

BHEL NIT TERMS & CONDITIONS

FOR SUPPLY AND ETC OF ILLUMINATION SYSTEM ITEMS FOR UJVNL 2X60MW VYASI HEP PROJECT

1. For any technical clarification, please contact Mr. Gorav Vig (TBEM); Contact No. 0120-674-8457; e-mail: gorav@bhel.in
2. For any commercial clarification, please contact Ms. Shipra Gupta (TBMM); Contact No.0120- 6748509; e-mail: shipra@bhel.in
3. **Delivery requirement: IMMEDIATE.** However, vendor has to quote their best delivery plan in activity schedule. In case, BHEL's delivery requirement is not met by vendor(s), then a chance may be given to all such vendors to review their quoted delivery schedule in line with BHEL's delivery requirement. However, if vendor fails to meet the requisite delivery plan, then BHEL reserves the right not to consider the offer of such vendor(s).

Sl. NO.	ACTIVITY	ACTIVITY TIME IN WEEKS	REMARKS IF ANY
1	Inputs to vendor by BHEL. Last inputs date will consider	0	BHEL Activity – Date of PO placement
2	Submission of Documents necessary for getting manufacturing clearance like Drawings, Date sheet etc.	4	Vendor to ensure Delivery completion date mentioned by BHEL
3	Approval of documents/ Manufacturing Clearance from BHEL / Customer *	6	BHEL Time to issue Manufacturing Clearance
4	Manufacturing time	18	Vendor to ensure Delivery completion date mentioned by BHEL
5	Inspection call	2	Vendor to ensure Delivery completion date mentioned by BHEL
6	Customer Inspection & Dispatch Clearance	2	BHEL Time to issue MICC
7	Dispatch	2	Vendor to ensure Delivery completion date mentioned by BHEL
8	ETC at site	10	On availability of front from BHEL

4. SCOPE OF SUPPLY AND BOQ (BIDDER TO SUBMIT UN-PRICE BID FORMAT AND ENCLOSED)

SN	ITEM DESCRIPTIONS	UNIT	QTY
1	SUPPLY– ILLUMINATION SYSTEM - Annexure BOQ Item SN 1.01 and 1.41 – BIDDER TO SUBMIT PRICE BREAK UP OF ALL ITEMS AS PER UNPRICED BID SCHEDULE BEFORE ORDERING	LOT	1
2	ETC – ILLUMINATION SYSTEM – Annexure BOQ Item SN 2.01 to 2.36 - BIDDER TO SUBMIT PRICE BREAK UP OF ALL ITEMS AS PER UNPRICED BID SCHEDULE BEFORE ORDERING	LOT	1

5. **Technical Doc. No.** - As per Tech Spec No. – **TB-398-316-024 Rev 00** enclosed in the tender. No permissible Technical Deviation has been envisaged.

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6. **Inspection agency** – to be inspected by Customer /BHEL/other agencies authorized by BHEL. MQP approval by Customer/Consultant. The enclosed Quality Plan is indicative only, however inspection shall be carried out as per the approved Quality Plan by Customer. For the same, Supplier to submit Quality Plan to BHEL for Customer approval.
7. **Quantity Variation:** The quantity for individual items may vary up to any extent, however total quantity may vary +/- 30 % during contract execution stage. It is also to be noted that any items can be completely/partially deleted during detailed engineering stage.
8. **VENDOR APPROVAL:** Final acceptance of technical qualified vendor for placement of order is subject to approval of CUSTOMER (UJVNL). Bidder should be approved in UJVNL as on opening of techno-commercial bid opening. Price bid opening shall be done of Customer approved vendors only.

9. TERMS OF PAYMENT WITH ETC IN BIDDER SCOPE AS FOLLOWS:

For Supply where Erection, Testing & Commissioning (ETC) at Site is in scope of the supplier:

- a) 90% of payment with receipt of complete invoice along with documents in 3 sets (original + 2 copies) as follows:
 - LR / GR duly endorsed by BHEL Site Official.
 - Material Receipt Certificate issued by BHEL Site Official.GST Compliant Tax Invoice
 - Packing List (Case-wise)
 - Copy of Transit Insurance Certificate from underwriters.
 - Material Inspection Clearance Certificate (MICC) issued by BHEL Quality Management
 - Guarantee Certificate
 - Copy of Performance Bank Guarantee (PBG)
 - Certificate of acceptance of Type Test Reports issued by BHEL Engineering Management wherever specifically mentioned in the Purchase Order
- b) 10% of payment with receipt of complete invoice along with documents in 3 sets (original + 2 copies) as follows:
 - Certificate of successful completion of Erection, Testing & Commissioning at Site issued by BHEL Site Official / Construction Management.
 - Certificate of completion of final documentation as per Purchase Order / Technical Specification issued by BHEL Engineering Management.

For Erection, Testing & Commissioning (ETC) at Site

- a) 70% of the Contract value against monthly progressive bills on pro-rata basis for unloading, storage and completion of erection as certified by BHEL Site Official with receipt of GST Compliant Tax Invoice (Original +2 Copies)

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- b) 20% of the Contract value against monthly progressive bills on pro-rata basis for testing & successful commissioning as certified by BHEL Site Official with receipt of GST Compliant Tax invoice in 3 sets (original + 2 copies)
- c) 10% of the Contract value after Acceptance Test, Re-test (if any), PG Test (if any) and Handing Over as certified by BHEL Site Official with receipt of GST Compliant Tax invoice in 3 sets (original + 2 copies)

Note: a. It should be ensured that Tax Invoice complies with statutory Requirements under GST law to enable BHEL to avail Input Tax Credit.

b. Payment of GST component shall be made only if vendor has deposited the Tax and credit for the same is reflected in GSTN (GST Network)

c. Copy of GST Registration Certificate(s) shall be also be attached with Tax Invoice

10. IMPORTANT INSTRUCTION:

- Bidder to mention QUOTED and GST in % against every items in their UN-PRICED BID FORMAT.

NAME & SEAL OF TENDERER

Enclosed:

- UN-PRICED BID FORMAT.
- MQP AND COC
- Tech Spec No. TB-398-316-024 Rev 00 AND BOQ
- PQR

UNPRICED BID SCHEDULE

Project: 220kV GIS for Vyasi HEP
Item: SUPPLY AND ETC OF ILLUMINATION SYSTEM ITEMS
Customer: UJVN Limited (UJVNL)
Tech Spec No. : TB-398-316-024

SN	ITEM DESCRIPTION	Unit	QTY	Estimated Unit Rate (INR)	Estimated Total Rate (INR)	GST RATE ON EX WORKS PRICES (%)	GST AMOUNT ON TOTAL EX WORKS PRICES (INR)	UNIT FREIGHT & INSURANCE CHARGES (INR)	TOTAL FREIGHT & INSURANCE CHARGES (INR)	GST ON FREIGHT & INSURANCE CHARGES (%)	GST AMOUNT ON FREIGHT & INSURANCE CHARGES (INR)	TOTAL FOR(D) PRICES (INR)
1.00	SUPPLY - ILLUMINATION SYSTEM ITEMS (from 1.01 to 1.41)	LOT	1									
1.01	Supply: Lighting Panel - Type LP1	Nos.	2									
1.02	Supply: Lighting Panel - Type LP2	Nos.	2									
1.03	Supply: Lighting Panel- Type DCLP	Nos.	1									
1.04	Supply: Lighting Luminaire Indoor (complete with all accessories) for Staircase 36W	Nos.	5									
1.05	Supply: Lighting Luminaire Indoor (complete with all accessories) for GIS Hall 150W	Nos.	30									
1.06	Supply: Lighting Luminaire Indoor (complete with all accessories) for AHU Room 36W	Nos.	15									
1.07	Supply: Lighting Luminaire Outdoor (complete with all accessories) for Pothead Yard 250W	Nos.	12									
1.08	Supply: Lighting Luminaire Outdoor (complete with all accessories) for Pothead Yard 400W	Nos.	12									
1.09	Supply: Lighting Luminaire Emergency DC lighting fixtures 10W, bulkhead type	Nos.	10									
1.10	Supply: Occupancy Sensor / Motion Detector for staircase area	Nos.	1									
1.11	Supply: Exit Sign	Nos.	5									
1.12	Supply: Emergency Lighting Units with Ni-Cd Battery and 2X10W Fluorescent lamp	Nos.	1									
1.13	Supply: Switchboard 5A, 2 Switch, Type SWB1	Nos.	2									
1.14	Supply: Switchboard 5A, 3 Switch+ 5A, 1 Socket-,Type SWB2	Nos.	3									
1.15	Supply: Junction box, Type JB-M	Nos.	5									
1.16	Supply: Receptacle 5/15A, 1 Phase, 240V AC Decorative Receptacle, Type RA	Nos.	10									
1.17	Supply: Receptacle 20A, 1 Phase, 240V AC Industrial Receptacle, Type RB	Nos.	5									
1.18	Supply: Receptacle 63A, 3 Phase, 415V AC Industrial Welding Receptacle, Type RC	Nos.	3									
1.19	Supply: Receptacle 63A, 3 Phase, 415V AC Outdoor Welding Receptacle, Type RP	Nos.	1									
1.20	Supply: Free-standing Aluminium Ladder, height adjustable (from 3m to 5m height)	Nos.	1									
1.21	Supply: Galvanized rigid conduit of 20mm size with accessories	Mtr.	1000									
1.22	Supply: Galvanized rigid conduit of 25mm size with accessories	Mtr.	300									
1.23	Supply: 20mm Flexible conduits made with bright, cold rolled annealed and electro galvanized mild steel strips and coated with PVC	Mtr.	150									
1.24	Supply: 1C, 1.5 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	Mtr.	1000									
1.25	Supply: 1C, 2.5 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	Mtr.	3000									
1.26	Supply: 1C, 4 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	Mtr.	800									
1.27	Supply: 1C, 10 sqmm PVC insulated stranded Al. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	Mtr.	200									
1.28	Supply: Earthing Material - 25x6mm GI Flat	Mtr.	100									
1.29	Supply: Earthing Material - GI wire for Earthing of size 16 SWG	Mtr.	2000									
1.30	Spares: Multiple plug power sockets suitable for 32A/16 A	Nos.	1									
1.31	Spares: Multiple plug power sockets suitable for 15A/5 A	Nos.	1									
1.32	Spares: Multi plug suitable for 32A/16 A	Nos.	1									
1.33	Spares: Multi plug suitable for 15A/5 A	Nos.	1									
1.34	Spares: Lighting Luminaire Indoor (complete with all accessories) for Staircase 36W	Nos.	1									
1.35	Spares: Lighting Luminaire Indoor (complete with all accessories) for GIS Hall 150W	Nos.	3									
1.36	Spares: Lighting Luminaire Indoor (complete with all accessories) for AHU Room 36W	Nos.	2									
1.37	Spares: Lighting Luminaire Outdoor (complete with all accessories) for Pothead Yard 250W	Nos.	2									
1.38	Spares: Lighting Luminaire Outdoor (complete with all accessories) for Pothead Yard 400W	Nos.	2									
1.39	Spares: Lighting Luminaire Emergency DC lighting fixtures 10W, bulkhead type	Nos.	1									
1.40	All type of switches, contactors, terminal blocks, screws. (10%, but at least three sets whichever is max.)	Lot	1									
1.41	All type of conduits, cables, wires. (10%, but at least 100 meters)	Lot	1									
	SUBTOTAL SUPPLY (MAIN + SPARES)											
2.00	ETC: ILLUMINATION SYSTEM ITEMS (from 2.01 to 2.36)	LOT	1									
2.01	ETC: Lighting Panel - Type LP1	Nos.	2									
2.02	ETC: Lighting Panel - Type LP2	Nos.	2									
2.03	ETC: Lighting Panel- Type DCLP	Nos.	1									
2.04	ETC: Lighting Luminaire Indoor (complete with all accessories) for Staircase 36W	Nos.	5									
2.05	ETC: Lighting Luminaire Indoor (complete with all accessories) for GIS Hall 150W	Nos.	30									
2.06	ETC: Lighting Luminaire Indoor (complete with all accessories) for AHU Room 36W	Nos.	15									
2.07	ETC: Lighting Luminaire Outdoor (complete with all accessories) for Pothead Yard 250W	Nos.	12									
2.08	ETC: Lighting Luminaire Outdoor (complete with all accessories) for Pothead Yard 400W	Nos.	12									
2.09	ETC: Lighting Luminaire Emergency DC lighting fixtures 10W, bulkhead type	Nos.	10									

SN	ITEM DESCRIPTION	Unit	QTY	Estimated Unit Rate (INR)	Estimated Total Rate (INR)	GST RATE ON EX WORKS PRICES (%)	GST AMOUNT ON TOTAL EX WORKS PRICES (INR)	UNIT FREIGHT & INSURANCE CHARGES (INR)	TOTAL FREIGHT & INSURANCE CHARGES (INR)	GST ON FREIGHT & INSURANCE CHARGES (%)	GST AMOUNT ON FREIGHT & INSURANCE CHARGES (INR)	TOTAL FOR(D) PRICES (INR)
2.10	ETC: Occupancy Sensor / Motion Detector for staircase area	Nos.	1									
2.11	ETC: Exit Sign	Nos.	5									
2.12	ETC: Emergency Lighting Units with Ni-Cd Battery and 2X10W Fluorescent lamp	Nos.	1									
2.13	ETC: Switchboard 5A, 2 Switch, Type SWB1	Nos.	2									
2.14	ETC: Switchboard 5A, 3 Switch+ 5A, 1 Socket-,Type SWB2	Nos.	3									
2.15	ETC: Junction box, Type JB-M	Nos.	5									
2.16	ETC: Receptacle 5/15A, 1 Phase, 240V AC Decorative Receptacle, Type RA	Nos.	10									
2.17	ETC: Receptacle 20A, 1 Phase, 240V AC Industrial Receptacle, Type RB	Nos.	5									
2.18	ETC: Receptacle 63A, 3 Phase, 415V AC Industrial Welding Receptacle, Type RC	Nos.	3									
2.19	ETC: Receptacle 63A, 3 Phase, 415V AC Outdoor Welding Receptacle, Type RP	Nos.	1									
2.20	ETC: Free-standing Aluminium Ladder, height adjustable (from 3m to 5m height)	Nos.	1									
2.21	ETC: Galvanized rigid conduit of 20mm size with accessories	Mtr.	1000									
2.22	ETC: Galvanized rigid conduit of 25mm size with accessories	Mtr.	300									
2.23	ETC: 20mm Flexible conduits made with bright, cold rolled annealed and electro galvanized mild steel strips and coated with PVC	Mtr.	150									
2.24	ETC: 1C, 1.5 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	Mtr.	1000									
2.25	ETC: 1C, 2.5 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	Mtr.	3000									
2.26	ETC: 1C, 4 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	Mtr.	800									
2.27	ETC: 1C, 10 sqmm PVC insulated stranded Al. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	Mtr.	200									
2.28	ETC: Earthing Material - 25x6mm GI Flat	Mtr.	100									
2.29	ETC: Earthing Material - GI wire for Earthing of size 16 SWG	Mtr.	2000									
2.30	Laying, Testing and Commissioning: 2 Core 2.5 sq mm HR PVC Insulated, Cu Cable (Includes Supply and Erection of cable glands/ lugs)	Mtr.	500									
2.31	Laying, Testing and Commissioning: 4 Core 6 sq mm HR PVC Insulated, Cu Cable (Includes Supply and Erection of cable glands/ lugs)	Mtr.	100									
2.32	Laying, Testing and Commissioning: 4 Core 4 sq mm HR PVC Insulated, Cu Cable (Includes Supply and Erection of cable glands/ lugs)	Mtr.	120									
2.33	Laying, Testing and Commissioning: 4 Core 16 sq mm HR PVC Insulated, Al Cable (Includes Supply and Erection of cable glands/ lugs)	Mtr.	50									
2.34	Laying, Testing and Commissioning: 3.5 Core 35 sq mm HR PVC Insulated, Al Cable (Includes Supply and Erection of cable glands/ lugs)	Mtr.	10									
2.35	Laying, Testing and Commissioning: 3.5 Core 70 sq mm HR PVC Insulated, Al Cable (Includes Supply and Erection of cable glands/ lugs)	Mtr.	10									
2.36	Services: Lux Measurement at site	Lot	1									
	SUBTOTAL ETC											
	TOTAL SUPPLY (MAIN + SPARE) + ETC											

QUALITY ASSURANCE PLAN (MODEL)

PROJECT : Vyasi H.E.P
NAME OF EQUIPMENT : Illumination System

CLIENT: UJVNL Limited
VENDOR :
NIT/P.O. REFERENCE : -----

SR. NO.	ITEM /COMPONENTS & CHARACTERISTICS	NATURE OF CHECKS	QUANTUM OF CHECKS	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD FORMAT	INSP. AGENCY			REMARKS
							Perform	Witness	Verify	
A 1 a) b) c) d)	Raw Material Aluminium Casting Dimensional Surface finish Chemical composition Weight	Measurement Visual Chemical test Measurement	Sample -do- -do- -do-	Tech. Spec./Appd.drg./ IS:617/IEC -do- -do- Tech. Spec./Appd.drg./IEC	TC TC TC TC	TC	3/2	-	1	TC
							3/2	-	1	TC
							3/2	-	1	TC
							3/2	-	1	TC
2 a)	Super enamelled copper wire for Ballast Thickness of wire	Measurement	-do-	Tech. Spec./Appd.drg./ IS:4800/IEC	TC	TC	3/2	-	1	TC
							3/2	-	1	TC
3 a) b) c)	Polyester resin quartz mix Viscosity of resin Powder resin mix	Test -do- -do-	-do- -do-	-do- -do-	TC TC	TC	3/2	-	1	TC
							3/2	-	1	TC
B 1 a) b)	Components Ballast Make & Rating Visual examination for painting/markings etc.	Measurement -do- Visual Visual	Sample -do- 100% 100%	Tech. Spec./Appd.drg./IEC -do- -do- -do-	TC TC	TC	3/2	-	1	TC
							3/2	-	1	TC

Note: a. In 'Inspection Agency' column figure 1, 2 or 3 to be filled. 1- will indicate 'UJVNL'; 2- will indicate 'supplier' & 3- will indicate 'sub-supplier'.
b. In 'Remarks' column following abbreviations shall be used - RR-Review of Records, T.C. - Test Certificate Submission, CHP - Customer Hold Point & JIR - Joint Inspection Report
c. Test certificates shall be submitted at the time of final inspection.

Signature
UJVNL

Signature & Seal
(VENDORS Q.C. DEPT. OR REPRESENTATIVE)

QUALITY ASSURANCE PLAN (MODEL)

PROJECT : Vyasi H.E.P
NAME OF EQUIPMENT : Illumination System

CLIENT: UJVNL Limited
VENDOR:
NIT/P.O. REFERENCE : *****

SR. NO.	ITEM /COMPONENTS & CHARACTERISTICS	NATURE OF CHECKS	QUANTUM OF CHECKS	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD FORMAT	INSP. AGENCY		REMARKS
							Perform	Witness	
c)	Dimensional Check	Measurement	100%	Tech. Spec./Appd.drg./IEC		TC	3/2	-	TC
d)	Electrical parameters running current/watt loss/ short circuit current.	Test	100%	Tech. Spec./Appd. Drg./IS:1564 & 6616/IEC		TC	3/2	-	TC
e)	IR dry Test	Electrical	100%	-do-		TC	3/2	-	TC
f)	HV Test	Electrical	100%	-do-		TC	3/2	-	TC
2	Capacitor	Visual	100%	Tech. Spec./Appd.drg./IEC		TC	3/2	-	TC
a)	Make & Rating	Visual	Sample	Tech. Spec./Appd.drg./IEC		TC	3/2	-	TC
b)	Surface finish	Visual	-do-	Tech. Spec./Appd.Drg./IS:1569/IEC		TC	3/2	-	TC
c)	Discharge Resistance Test	Test	-do-	-do-		TC	3/2	-	TC
d)	Value of capacitance	Measurement	-do-	-do-		TC	3/2	-	TC
e)	Thermal Stability Test	-do-	-do-	-do-		TC	3/2	-	TC
3	PVC wire	Visual	100%	Tech. Spec./Appd.drg./IEC		TC	3/2	-	TC
a)	Make & Rating	Measurement	Sample	Tech. Spec./Appd.drg./IEC		TC	3/2	-	TC
b)	Dimensional conformity (Conductor/Insulation)	Electrical	-do-	Tech. Spec./IS:694/IEC		TC	3/2	-	TC
c)	HV test	Visual	-do-	As per Tech. Specification.		TC	3/2	-	TC
d)	Surface finish/colour	Electrical	-do-	-do-		TC	3/2	-	TC
e)	IR Test	Visual	-do-	-do-		TC	3/2	-	TC
4	Diffuser	Visual	100%	Tech. Spec./Appd.drg./IEC		TC	3/2	-	TC
a)	Make & Rating	Measurement	-do-	-do-		TC	3/2	-	TC
b)	Dimensional conformity	Visual	-do-	-do-		TC	3/2	-	TC
c)	Surface finish	Visual	-do-	-do-		TC	3/2	-	TC

Note: a. In 'Inspection Agency' column figure 1, 2 or 3 to be filled. 1- will indicate 'UJVNL', 2- will indicate 'supplier' & 3- will indicate 'sub-supplier'.
b. In 'Remarks' column following abbreviations shall be used - RR-Review of Records, T.C. - Test Certificate Submission, CHP - Customer Hold Point & JIR - Joint Inspection Report
c. Test certificates shall be submitted at the time of final inspection.

Signature
UJVNL

Signature & Seal
(VENDORS Q.C. DEPT. OR REPRESENTATIVE)

QUALITY ASSURANCE PLAN (MODEL)

PROJECT : Vyasi H.E.P
NAME OF EQUIPMENT : Illumination System

CLIENT: UJVN Limited
VENDOR :
NIT/P.O. REFERENCE : -----

SR. NO.	ITEM /COMPONENTS & CHARACTERISTICS	NATURE OF CHECKS	QUANTUM OF CHECKS	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD FORMAT	INSP. AGENCY			REMARKS
							Perform	Witness	Verify	
5	Porcelain Lamp Holder	Visual	100%	Tech.Spec./Appd.drg./IEC		TC	3/2	-	1	TC
a)	Make & Rating	Visual	100%	Tech.Spec./IS:10276 /1258 /IEC		TC	3/2	-	1	TC
b)	Surface finish	Electrical	100%	Tech.Spec./Appd.drg./IEC		TC	3/2	-	1	TC
c)	HV Test	-do-	100%	-do-		TC	3/2	-	1	TC
d)	IR dry Test	Mechanical	100%	-do-		TC	3/2	-	1	TC
e)	Mech. Strength Test									
6	Paint	Visual	100%	Tech.Spec./Appd.drg./IEC		TC	3/2	-	1	TC
a)	Paint shade	Measurement	100%	-do-		TC	3/2	-	1	TC
b)	Viscosity									
7	Starter	Visual	100%	Tech.Spec./Appd.drg./IEC		TC	3/2	-	1	TC
a)	Make & Rating	Measurement	100%	Tech.Spec./Appd.drg./IEC		TC	3/2	-	1	TC
b)	Dimensional conformity									
c)	HV test	Electrical	100%	-do-		TC	3/2	-	1	TC
d)	IR Test	-do-	100%	-do-		TC	3/2	-	1	TC
C	Luminaire (Assembly)									
	Final Inspection & Testing									
1	Type tests	Visual	Sample	Tech.Spec./Appd.Drg./IS:10322/IEC		TC	3/2	-	1	TC
a)	Visual examination	Test	-do-	-do-		TC	3/2	-	1	TC
b)	Endurance test	-do-	-do-	-do-		TC	3/2	-	1	TC
c)	Heat run test	Test	-do-	-do-		TC	3/2	-	1	TC
d)	Dust tight test	-do-	-do-	-do-		TC	3/2	-	1	TC
e)	Jet proof / Splash proof/ Rain proof Test									

Note: a. In 'Inspection Agency' column figure 1, 2, or 3 to be filled. 1- will indicate 'UJVNL', 2- will indicate 'supplier' & 3- will indicate 'sub-supplier'.
b. In 'Remarks' column following abbreviations shall be used - RR-Review of Records, T.C. - Test Certificate Submission, CHP - Customer Hold Point & JIR - Joint Inspection Report
c. Test certificates shall be submitted at the time of final inspection.

Signature
UJVNL

Signature & Seal
(VENDORS Q.C. DEPT. OR REPRESENTATIVE)

QUALITY ASSURANCE PLAN (MODEL)**PROJECT : Vyasi H.E.P****NAME OF****EQUIPMENT : Illumination System****CLIENT: UJVNL Limited****VENDOR:****NIT/P.O. REFERENCE :**

SR. NO.	ITEM /COMPONENTS & CHARACTERISTICS	NATURE OF CHECKS	QUANTUM OF CHECKS	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD FORMAT	INSP. AGENCY			REMARKS
							Perform	Witness	Verify	
f)	Insulation Resistance Test	Electrical	Sample	Tech.Spec./Appd.Drg./		TC	3/2	-	1	TC
g)	High voltage Test	-do-	-do-	IS:10322/IEC		TC	3/2	-	1	TC
h)	Photometric Test	-do-	-do-	-do-		TC	3/2	-	1	TC
2	Acceptance Tests									
a)	Visual Examination	Visual	-do-	-do-		TC	3/2	-	1	TC
b)	Jet proof/splash proof/ rain proof Test	Test	-do-	-do-		TC	3/2	-	1	TC
c)	Insulation Resistance Test	Electrical	-do-	-do-		TC	3/2	-	1	TC
d)	High Voltage Test	-do-	-do-	-do-		TC	3/2	-	1	TC
e)	Photometric Test	-do-	-do-	-do-		TC	3/2	-	1	TC
3	Routine Tests									
a)	Dimensional conformity	Measurement	-do-	Tech.Spec./ Appd.drg./IEC		TC	3/2	-	1	TC
b)	Assembly / layout	-do-	100%	-do-		TC	3/2	-	1	TC
c)	Provision of earthing	Test	100%	-do-		TC	3/2	-	1	TC
d)	IR dry Test	Electrical	100%	Tech.Spec./Appd.Drg./		TC	3/2	-	1	TC
e)	HV Test	-do-	-do-	IS:10322/IEC		TC	3/2	-	1	TC
f)	Visual examination	Visual	-do-	-do-		TC	3/2	-	1	TC

Note: a. In 'Inspection Agency' column figure 1, 2, or 3 to be filled. 1- will indicate 'supplier' & 3- will indicate 'sub-supplier'.

b. In 'Remarks' column following abbreviations shall be used - RR-Review of Records, T.C. - Test Certificate Submission, CHP - Customer Hold Point & JIR - Joint Inspection Report

c. Test certificates shall be submitted at the time of final inspection.

Signature
UJVNLSignature & Seal
(VENDORS Q.C. DEPT. OR REPRESENTATIVE)

QUALITY ASSURANCE PLAN (MODEL)

PROJECT : Vyasi H.E.P
NAME OF
EQUIPMENT : Illumination Panels & Distribution
Board and Junction Boxes

CLIENT: UJVNL Limited
VENDOR:
NIT/P.O. REFERENCE : -----

SR. NO.	ITEM /COMPONENTS & CHARACTERISTICS	NATURE OF CHECKS	QUANTUM OF CHECKS	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD FORMAT	INSP. AGENCY			REMARKS
							Perform	Witness	Verify	
A	Raw Material & Bought out Items.									
1	Steel Sheets									
a)	Dimension (Size of sheet, Uniformity of thickness, surface finish.)	Measurement	As per sampling plan	Tech. Spec./ Appd.drg./ IS:513/IEC	TC	TC	2/3	-	1	TC
b)	Hardness	Mechanical	-do-	-do-	TC	TC	2/3	-	1	TC
c)	Bend test	-do-	-do-	-do-	TC	TC	2/3	-	1	TC
2	Copper/ CopperAlloy flats for Bus-bars & Links.									
a)	Dimension	Measurement	-do-	Tech. Spec./ Appd.drg./ IS:613/IEC	TC	TC	2/3	-	1	TC
b)	Bend test	Mechanical	-do-	Tech. Spec./ Appd.drg./ IS:191/IEC	TC	TC	2/3	-	1	TC
c)	Hardness	-do-	-do-	Tech. Spec./ Appd.drg./ IS:191/IEC	TC	TC	2/3	-	1	TC
d)	Tensile Strength	-do-	-do-	Tech. Spec./ Appd.drg./ IS:1897/IEC	TC	TC	2/3	-	1	TC
e)	Chemical Composition.	Chemical	-do-	Tech. Spec./ Appd.drg./ IS:6160/IEC	TC	TC	2/3	-	1	TC
f)	Conductivity	Electrical	-do-	Tech. Spec./ Appd.drg./ IEC	TC	TC	2/3	-	1	TC

Note: a. In 'Inspection Agency' column figure 1, 2 or 3 to be filled. 1- will indicate 'UJVNL', 2- will indicate 'supplier' & 3- will indicate 'sub-supplier'.
b. In 'Remarks' column following abbreviations shall be used - RR-Review of Records, T.C. - Test Certificate Submission, CHP - Customer Hold Point & JIR - Joint Inspection Report
c. Test certificates shall be submitted at the time of final inspection.

Signature
UJVNL

Signature & Seal
(VENDORS Q.C. DEPT. OR REPRESENTATIVE)

QUALITY ASSURANCE PLAN (MODEL)

PROJECT : Vyasi H.E.P
NAME OF
EQUIPMENT : Illumination Panels & Distribution
Board and Junction Boxes

CLIENT: UJVNL Limited
VENDOR:
NIT/P.O. REFERENCE : *****

SR. NO.	ITEM /COMPONENTS & CHARACTERISTICS	NATURE OF CHECKS	QUANTUM OF CHECKS	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD FORMAT	INSP. AGENCY			REMARKS
							Perform	Witness	Verify	
3	Aluminium & Aluminium alloys Flats for Bus bars.									
	a) (If applicable) Dimension	Measurement	As per Sampling Plan	Tech. Spec./ Appd drg. /IS:5082/IEC	TC	TC	2/3	-	1	TC
	b) Bend Test	Mechanical	-do-	-do-	TC	TC	2/3	-	1	TC
	c) Tensile Strength	-do-	-do-	-do-	TC	TC	2/3	-	1	TC
	d) Chemical Composition.	Chemical	-do-	-do-	TC	TC	2/3	-	1	TC
4	Conductivity	Electrical	-do-	-do-	TC	TC	2/3	-	1	TC
	Tests for Switches & Control Switches, Power & Auxiliary Contactor, Current Transformer, Electrical Meters(Ammeter, Voltmeter, Freq. meter etc.), Miniature Circuit Breaker, Air Circuit Breaker, Power & Auxiliary Contactor, Timers (Electronic, Electromechanical & Annunciators),PVC Wire.									
	a) Make & Rating	Visual	100%	Tech.Spec./Appd.drg./IEC	TC	TC	3/2	-	1	TC
	b) Routine Test	Test	-do-	-do-	TC	TC	2/3	-	1	TC

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b. In 'Remarks' column following abbreviations shall be used - RR-Review of Records, T.C. - Test Certificate Submission, CHP - Customer Hold Point & JIR - Joint Inspection Report
c. Test certificates shall be submitted at the time of final inspection.

1507

Signature
UJVNL

Signature & Seal
(VENDORS Q.C. DEPT. OR REPRESENTATIVE)

QUALITY ASSURANCE PLAN (MODEL)

PROJECT : Vyasi H.E.P
NAME OF
EQUIPMENT : Illumination Panels & Distribution
Board and Junction Boxes

CLIENT: UJVNL Limited
VENDOR :
NIT/P.O. REFERENCE : -----

SR. NO.	ITEM /COMPONENTS & CHARACTERISTICS	NATURE OF CHECKS	QUANTUM OF CHECKS	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD FORMAT	INSP. AGENCY			REMARKS
							Perform	Witness	Verify	
B. 1 a) b) c) d) e)	Final Inspection Mechanical checks BOM verification	Visual	100%			JIR	3/2	1	-	CHP
	Layout of components	Visual	100%		Techn. Spec/ Appd.drg./ IS-8823/IEC	JIR	3/2	1	-	CHP
	Dimensional checks	Measurement	100%		-do-	JIR	3/2	1	-	CHP
	Sheet thickness, Paint thickness, Paint shade & overall dimension)									
	Name plate details	Visual	100%		-do-	JIR	3/2	1	-	CHP
2 a) b) c) d)	Electrical Electrical operation of equipments.	Mechanical	100%		-do-	JIR	3/2	1	-	CHP
	Scheme checking	Electrical	100%		-do-	JIR	3/2	1	-	CHP
	IR Test	Electrical	100%		-do-	JIR	3/2	1	-	CHP
	HV Test	Electrical	100%		-do-	JIR	3/2	1	-	CHP

Note: a. In 'Inspection Agency' column figure 1,2,3 to be filled. 1- will indicate 'UJVNL'; 2- will indicate 'supplier' & 3- will indicate 'sub-supplier'.
b. In 'Remarks' column following abbreviations shall be used - RR-Review of Records, T.C. - Test Certificate Submission, CHP - Customer Hold Point & JIR - Joint Inspection Report
c. Test certificates shall be submitted at the time of final inspection.

Signature
UJVNL

Signature & Seal
(VENDORS Q.C. DEPT. OR REPRESENTATIVE)

SCHEDULE OF COMMERCIAL DEVIATION

This Format is to be submitted in original duly signed by bidder.
The following are the deviations/variations/exceptions from the Terms and Conditions :-

S N	CLAUSE NO. OF TERMS AND CONDITIONS	STATEMENT OF DEVIATION

In case, this schedule is not submitted, it will be presumed that the equipment /material to be supplied under this contract is deemed to be in compliance with the Terms and Conditions.

If there is NIL deviation,even then the format to be filled as NIL DEVIATION.

Note : Continuation Sheets of like size and format may be used as per the Bidder's Requirement and shall be annexed to this schedule.

Place :
Date :

Signature of the authorised representative of

Bidder's name :.....
Designation:.....
Company Seal:.....

CERTIFICATE OF CONFORMANCE

Ref:-

DTD:

Name & Address of Supplier:

Project : 2X60 MW UJVNL Vyasi HEP

Package: 220kV GIS & Switchyard

PO No.:

Sl no	Description of Item / Equipment	Make	Approved Drg No.	Qty offered	Bal Qty	PO Ref.	Identification mark
1							
2							

It is hereby confirmed that the above component / item / equipment was/were manufactured & tested in accordance with approved drawings / datasheets / specification as referred above & was found acceptable. For Spare item we confirm that items will be 100% interchangeable with respect to the original item.

Supplier Signature along with Stamp

ANNEXURE_BOQ

Project: 220kV GIS for Vyasi HEP

Item: SUPPLY AND ETC OF ILLUMINATION SYSTEM ITEMS

Customer: UJVNL Limited (UJVNL)

Tech Spec No. : TB-398-316-024

SN	ITEM DESCRIPTION	Unit	QTY
1.00	SUPPLY - ILLUMINATION SYSTEM ITEMS (from 1.01 to 1.41)	LOT	1
1.01	Supply: Lighting Panel - Type LP1	Nos.	2
1.02	Supply: Lighting Panel - Type LP2	Nos.	2
1.03	Supply: Lighting Panel- Type DCLP	Nos.	1
1.04	Supply: Lighting Luminaire Indoor (complete with all accessories) for Staircase 36W	Nos.	5
1.05	Supply: Lighting Luminaire Indoor (complete with all accessories) for GIS Hall 150W	Nos.	30
1.06	Supply: Lighting Luminaire Indoor (complete with all accessories) for AHU Room 36W	Nos.	15
1.07	Supply: Lighting Luminaire Outdoor (complete with all accessories) for Pothead Yard 250W	Nos.	12
1.08	Supply: Lighting Luminaire Outdoor (complete with all accessories) for Pothead Yard 400W	Nos.	12
1.09	Supply: Lighting Luminaire Emergency DC lighting fixtures 10W, bulkhead type	Nos.	10
1.10	Supply: Occupancy Sensor / Motion Detector for staircase area	Nos.	1
1.11	Supply: Exit Sign	Nos.	5
1.12	Supply: Emergency Lighting Units with Ni-Cd Battery and 2X10W Fluorescent lamp	Nos.	1
1.13	Supply: Switchboard 5A, 2 Switch, Type SWB1	Nos.	2
1.14	Supply: Switchboard 5A, 3 Switch+ 5A, 1 Socket-,Type SWB2	Nos.	3
1.15	Supply: Junction box, Type JB-M	Nos.	5
1.16	Supply: Receptacle 5/15A, 1 Phase, 240V AC Decorative Receptacle, Type RA	Nos.	10
1.17	Supply: Receptacle 20A, 1 Phase, 240V AC Industrial Receptacle, Type RB	Nos.	5
1.18	Supply: Receptacle 63A, 3 Phase, 415V AC Industrial Welding Receptacle, Type RC	Nos.	3
1.19	Supply: Receptacle 63A, 3 Phase, 415V AC Outdoor Welding Receptacle, Type RP	Nos.	1
1.20	Supply: Free-standing Aluminium Ladder, height adjustable (from 3m to 5m height)	Nos.	1
1.21	Supply: Galvanized rigid conduit of 20mm size with accessories	Mtr.	1000
1.22	Supply: Galvanized rigid conduit of 25mm size with accessories	Mtr.	300
1.23	Supply: 20mm Flexible conduits made with bright, cold rolled annealed and electro galvanized mild steel strips and coated with PVC	Mtr.	150
1.24	Supply: 1C, 1.5 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	Mtr.	1000
1.25	Supply: 1C, 2.5 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	Mtr.	3000
1.26	Supply: 1C, 4 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	Mtr.	800
1.27	Supply: 1C, 10 sqmm PVC insulated stranded Al. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	Mtr.	200
1.28	Supply: Earthing Material - 25x6mm GI Flat	Mtr.	100
1.29	Supply: Earthing Material - GI wire for Earthing of size 16 SWG	Mtr.	2000
1.30	Spares: Multiple plug power sockets suitable for 32A/16 A	Nos.	1
1.31	Spares: Multiple plug power sockets suitable for 15A/5 A	Nos.	1
1.32	Spares: Multi plug suitable for 32A/16 A	Nos.	1
1.33	Spares: Multi plug suitable for 15A/5 A	Nos.	1
1.34	Spares: Lighting Luminaire Indoor (complete with all accessories) for Staircase 36W	Nos.	1
1.35	Spares: Lighting Luminaire Indoor (complete with all accessories) for GIS Hall 150W	Nos.	3
1.36	Spares: Lighting Luminaire Indoor (complete with all accessories) for AHU Room 36W	Nos.	2
1.37	Spares: Lighting Luminaire Outdoor (complete with all accessories) for Pothead Yard 250W	Nos.	2
1.38	Spares: Lighting Luminaire Outdoor (complete with all accessories) for Pothead Yard 400W	Nos.	2
1.39	Spares: Lighting Luminaire Emergency DC lighting fixtures 10W, bulkhead type	Nos.	1
1.40	All type of switches, contactors, terminal blocks, screws. (10%, but at least three sets whichever is max.)	Lot	1
1.41	All type of conduits, cables, wires. (10%, but at least 100 meters)	Lot	1
2.00	ETC- ILLUMINATION SYSTEM ITEMS (from 2.01 to 2.36)	LOT	1
2.01	ETC: Lighting Panel - Type LP1	Nos.	2
2.02	ETC: Lighting Panel - Type LP2	Nos.	2
2.03	ETC: Lighting Panel- Type DCLP	Nos.	1
2.04	ETC: Lighting Luminaire Indoor (complete with all accessories) for Staircase 36W	Nos.	5
2.05	ETC: Lighting Luminaire Indoor (complete with all accessories) for GIS Hall 150W	Nos.	30
2.06	ETC: Lighting Luminaire Indoor (complete with all accessories) for AHU Room 36W	Nos.	15
2.07	ETC: Lighting Luminaire Outdoor (complete with all accessories) for Pothead Yard 250W	Nos.	12
2.08	ETC: Lighting Luminaire Outdoor (complete with all accessories) for Pothead Yard 400W	Nos.	12
2.09	ETC: Lighting Luminaire Emergency DC lighting fixtures 10W, bulkhead type	Nos.	10
2.10	ETC: Occupancy Sensor / Motion Detector for staircase area	Nos.	1

PROJECT: VYASI (220kV GIS SWITCHYARD)

SN	ITEM DESCRIPTION	Unit	QTY
2.11	ETC: Exit Sign	Nos.	5
2.12	ETC: Emergency Lighting Units with Ni-Cd Battery and 2X10W Fluorescent lamp	Nos.	1
2.13	ETC: Switchboard 5A, 2 Switch, Type SWB1	Nos.	2
2.14	ETC: Switchboard 5A, 3 Switch+ 5A, 1 Socket-,Type SWB2	Nos.	3
2.15	ETC: Junction box, Type JB-M	Nos.	5
2.16	ETC: Receptacle 5/15A, 1 Phase, 240V AC Decorative Receptacle, Type RA	Nos.	10
2.17	ETC: Receptacle 20A, 1 Phase, 240V AC Industrial Receptacle, Type RB	Nos.	5
2.18	ETC: Receptacle 63A, 3 Phase, 415V AC Industrial Welding Receptacle, Type RC	Nos.	3
2.19	ETC: Receptacle 63A, 3 Phase, 415V AC Outdoor Welding Receptacle, Type RP	Nos.	1
2.20	ETC: Free-standing Aluminium Ladder, height adjustable (from 3m to 5m height)	Nos.	1
2.21	ETC: Galvanized rigid conduit of 20mm size with accessories	Mtr.	1000
2.22	ETC: Galvanized rigid conduit of 25mm size with accessories	Mtr.	300
2.23	ETC: 20mm Flexible conduits made with bright, cold rolled annealed and electro galvanized mild steel strips and coated with PVC	Mtr.	150
2.24	ETC: 1C, 1.5 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	Mtr.	1000
2.25	ETC: 1C, 2.5 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	Mtr.	3000
2.26	ETC: 1C, 4 sqmm PVC insulated stranded Cu. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	Mtr.	800
2.27	ETC: 1C, 10 sqmm PVC insulated stranded Al. Wire Red/Yellow/Blue/Black/Grey (ISI marked with valid CML number). Colour coded.	Mtr.	200
2.28	ETC: Earthing Material - 25x6mm GI Flat	Mtr.	100
2.29	ETC: Earthing Material - GI wire for Earthing of size 16 SWG	Mtr.	2000
2.30	Laying, Testing and Commissioning: 2 Core 2.5 sq mm HR PVC Insulated, Cu Cable (Includes Supply and Erection of cable glands/ lugs)	Mtr.	500
2.31	Laying, Testing and Commissioning: 4 Core 6 sq mm HR PVC Insulated, Cu Cable (Includes Supply and Erection of cable glands/ lugs)	Mtr.	100
2.32	Laying, Testing and Commissioning: 4 Core 4 sq mm HR PVC Insulated, Cu Cable (Includes Supply and Erection of cable glands/ lugs)	Mtr.	120
2.33	Laying, Testing and Commissioning: 4 Core 16 sq mm HR PVC Insulated, Al Cable (Includes Supply and Erection of cable glands/ lugs)	Mtr.	50
2.34	Laying, Testing and Commissioning: 3.5 Core 35 sq mm HR PVC Insulated, Al Cable (Includes Supply and Erection of cable glands/ lugs)	Mtr.	10
2.35	Laying, Testing and Commissioning: 3.5 Core 70 sq mm HR PVC Insulated, Al Cable (Includes Supply and Erection of cable glands/ lugs)	Mtr.	10
2.36	Services: Lux Measurement at site	Lot	1

Note

1	Items not covered above but required for the succesful execution of the scope of works is deemed to be included in the bidder's scope
2	Junction Box suitable for loop-in loop out of 10sqmm for outdoor switcyard fixtures.
3	The above quantities (BOQ) are as per preliminary design only. The detailed design shall be submitted by vendor and subject to approval by Customer. The final BOQ quantities shall be finalized after detailed engineering. Hence, BHEL reserves the right for overall contract value variation upto upto $\pm 30\%$ due to any reason at same unit rate and terms during execution of contract, however, the quantity of individual items may however vary upto any extent
4	Any extra items of supply, if required for completion of work in all respect, shall be in bidder's scope and accordingly a tentative list of items shall be submitted with the offer, if required.
5	Erection items for indoor illumination work shall include the following, but not limited to i.e. 3 way, G.I.,circular J.B.(20mm and 25mm),4 way,G.I.,circular J.B.(20mm and 25mm),90deg,G.I.,Inspection Bend (20mm and 25mm),90deg,G.I.,Normal Bend(20mm and 25mm),Heavy duty, Saddle with base(20mm and 25mm),Heavy duty, Saddle without base (20mm and 25mm),M4X25mm, steel screw with nut and washer,G.I. check nut/lock nut(20mm and 25mm),PVC Rawl plug,6mm,Wooden screw,35mm,Earth clip/clamp (20mm and 25mm),Cleat fabrication out of 25x6mm M.S. flat (for hanging conduit in false ceiling areas), Anchor fastner (M10x75mm for cleats,M12x75mm for lighting panels),Rubber bush(20mm and 25mm),20mm PVC ,flexible conduit,25mm,PVC conduit,Coupling,Swing out bracket,20mm,Heavy duty,ball socket,Machine screw(for fixing surface mounting fixtures on circular J.B.), PVC closure(20mm and 25mm),Reducer (20mm and 25mm). GI conduits , epoxy coated conduits for corrosive areas , 1.5, 2.5 , 4, 6 & 10 sq. mm wires, GI wire/ FRLSH cu wire for earthing, lugs for wires etc as applicable to complete. The supply and service shall be deemed to be included in the bidders scope
6	Erection items for outdoor illumination work shall include the following, but not limited to i.e. 20x1.5mm Aluminium flat, M12x40mm, G.I. Bolt with nut and washer for fixing outdoor lighting panels,M6x30mm, G.I. Bolt with nut and washer for fixing control gear boxes,M8x30mm, G.I. Bolt with nut and washer for fixing outdoor J.B.s,SLP, M10x35mm, G.I. Bolt with nut and washer for fixing outdoor lighting fixtures,G.I., 2.5 sqmm wire from JB to fixture, Earth wire from J.B. to lighting fixtures,Mounting brackets for outdoor lighting fixtures, GI wire for earthing, lugs for wires etc as applicable to complete. The supply and service shall be deemed to be included in the bidders scope

**Technical Qualifying Requirements & Experience
for
Illumination System**

The bidder should have experience of design, supply and erection, testing & commissioning (ETC) of Illumination System for at least one (1) project of state electricity boards/ central utilities/ state or central transmission utilities/ industrial installations including petrochemical facilities.

Requisite documents

The following Documents are to be submitted for compliance of above requirements,

- a. Proof of design
Approved design documents and drawings of indoor & outdoor areas, duly approved by customer/ consultant.
- b. Proof of Supply
Purchase Order copy defining the scope & value with material receipt certificate/ dispatch note documents
- c. Proof of ETC
Handing over report/ completion certificate/ other document indicating completion of ETC work