
LARK	30/2.2	7/2.92	20.44	201.42	46.97	248.39	557	366	923	88.87	0.1437
PELICAN	18/4.4	1/4.14	20.70	241.68	13.42	255.10	665	104	769	54.78	0.1191
HAWK	26/3.4	7/2.67	21.77	241.68	39.42	281.10	667	308	975	86.52	0.1194
HEN	30/3.0	7/3.20	22.40	241.68	56.39	298.07	688	440	1128	103.88	0.1198
HERON	30/3.8	7/3.28	22.96	253.35	59.10	312.45	701	461	1162	108.79	0.1142
SAPSUCHER	22/4.4	7/2.24	22.88	282.00	27.68	309.68	777	216	993	79.11	0.1024
DOVE	26/3.2	7/2.89	23.55	282.00	45.94	327.94	778	359	1137	99.91	0.1024
EAGLE	30/3.6	7/3.46	24.22	282.00	65.81	347.81	780	513	1293	121.25	0.1027
DUCK	54/2.9	7/2.69	24.21	306.58	39.81	346.39	848	311	1159	100.11	0.0945
GROSBEAK	26/3.7	7/3.09	25.15	322.26	52.45	374.71	890	409	1299	111.24	0.0896
EGRET	30/3.0	19/2.2	25.90	322.26	73.55	395.81	891	576	1467	140.57	0.0896
GOOSE	54/2.6	7/2.76	24.84	322.26	41.74	364.00	891	326	1217	105.26	0.0899
GULL	54/2.2	7/2.82	25.38	337.74	43.81	381.55	935	342	277	109.23	0.0856
STARLING	26/4.1	7/3.28	26.68	362.58	59.03	421.61	1002	460	1462	125.02	0.0797
REDWING	30/3.2	19/2.5	27.43	362.58	82.58	445.16	1002	646	1648	153.96	0.0797
CROW	54/2.2	7/2.92	26.28	362.58	46.97	409.55	1003	366	1369	117.22	0.0797
DRAKE	26/4.4	7/3.45	28.11	402.84	65.61	468.45	1112	512	1624	139.05	0.0715
MALLARD	30/4.4	19/2.8	28.96	402.84	91.87	494.71	1113	719	1832	171.08	0.0719
CONDOR	54/3.8	7/3.08	27.72	402.84	52.19	455.03	1113	408	1521	127.03	0.0719
CRANE	54/3.3	7/3.23	29.07	443.10	57.48	500.58	1226	448	1674	139.69	0.0653
CANARY	54/3.8	7/3.28	29.52	456.06	59.10	515.16	1262	462	1724	143.71	0.0633
CARDINAL	54/3.8	7/3.38	30.42	483.42	62.65	546.07	1338	488	1826	152.39	0.0597
CURLEW	54/3.1	7/3.51	31.59	523.68	67.87	591.55	1448	530	1978	165.29	0.0551
FINCH	54/3.5	19/2.9	32.85	563.93	71.55	636.48	1561	560	2121	178.88	0.0512
GRACKEE	54/3.7	19/2.7	33.97	604.26	76.58	680.84	1671	600	2271	191.78	0.0479
PHEASANT	54/3.0	19/2.4	35.10	644.51	81.68	726.19	1783	538	2421	199.33	0.0449
MARTIN	54/4.2	19/2.1	36.17	684.84	86.71	771.55	1894	679	2573	211.79	0.0432
PLOVER	54/4.4	19/2.8	37.24	725.10	91.87	816.97	2006	719	2725	224.25	0.0400
PARROT	54/4.5	19/2.5	38.25	765.35	96.84	862.19	2118	759	2877	237.15	0.0377
FALCON	54/4.6	19/2.2	39.26	805.68	102.13	907.81	2229	799	3028	249.61	0.0358

ALUMINIUM CONDUCTORS STEEL REINFORCED (ACSR)
AS PER AMERICAN SPECIFICATIONS ASTM B - 232 - 1992

ACSR Code Word	Conductorl Size Sq. mm	Stranding & wire dia No./mm		Calculated Sectional Area Sq.mm		Overall Diameter mm ACSR	Approx. Weight. Kg/Km			Ultimate Strength Kg	Calculated Resistance at 20°C (Max.) Ohm/Km
		Alum.	Steel	Alum.	ACSR		ACSR	Alum.	Steel		
Sparrow	(2)	6/2.67	1/2.67	33.61	39.22	8.01	136.0	92	44	1295	0.853
Swallow	(3)	6/2.38	1/2.38	26.65	31.10	7.14	108	73	35	1040	1.076
Raven	(1/0)	6/3.37	1/3.37	53.48	62.38	10.11	216	147	69	1990	0.5364
Penguin	(4/0)	6/4.77	1/4.77	107.23	125.10	14.31	433	294	139	3800	0.2676
Merlin	336400	18/3.47	1/3.47	170.45	179.90	17.36	544	470	74	3930	0.1692
Ibis	397500	26/3.14	7/2.44	201.40	234.00	19.88	814	558	256	7380	0.1438
Pelican	477000	18/4.14	1/4.14	241.68	255.10	20.70	771	666	105	5350	0.1193
Hawk	477000	26/3.43	7/2.67	241.70	280.80	21.78	976	90	307	8880	0.1194
Grosbeak	636000	26/3.97	7/3.08	322.26	374.78	25.15	1303	893	400	11500	0.08989
Drake	795000	26/4.44	7/3.45	402.80	466.84	28.11	1628	1116	512	14300	0.07192
Coot	795000	36/3.77	1/3.77	402.80	414.00	26.42	1197	1110	87	7610	0.07134
Mallard	795000	30/4.14	19/2.48	402.84	494.71	8.96	1839	1119	719	17450	0.07208
Rail	954000	45/3.70	7/2.47	483.42	516.84	29.61	1600	1339	260	12020	0.05994
Cardinal	954000	54/3.38	7/3.38	483.42	546.07	30.42	1829	1339	490	5500	0.05994
Curlew	1033500	54/3.52	7/3.52	523.68	591.55	31.68	1981	1451	530	16700	0.05531
Falcon	1590000	54/4.36	19/2.62	805.80	908.12	39.26	3042	2243	799	25000	0.03612

ALL ALUMINIUM ALLOY CONDUCTOR (AAAC)
AS PER IS: 398-IV - 1994

Actual Area Sq. mm	Standing and Wire Dia Nos./mm	Approx. overall dia mm	Approx. Kg/Km	Calculated Resistance Breaking Load Ohm/Km	Approx. Calculated at 20°C (Max.) KN
15	3/2.50	5.39	40.15	2.3040	4.33
22	7/2.00	6.00	60.15	1.5410	6.45
34	7/2.50	7.50	94.00	0.9900	10.11
55	7/3.15	9.45	149.20	0.6210	16.03
80	7/3.81	11.43	18.26	0.4250	23.41
100	7/4.26	12.78	272.86	0.3390	29.26
125	19/2.89	14.45	342.51	0.2736	36.64
148	19/3.15	15.75	406.91	0.2290	43.50
173	19/3.40	17.00	474.02	0.1969	50.54
200	19/3.66	18.30	549.40	0.1710	58.66
232	19/3.94	19.70	636.67	0.1471	68.05
288	37/3.15	22.05	794.05	0.1182	84.71
346	37/3.45	24.15	952.56	0.0984	101.58
400	37/3.71	25.97	1101.63	0.0829	117.40
465	37/4.00	28.00	1280.50	0.0734	136.38
525	61/3.31	29.79	1448.39	0.0651	146.03
570	61/3.45	31.05	1573.71	0.0598	158.66
604	61/3.55	31.95	1666.00	0.0568	167.99
642	61/3.66	32.94	1771.36	0.0534	178.43
695	61/3.81	34.29	1919.13	0.0492	193.25
767	61/4.00	36.00	2115.54	0.0446	213.01

ALL ALUMINIUM ALLOY CONDUCTOR (AAAC)
AS PER BRITISH SPECIFICATION BS: 3242 - 1970

Code Word	Nominal Aluminium Area Sq. mm	Stranding & wire dia No./mm	Sectional Area Sq. mm	Overall Diameter mm	Approx. Weight Kg/Km	Calculated Breaking Load Kg	Calculated Resistance at 20°C (Max.) Ohm/Km
Almond	25	7/2.34	30.10	7.02	82	8.44	1.094
Cedar	30	7/2.54	35.50	7.62	97	9.94	0.9281
Fir	40	7/2.95	47.84	8.85	131	13.40	0.6880
Hazel	50	7/3.30	59.90	9.90	164	16.80	0.5498
Oak	100	7/4.65	118.9	13.95	325	33.30	0.2769
Ash	150	19/3.48	180.7	17.40	497	50.77	0.1830
Elm	175	19/3.76	211.0	18.80	580	59.10	0.1568
Upas	300	37/3.53	362.1	24.71	997	101.50	0.09155

ALL ALUMINIUM ALLOY CONDUCTORS (AAAC)
AS PER AMERICAN SPECIFICATIONS ASTM B - 399 - 2016

Conductor	Stranding & wire dia No./mm	Sectional Area Sq. mm	Approx. Overall Diameter mm	Approx. Mass Kg/Km	Calculated Resistance at 20°C (Max.) Ohm/Km	Rated Strength KN	Class
MCM 30.58	7/1.68	15.52	5.04	43	2.163	4.85	A
MCM 48.69	7/2.12	24.71	6.36	68	1.356	7.75	A
MCM 77.47	7/2.67	39.19	8.01	108	0.8540	12.31	A
MCM 123.30	7/3.37	62.44	10.11	172	0.5371	19.62	AA, A
MCM 155.40	7/3.78	78.55	11.34	217	0.4259	23.70	AA, A
MCM 195.7	7/4.25	99.30	12.75	274	0.3376	29.9	AA, A
MCM 246.9	7/4.77	125.10	14.31	345	0.2677	37.7	A
MCM 312.8	19/3.26	158.59	14.30	437	0.2113	47.2	A
MCM 394.5	19/3.66	199.90	18.30	551	0.1677	57.1	AA, A
MCM 465.0	19/3.98	236.38	19.90	650	0.1421	67.3	AA
MCM 559.5	19/4.36	283.67	21.80	781	0.1181	80.9	AA
MCM 652.5	19/4.71	331.05	23.55	911	0.1014	94.4	AA
MCM 740.8	37/3.59	374.53	25.13	1034	0.0892	107	AA
MCM 927.2	7/4.02	469.62	28.14	1295	0.0712	134	AA
MCM 1077.4	61/3.38	545.90	30.42	1495	0.0613	156	AA
MCM 1164.1	61/3.51	590.30	31.59	1617	0.0568	169	AA
MCM 1259.6	61/3.65	638.20	32.85	1748	0.0526	182	AA
MCM 1348.8	61/3.78	683.40	34.02	1872	0.0490	195	AA
MCM 1439.2	61/3.90	729.20	35.10	1997	0.0461	208	AA

ALL ALUMINIUM ALLOY CONDUCTOR (AAAC)
AS PER GERMAN SPECIFICATION DIN 48 201 TEIL 6/1981

Nominal Aluminium Sq. mm	Stranding & wire dia No./mm	Approx. Overall Diameter mm	Sectional Area Sq. mm	Approx. Weight Kg/Km	Approx. Calculated breaking load KN	Calculated Resistance at 20°C (Max.) Ohm/Km
16	7/1.70	5.10	15.89	43	4.44	2.0910
25	7/2.10	6.30	24.25	66	6.77	1.3720
35	7/2.50	7.50	34.36	94	9.60	0.9670
50	7/3.00	9.00	49.48	135	13.82	0.6716
50	19/1.80	9.00	48.35	133	13.50	0.6893
70	19/2.10	10.50	65.81	181	18.38	0.5079
95	19/2.50	12.50	93.27	256	26.05	0.3580
120	19/2.80	14.00	117.00	322	32.68	0.2853
150	37/2.25	15.80	147.11	406	41.09	0.2278
185	37/2.50	17.50	181.62	500	50.73	0.1842
240	61/2.25	20.30	242.54	670	67.74	0.1385
300	61/2.50	22.50	299.43	827	83.63	0.1119
400	61/2.89	26.00	400.14	1104	111.76	0.08407
500	61/3.23	29.10	499.83	1379	139.60	0.06713
625	91/2.96	32.60	626.20	1732	174.90	0.05375
800	91/3.35	36.90	802.09	2218	224.02	0.04197
1000	91/3.74	41.10	999.71	2767	279.22	0.03360

ALL ALUMINIUM CONDUCTORS (AAC)
AS PER IEC 61089 - 1991 (TYPE A1)

Code number	Area	Number of wires	Approx. Diameter		Approx. Weight	Approx. Calculated breaking load	Calculated Resistance at 20°C (Max.)
			Wire	Conductor			
	mm^2		mm	mm	kg / km	kN	Ohm/km
10	10	7	1.35	4.05	27.4	1.95	2.8633
16	16	7	1.71	5.12	43.8	3.04	1.7896
25	25	7	2.13	6.40	68.4	4.50	1.1453
40	40	7	2.70	8.09	109.4	6.80	0.7158
63	63	7	3.39	10.20	172.3	10.39	0.4545
100	100	19	2.59	12.90	274.8	17.00	0.2877
125	125	19	2.89	14.50	343.6	21.25	0.2302
160	160	19	3.27	16.40	439.8	26.40	0.1798
200	200	19	3.66	18.30	549.7	32.00	0.1439
250	250	19	4.09	20.50	687.1	40.00	0.1151
315	315	37	3.29	23.00	867.9	51.97	0.0916
400	400	37	3.71	26.00	1102.0	64.00	0.0721
450	450	37	3.94	27.50	1239.8	72.00	0.0641
500	500	37	4.15	29.00	1377.6	80.00	0.0577
560	560	37	4.39	30.70	1542.9	89.60	0.0515
630	630	61	3.63	32.60	1739.3	100.80	0.0458
710	710	61	3.85	34.60	1959.1	113.60	0.0407
800	800	61	4.09	36.80	2207.4	128.00	0.0361
900	900	61	4.33	39.00	2488.3	144.00	0.0321
1000	1000	61	4.57	41.10	2759.2	160.00	0.0289
1120	1120	91	3.96	43.50	3093.5	179.20	0.0258
1250	1250	91	4.18	46.00	3452.6	200.00	0.0231
1400	1400	91	4.43	48.70	3866.9	224.00	0.0207
1500	1500	91	4.58	50.40	4143.1	240.00	0.0193

ALUMINIUM ALLOY CONDUCTOR STEEL REINFORCED (AACSR)
AS PER IEC 61089 - 1991

Code number	Steel ratio	Areas			No. of wires		Wire Diameter		Diameter		Linear mass	Rated strength	D.C. Resistance
		Alum.	Steel	Total	Al	St.	Alum.	Steel	Core	Cond.			
	%	mm^2	mm^2	mm^2			mm	mm	mm	Mm	kg/km	kN	Ohm/km
16	17	18.4	3.07	21.5	6	1	1.98	1.98	1.98	5.93	74.4	9.02	1.7934
25	17	28.8	4.80	33.6	6	1	2.47	2.47	2.47	7.41	116.2	13.96	1.1478
40	17	46.0	7.67	53.7	6	1	3.13	3.13	3.13	9.38	185.9	22.02	0.7174
63	17	72.5	12.1	84.6	6	1	3.92	3.92	3.92	11.8	292.8	34.68	0.4555
100	6	115	6.39	121	18	1	2.85	2.85	2.85	14.3	366.4	41.24	0.2880
125	6	144	7.99	152	18	1	3.19	3.19	3.19	16.0	458.0	51.23	0.2304
125	16	144	23.4	167	26	7	2.65	2.06	6.19	16.8	579.9	69.86	0.2310
160	6	184	10.2	194	18	1	3.61	3.61	3.61	18.0	586.2	65.58	0.1800
160	16	184	30.0	214	26	7	3.00	2.34	7.01	19.0	742.3	88.52	0.1805
200	6	230	12.8	243	18	1	4.04	4.04	4.04	20.2	732.8	81.97	0.1440
200	16	230	37.5	268	26	7	3.36	2.61	7.83	21.3	927.9	110.64	0.1444
250	10	288	28.3	316	22	7	4.08	2.27	6.80	23.1	1013.5	117.09	0.1154
250	16	288	46.9	335	26	7	3.75	2.92	8.76	23.8	1159.8	138.31	0.1155
315	7	363	25.1	388	45	7	3.20	2.14	6.41	25.6	1196.5	136.28	0.0917
315	16	363	59.0	422	26	7	4.21	3.28	9.83	26.7	1461.4	171.90	0.0917
400	7	460	31.8	492	45	7	3.61	2.41	7.22	28.9	1519.4	172.10	0.0722
400	13	460	59.7	520	54	7	3.29	3.29	9.88	29.7	1738.3	201.46	0.0723
450	7	518	35.8	554	45	7	3.83	2.55	7.66	30.6	1709.3	193.61	0.0642
450	13	518	67.1	585	54	7	3.49	3.49	10.5	31.5	1955.6	226.64	0.0643
500	7	575	39.8	615	45	7	4.04	2.69	8.07	32.3	1899.3	215.12	0.0578
500	13	575	74.6	650	54	7	3.68	3.68	11.1	33.2	2172.9	251.82	0.0578
560	7	645	44.6	689	45	7	4.27	2.85	8.54	34.2	2127.2	240.93	0.0516
560	13	645	81.6	726	54	19	3.90	2.34	11.7	35.1	2420.9	283.21	0.0516
630	4	725	31.3	756	72	7	3.58	2.39	7.16	35.8	2248.0	249.62	0.0459
630	13	725	91.8	817	54	19	4.13	2.48	12.4	37.2	2723.5	318.61	0.0459
710	4	817	35.3	852	72	7	3.80	2.53	7.60	38.0	2533.4	281.32	0.0407
710	13	817	104	921	54	19	4.39	2.63	13.2	39.5	3069.4	359.06	0.0407
800	4	921	39.8	961	72	7	4.04	2.69	8.07	40.4	2854.6	316.98	0.0361
800	8	921	76.7	997	84	7	3.74	3.74	11.2	41.1	3145.1	356.03	0.0362
900	4	1036	44.8	1081	72	7	4.28	2.85	8.56	42.8	3211.4	356.60	0.0321
900	8	1036	86.3	1122	84	7	3.96	3.96	11.9	43.6	3538.3	400.53	0.0322
1000	8	1151	93.7	1245	84	19	4.18	2.51	12.5	45.9	3916.8	446.37	0.0289
1120	8	1289	105	1394	84	19	4.42	2.65	13.3	48.6	4386.8	499.93	0.0258

BUREAU VERITAS
Certification

HINDUSTHAN URBAN INFRASTRUCTURE LIMITED
(Formerly HINDUSTHAN VIDYUT PRODUCTS LIMITED)
(An enterprise of THE HINDUSTHAN GROUP)

CORPORATE OFFICE:
"KANCHENJUNGA", (7TH FLOOR) 18, BARAKHAMBA ROAD, NEW DELHI – 110 001, INDIA.

This is a multi-site certificate, additional site details are listed in the appendix to this certificate

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the Management System standard detailed below.

Standards

ISO 9001:2015, ISO 14001:2015 & BS OHSAS 18001:2007

Scope of certification

DESIGN, SALES & MARKETING, MANUFACTURING AND DISPATCH OF

- **OVERHEAD CONDUCTORS AAC, AAAC, ACSR, AACSR, AL-59 AND HTLS UPTO 800 KV LINES**
- **ALUMINIUM & ALUMINIUM ALLOY WIRE RODS**

Original cycle start date for QMS: **01 September 1994**
Original cycle start date for EMS: **19 July 2011**
Original cycle start date for OHSAS: **11 February 2014**
Expiry date of previous cycle: **10 February 2017**
Recertification Audit date: **06 December 2016**
Recertification cycle start date: **07 February 2017**

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **10 February 2020**

Certificate No. **IND17.5549/U** Version: **1** Revision date: **07 February 2017**

Signed on behalf of BVCH SAS UK Branch
Ramesh KOREGAVE
Director, CERTIFICATION
South Asia Region

UKAS MANAGEMENT SYSTEMS
008

Certification body address: *5th Floor, 66 Prescot Street, London, E1 8HG, United Kingdom.*

Local office: *"Marwah Centre" 6th Floor, Krishanlal Marwah Marg, Opp. Ansa Industrial Estate, Off Saki Vihar Road, Andheri (East), Mumbai – 400 072, India.*

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization.
To check this certificate validity please call **+91 22 6695 6300.**

BUREAU VERITAS
Certification

Appendix to the certification

HINDUSTHAN URBAN INFRASTRUCTURE LIMITED
(Formerly HINDUSTHAN VIDYUT PRODUCTS LIMITED)
(An enterprise of THE HINDUSTHAN GROUP)

Standards

ISO 9001:2015, ISO 14001:2015 & BS OHSAS 18001:2007

Scope of certification

CORPORATE OFFICE: DESIGN, SALES & MARKETING OF -

- **OVERHEAD CONDUCTORS AAC, AAAC, ACSR, AACSR, AL-59 AND HTLS UPTO 800 KV LINES**
- **ALUMINIUM & ALUMINIUM ALLOY WIRE RODS**

SITE	ADDRESS	SCOPE
SITE 1	INDUSTRIAL AREA, PO - BIRLA NAGAR, GWALIOR – 474 004, (MADHYA PRADESH), INDIA.	MANUFACTURING AND DESPATCH OF - ▪ OVERHEAD CONDUCTORS AAC, AAAC, ACSR, AACSR, AL-59 AND HTLS UPTO 800 KV LINES
SITE 2	1C, BRAHMAPUTRA INDUSTRIAL PARK, VILL. SILA, SINDURI GHOPA, DIST. KAMRUP, NORTH GUWAHATI – 781 031, (ASSAM), INDIA.	MANUFACTURING AND DESPATCH OF - ▪ OVERHEAD CONDUCTORS AAC, AAAC, ACSR, AACSR, AL-59 AND HTLS UPTO 800 KV LINES
SITE 3	321, 325 / 1386, CHAMPAJHARA, MALIPADA, KHURDA – 752 018, (ODISHA), INDIA.	MANUFACTURING AND DESPATCH OF - ▪ OVERHEAD CONDUCTORS AAC, AAAC, ACSR, AACSR, AL-59 AND HTLS UPTO 800 KV LINES ▪ ALUMINIUM & ALUMINIUM ALLOY WIRE RODS

Certificate No. IND17.5549/U **Version: 1** Revision date: **07 February 2017**

Signed on behalf of BVCH SAS – UK Branch
Ramesh KOREGAVE
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UKAS MANAGEMENT SYSTEMS
008

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