

Mr.S.K.SURENDRAN.

Mobile :- +91 7397389103.

E-mail :- sk_srndrn2006@yahoo.co.in.

Social Web : www.linkedin.com/in/sockalingam-surendran-42096728.

**MULTIDISCIPLINE EXPERIENCE OVER ALL 25.4 YEARS OF POWER PLANT – 5 YEARS & SUBSTATION 8 YEARS (T&C),
AUTOMOBILE MANUFACTURING IN ELECTRICAL & MECHATRONICS MAINTENANCE 12.7 YEARS.**



PERSONAL DETAILS

Name : S.K.SURENDRAN

Date of Birth : 12-12-1972.

Nationality : Indian.

Sex : Male.

Marital Status: Married.

**Languages Know: Sowrastra,
Tamil, and English & Hindi.**

Driving license:

**Issue at : LMV&MCWG.
(Chennai).**

Expiry On : 13-08-2030.

**Issue at : Light GCC (Oman).
Expiry On : 07-10-2022.**

Permanent address:

**No: 49/31, Subrabhatam
apartment, College Road
Street. I-floor-A1,
Palavanthgal.
Chennai – 600114, Tamilnadu,
India.**

SOFTWARE SKILLS:

**Proficient with the use of
Windows 10 and MS Office
(Word, Power point, Excel).
AUTOCAD, MS PROJECT.**

**Protection Relay Software of
Siemens Digsig-4 Digsig-5, Sell,
ABB PCM600 10.2 GE**

PASSPORT DETAILS:

Passport No : R2388418.

Issued at : MUSCAT.

Expiry on : 07.05.2027.

Professional Education Details

Professional Qualification : Bachelor of Technology in Electrical Engineering.

University : Rajasthan Vidyapeeth University. Udaipur.

Year of Completion : June 2012. (Distance Education).

Technical Qualification : Diploma in Electronics & Communication Eng.

Institute : Ramu-Seetha Polytechnic. Kariyapatti. Madurai.

University : Technical Board of Tamil Nadu. Chennai.

Year of Completion : June 1993. (Regular)

Education Qualification : +2 (vocational Course).

Institute : RS Gover. Higher Secondary School. Paramakudi.

University : Board of Higher Secondary Exam. Tamil Nadu.

Year of Completion : March 1990. (Regular)

Training & Certificate attended

- On Line Learning Six Sigma Green Belt Course by academy LinkedIn Certificate-engineering-portal.com.
- On Line Learning Project Management Foundation Course by academy LinkedIn Certificate-engineering-portal.com.
- On Line Training Design Course for Solar Energy Systems (Off-Grid, On-Grid, Protection and Simulation) by academy.electrical-engineering-portal.com
- On Line Training Siprotec-5 & Digsig-5, Siprotec-4 & Digsig-4, IEC System Configurator Courses Senior Technical Trainer by Dr.Saeed Roostass www.Elec-Engg.com.
- Omicron Electronics Middle East.Omicron Seminar on Modern Substation Testing & Partial Discharge Diagnostics on HV Assets. Muscat.
- Valence Electrical Training Services. US.
How to Test Protective Relay Online Seminar.
- Occupational Training Institute L.L.C Health & Safety in Sultanate of Oman.
Defensive Driving Blacktop & Graded Road (LV).
- Reddots Training & Services. Health & Safety in Sultanate of Oman.
- Ministerial Decision. 2. Risk Assessment, 3.HSE Induction.
4.Fire Warden. 5. Basic First Aid. 6. Managing Safely.
- AutoCAD Electrical & 2D Training in CADD Centre at Saidapet, Chennai.
- Undergone one Week Course of Plus in Hydraulic & Pneumatic Controls at Advance Technical Institute. Guindy. Chennai.

Carrier Profile

- **Organization : M/S ASV Enterprises. Chennai. India.**
Designation : Project In Charge (Civil and Electrical) Freelance.
Period : August 2020 to Present.
- **Organization : M/S National Contracting Company (T & D) LLC. Oman.**
Designation : Sr. Electrical Engineer (Testing & Commissioning).
Period : September 2012 to July 2020.
- **Organization : M/S Arabian BEMCO Contracting Co Ltd. Saudi Arabia.**
Designation : Electrical Testing & Commissioning Supervisor.
Period : November 2007 to June 2012.
- **Organization : M/S, Ashok Leyland, Chennai, India.**
Designation : Electrical & Mechatronic Maintenance Technician.
Period : January 1996 to October 2007.

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PROFESSIONAL EXPERIENCE IN GULF AND INDIA

PROFESSIONAL OVERVIEW:

A Multi Discipline professional with over 25.4 Years of valuable experience. Out of that I have 12.7 Years Total Gulf experience in the field of Power Plant 5 Years (380/13.8/4.16/0.415 kV), EPC Project 9 Years Substation 220/132/33/0.415 kV related voltage level scope of work Design Review co-ordination, Execution of Installation, Testing, Pre-Commissioning, Commissioning, Trouble Shooting Electrical Control System, related equipment's HV/LV Equipment's Gas Insulated Substation, Protection & Control Panel, Auto/Power Transformer, Cables, Automation Substation System/SCADA, Tele Protection System, CCTV, Earthing, Indoor/Outdoor Lighting, HVAC System, Fire & Safety System Operation & Maintenance of Power System. Objectives to achieve a challenging position in the Engineering field by my skills abilities and the attain professional growth.

OMAN

EPC PROJECT'S :

CLIENT : OMAN ELECTRICITY & TRANSMISSION COMPANY.
CLIENT CONSULTANT : ENERGO PROJEKTEK ENTEL LLC.
CONTRACTOR CONSULTANT : HAMEED ENGINEERING SERVICES LLC & MOTT MACDONALD & COMPANY LLC.

S.NO	PROJECT NAME	PROJECT EQUIPMENT'S DETAILS	LOCATON
1	127/2015 – Additional Scope of Work for the 132 Kv Vale Cable Feeder.	Siemens GIS (132 kV-Type: 8DN8), ABB SCS & Power Economic 132 kV Control & Relay Panel.	132 kV Sohar Free Zone in Port Area at Sias Grid Station.
2	114/2015 – Additional Scope of Work for the 400 kV OHL Project SFZ GS- Mahadha GS 400 kV OHL Circuits.	Siemens GIS (220 kV-8DN9), C & G Hungary GIS (220 kV), Siemens SCS & ABB Telecom (220 kV), ETA PCS 220 kV Control & Relay Panel.	220 kV Sohar Free Zone Area & 220 kV Mahadha Grid Station.
3	13/2015 - Construction of 132/33 kV Madinat Shinas GS and Associated 132kv D/C OHL.	Siemens (132 kV), Siemens SCS & ABB Telecom (132 kV), ETAPC 132&33 kV Control and Relay Panel, Voltamp 132 Mva 132/33 Kv & 33/0.415 Kv (EAT), Al Hassan Engineer LLC. LVAC & DC System HBL.	Madinath Shinas Grid Station & Shinas-1 GS
4	CONSTRUCTION OF BATINAH EXPRESSWAY – PACKAGE 2	132 kV OHL Diversion work at Muladha to Rustaq.	132 kV MULADHA GS & 132 kV RUSTAG GS.
5	29/2012 - 220/132 kV SUR 2 GRID SUBSTATION & UPGRADING OF IZKI GS TO 220/132 KV 2 X 500 MVA TRNSFORMER.	AREVA (220 kV), HYOSUNG (132 kV), ABB SCS & TELECOM (220 kV), BALFOUR BEATTY Control and Relay Panel (132 & 220 kV), VOLTAMP 33/0.415 kV (EAT).	220 kV IZKI GS & 220 kV SUR-3 GS
6	74/2010 – CONTRUCTION OF SUR 220 kV GRID STATION & ASSOCITED TRANSMISSION LINE BETWEEN SUR & JOHOLT	AREVA (220kV), HYOSUNG (132kV), ABB SCS & TELECOM (220 kV), BALFOUR BEATTY (132 & 220 kV), VOLTAMP 33/0.415 kV (EAT).	220 kV SUR GRID STATION & 132 kV SUR GRID STATION.

DUTIES & RESPONSIBILITIES:

220/132/33 kV SUBSTATION INSTALLATION, TESTING AND COMMISSIONING:

1. As per approved drawing to execute all Equipment Installation, Testing & commissioning activities.
2. As per site condition if any modification of 132 kV Single Line Diagram, Protection Metering Diagram, Block Logic Diagram, (Gas Insulated Substation, Control & Relay Panel, SCS, Telecom System, Vendor Drawings, Coordination with consultant Verifying, Submission of Modification Existing Busbar drawings related Gas Isolated Substation Bay Extension work for the Client Approval.

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3. Knowledge about NEMA/IEC Enclosure types and classifications Relay configuration and Industrial Communication protocols.
4. Awareness of Quality Management System, Environmental Management System standards ISO 14001:2015 and ISO 9001:2015
5. As pre project scope prepare for 220/132/33 kV Method Statement of Electrical Equipment Installation works & Testing (Scheme Test, CT & VT Testing, Primary injection, Secondary Injection, Main & Backup relay Test, Relay Trip Matric Test, Relay END to END Test, Busbar Stability & Sensitivity Test, Extension New Bays for Existing BUSBAR modification work, SCS & Telecom activity works.
6. Sub-stations and transmission lines. Co-Ordinate required electrical equipment for involves in managing all the connected Civil works as well.
7. Skilled in all types of schemes checking such as transformer protection, differential schemes, stability schemes, controls and interlocks and other control circuit schemes with various systems.
8. Skilled to test Coordination various Numerical protection relays of Siemens, Alstom make having protections such as Distance Protection, Differential Protection, Directional Earth Fault, over current, Earth fault, under voltage and Over voltage protections as per Update Oman Protection Policy with Client Final Relay Setting Calculation.
9. Experienced to do HV Test for Power Cables and Bus bars rated up to 33 kV.
10. Check the receipt of material at site as per technical standard data in Material Approved Schedule.
11. Cable schedule preparation for Control cables & Power Cable review as per site condition after Execute at site.
12. PTW, LOA, Padlock System, Hot Permit and Cold Permits for Safety formalities for all kind of Electrical Work.
13. Preparing Test and Ready for Inspection (RFI) schedule for consultant approval and compliance with necessary standards as per the client requirements.
14. Co-Ordinate during witness activity of Scheme, Relay Testing, CT, VT, BUSBAR stability & Sensitivity Test.
15. Coordination and Pre-Commissioning all types of Latest Oman protection Policy implement in the Protection System Relays, 220 kv GIS switch gear and switch gear equipment's such as Current Transformer, Voltage Transformer, Circuit Breaker, DS, High Speed Earth Switch, Earth Switch and Lighting arresters, Unit Transformer, LVAC & DC system.
16. 220 KV SCS system ABB PCM 600 software Bay control Unit BCU 670 IEC 61850 PRP Networking Design & I/O list Drawing review Co-Ordination to get approval client successful implement.
17. 132 kV Four Circuit (Madinath Shinas 1 & 2, SFZ 1 & 2) HV 2500 Sq.MM Cable Laying, Termination, Shutdown, HV & LV Testing & Commissioning co-ordination work is successfully completed at shinas-1 GS.
18. 132 kV New Bays Extension installation, shutdown, testing & commissioning co-ordination work is successfully completed at shinas-1 GS.
19. 132/33 125 MVA Power Transformer, LVREF Stability & Sensitivity Test, shutdown, Testing & 33 kV incomer (1TOA, 1TOB, 2TOA, 2TOB) Commissioning co-ordination work is successfully completed at Madinath shinas GS.
20. Substation commission after red mark drawing to be change as built drawing all Equipment to hand over to Client.
21. Sub-stations and transmission lines. Co-Ordinate required electrical equipment for involves in managing all the connected Civil works as well.
22. Diversion of the existing 132 kV OHL Rustaq to Muladha. Type of Towers are D2, D6, and D9.
23. The existing line L1 & L2 circuits to be connected to the new tower in the proposed section by shutdown work successful Completed.
24. SUR 2 220/132 kV Testing of perform CTs, VTs, Aus. Relays, Trip Circuit Supervision relay, DC Supervision relay & DC/AC loop Scheme Check, AREVA (220kV) & HYOSUNG (132kV) GIS Interlock Block Logic Scheme Check, Primary & Secondary Injection Test, Function Test, AUTO

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Transformer & Earthing Transformer Mechanical protection, Cooling system, Parallel Operation & OLTC, 110/48 V DC Battery Bank System with charger, Also Test LVAC Panel

25. GE SCADA System Successful Testing & Commissioning witness with OETC in SUR2 Grid Substation.

ALGERIA

EPC PROJECT'S :

CLIENT : ALGERIA ELECTRICITY & TRANSMISSION COMPANY.

S.NO	PROJECT NAME	PROJECT EQUIPMENT'S DETAILS	LOCATON
7	C.I.E.E.G ALGERIA AOI-09/2007 12185 60/30 kV.	ABB 60 kV (OUTDOOR) SUBSTATION Control Panel, SCS & Telecom.	AIN MERANE GRID STATION

60 KV OUTDOOR SUBSTATION KEY RESPONSIBILITIES:

Project Outdoor Substation 60/30 kV at Ain Merane Co-Ordination with Testing & Pre-Commissioning of Relays, Power Transformer, SCADA system ABB PCM600 SAS.

SAUDI ARABIA

EPC PROJECT'S :

CLIENT : SAUDI ELECTRICITY COMPANY.

CLIENT CONSULTANT : SAUD CONSULTANT.

S.NO	PROJECT NAME	PROJECT EQUIPMENT'S DETAILS	LOCATON
8	Power Plant No. 9 Extension - Blocks C&D (PP9 C & D). 1200 MW (60 Hz Unit).	13.8 kV Simple Cycle GE TURBINE, ABB, SCHNEIDER ELECTRIC, AREVA & GEDAC.	Power Plant – 9. Riyadh. Saudi Arabia.
9	Power Plant No. 9 Extension - Blocks F (PP9 C & D). 666 MW (60 Hz Unit).	13.8 kV Simple Cycle GE TURBINE, ABB, SCHNEIDER ELECTRIC, AREVA & GEDAC.	Power Plant – 9. Riyadh. Saudi Arabia.
10	Power Plant No. 10 (PP10 A1, A2, B1, B2 & C1). 3000 MW (60 Hz Unit).	13.8 Kv Simple Cycle GE TURBINE, ABB, SCHNEIDER ELECTRIC, AREVA & GEDAC.	Power Plant – 10, Riyadh. Saudi Arabia.
11	King Saud Girl's University Build 68 Agriculture.	13.8 kV/ 4.16 kV/ 480V/ 380V Swtich Gear, Transformer by Schneider Electric,	Riyadh. Saudi Arabia.

DUTIES & RESPONSIBILITIES:

POWER PLANT TESTING AND COMMISSIONING:

1. Effectively handled Site Acceptance Testing of Equipment's as CTs, PTs & Below mention the Protection Relays in different voltage Level 380/132/11/0.480/0.380 kV indoor Substations.
2. Also Effectively handled the Testing components and calibration of measuring Analog & Digital instrument like Ammeter, Voltmeter and Frequency Meter, Power Meter & various Energy Meter and Transducers.
3. Site Acceptance Testing & Commissioning of Schneider electric 13.8/0.48 kV, 13.8/4.16 kV DRY TYPE Indoor Power Transformer 2500 KVA Type of test by Vector Group, Voltage Ratio, Magnetic Balance, Core Balance etc.,

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4. After Verified Equipment's & Protection Relays SAT Testing of Contact AC/DC Trip Circuit Supervision Scheme Test, Function Test, Primary Injection, Secondary Injection, Interlock Scheme and Busbar Trip Logic Schemes of various protections.
5. Supervising and Co Ordination for Commissioning of 13.8/4.16/0.480/380 kV SWGRS to verified the BUS Stability & Sensitivity, High Voltage Testing for Cables and Bus bar.
6. Worked with General Electric (GE) Engineers in Successful Testing & Commissioning of Power Plant in Switchgear side SCADA Panels and DCS MARK VI GE Panels (Cold & Hot Loop Check, Execution of Function Checks) of whole Power Plant.
7. PTW, LOA, Tag-In ,Tag-Out, Padlock System, Hot Permit and Cold Permits for Safety formalities for all kind of Electrical Work.
8. Preparing inspection schedule with consultant for system approval. Coordinating with client & consultant.
9. Preparing test packs Ready for Inspection (RFI) schedule for consultant approval & compliance with necessary standards as per the client requirements.
10. Preparation of final as-built drawings in accordance to actual field condition of construction then incorporate construction management mark-up and issue the Final as-built to the company.

S.NO	RELAY PROTECTION FUNCTION	ANSI & RELAY MANUFACTURE	RELAY SOFTWARE
1	Directional / NonDirectional O/C Relay	P122, P121, ALSTOM & AREVA	MICOM STUDIO
		ARGUS 1, 7SJ8022 & SIEMENS/REYROLL	DIGSI
		551 & SEL	AcSELeRator
		SPAJ110C, ELR96P & ABB	-
2	Transformer Differential Relay	P633, ALSTOM & AREVA	MICOM STUDIO
3	Bus impedance high differential	MFAC, ALSTOM & AREVA	MICOM STUDIO
		587Z & SEL	AcSELeRator
		7VH60 & SIEMENS/REYROLL	DIGSI
4	Over/Under Voltage	P921, ALSTOM & AREVA	MICOM STUDIO
		MIV11 & GE	GE Enervista
		ARGUS 8 & SIEMENS/REYROLL	DIGSI
		REV610 & ABB	-
5	Voltage Regulator	SPAU314C1 & ABB	-
6	Syncho Check Relay	KAVS, ALSTOM & AREVA	MICOM STUDIO
		ARGUS 7 & SIEMENS/REYROLL	DIGSI
		SPAU140C & ABB	
7	Motor management relays	MM369, MM339 & MM300 & GE	GE Enervista
8	Ground over current relays	MIF11 & GE	GE Enervista
9	Capacitor bank protection relays	C70 & GE	GE Enervista
		451-5 & SEL	AcSELeRator
10	Feeder Protection	851A	AcSELeRator

11. Testing and Commissioning Perform of Individual Equipment's such as CTs, PTs in 380 KV, 132kv and 11kv indoor Substations.
12. Testing of over current and Earth Fault relays AREVA T&D Make Micom P122, P121, GE Energy Make MIF II and SEL 551, High Impedance Bus Differential Relay SEL Make SEL 587Z. ABB Make Relay SPAJ110C, ELR96P.
13. Testing of Function Test, Primary Injection, Secondary Injection Control and Busbar Protection Schemes of various protections.
14. Commissioning Co-ordination of 13.8KV SWGR, 4.16KV SWGR, 480V & 380V SWGR. Like Stability

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& Sensitivity. High Voltage Testing for Cables and Bus bar.

15. Effectively handled the Testing components and calibration of measuring Analog & Digital instrument like Ammeter, Voltmeter and Frequency Meter, Power Meter & various Energy Meter and Transducers.
16. Worked with General Electric (GE) Engineers in Successful Testing & Commissioning of Power Plant in Switchgear side SCADA Panels and DCS MARK VI GE Panels (Cold & Hot Loop Check, Execution of Function Checks) of whole Power Plant.
17. Preparation of pre-commissioning check lists, test reports, as built drawings, cable schedules and detailed Commissioning schedules for the above-mentioned systems.
18. Testing of LT Motor, MCC and Heater panels (GE and Ex Heat).
19. Preparation of detailed work schedule, drawings, cable schedules to carry out the shutdown work for modifying or upgrading the existing electrical systems such as additional bays in existing substations, additional panels to existing switchgears.
20. Testing & Commissioning of Schneider electric 13.8 KV/ 0.48 KV, 13.80 KV / 4.16 KV DRY TYPE Indoor Power Transformer 2500 KVA Vector Group, Voltage Ratio, Magnetic Balance, Core Balance.
21. Testing of Schneider Electric Sepam Series 40 Digital Protection Relay of current & voltage Protection, Power Energy Meter Type PM700 & MV Switchgear Type MC set 13.8 kV & 4.16 kV Also LV Switchgear 480 V.

TESTING KITS USED:

- 1) CMC 356 OMICRON.
- 2) POWER QUALITY ANALYZER (FLUKE 435).
- 3) FREJA- 300.
- 4) SVERKER 760.
- 5) OMICRON CPC -100.
- 6) CT ANALYZER.
- 7) HIGH VOLTAGE -0 – 60 KV -120 KV (VLF HIPOT INSTRUMENT).
- 8) FRIDA CABLE HIPOT.
- 9) ODEN (PRIMARY INJECTION).
- 10) MOM-610 (MICO OHM RESISTANCE TEST SET).
- 11) DLRO-MEGGER (CONTACT RESISTANCE TEST KIT).
- 12) CIRCUIT BREAKER TIMING TEST KIT EGIL.
- 13) DIGITAL EARTH TESTER (MEGGER DET4TCR2).

INDIA

PROFESSIONAL OVERVIEW:

A Multi Discipline professional with over all 25.4 Years of valuable experience. Out of that I have 12.7 Years Total India experience in the field of 11/0.415 kV HV/LV Equipment's Electrical & Mechatronic Entrusted with effectively handling all activities related to Operation, Preventive, Breakdown & Running Maintenance etc. & knowledge on Maintenance. Objectives to achieve a challenging position in the Engineering filed by my skills abilities and the attain professional growth.

ASHOKE LAYLAND -KEY RESPONSIBILITIES:

Entrusted with effectively handling all activities related to Operation, Preventive, Breakdown & Running Maintenance etc. & knowledge on Maintenance:

1. Acquiring new electrical, mechanical, pneumatics and hydraulics knowledge, better positioning you for advancement.
2. Performs preventive maintenance on all base building and critical system equipment.
3. Knowledge of Quality Circle of ISO 9000, TPM, GEMBA.

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4. Maintain tools, order and track inventory for repairs. Maintain logs, document equipment repairs, adhere to daily work plan, track time, and communicate daily with the Operations Manager and Lead Engineer.
5. Complies with departmental policy for the safe storage, usage and disposal of hazardous materials. Maintains a clean and safe work space.
6. Repairs and maintains machinery and mechanical equipment such as pneumatic tools, motors, conveyor systems and production machines and equipment using testing instruments, hand and power tools and precision-measuring instruments.
7. Performs a wide variety of functions such as installation, maintenance, and repair of equipment for generating, distributing, and utilizing electrical energy.
8. Uses instruments to test circuits and replaces or installs new power, lights, electronic and control circuits
9. AC & DC Motor of various Capacities, DC Motor of various Capacities, Welding Machine, Frock left Vehicle Traction, VFD, DC Drive Motor, AC Drive Motor and ENCODER.
10. Planning and coordination in Electrical Department. Inventory Management of electrical accessories. Look after electrical department's routine maintenance and modification. Erection & commissioning of new machines.
11. Troubleshooting/fault diagnosis/failure analysis to determine the maintenance action plan. Supervise and manage maintenance activities to ensure timely completion.
12. Knowledge of Electrical Maintenance work in main plant like Reverse osmosis plant, Sewage Water treatment Plant etc.
13. Credited with Rich experience in MECTRONICS CELL Various Model Machine Breakdown, Trouble Shooting and carrying out Rectify and Maintenance of all type Machine PLC and CNC machine.

WIDMA - 840C Siemens, BFW - series Fanuc India., MAZAK - mazatrol Mitsubishi controls, MC Batliboi - series Fanuc India, LMLboring - Fanuc India, NAGEL honing - Nagel proprietary controls, KOPP cam milling - 840C Siemens, SCHAUDT cam grinding - 840 D Siemens, EMA cam hardening - 810 D Siemens, STC15 - sinumerik Siemens, LIEBHERR gear hobbing - 840D Siemens, NTC toyomo - 18TB fanuc Japan, PMT - O-M series fanuc India.

Also working with PLC good troubleshooting of S-7 300, S-7 200 & S-7 400, siemens PLC hardware and software side and LG PLC Korea, good troubleshooting of Allen broadly SLC-500 & Micrologix – 1200, 1500 1000, Troubleshooting of AC frequency drives Lanze (9300 servo Drives) Siemens (DCS 800 & Micro master 440) & Allen Bready (Power flex), Amtech (Servo drive and DC Drive and china drive).

Declaration: -

I hereby declare that the data furnished above are true and correct to the best of my knowledge and Understating.

S.K. SURENDRAN.

08-08-2021.