

TENDER CALL NOTICE NO.
65/PM/ELECT/OPHWC/2025-26

BID DOCUMENT
FOR

**EXECUTION OF EXTERNAL ELECTRIFICATION WORK, INSTALLATION OF
SOLAR P.V SYSTEM AND LED SCREEN AT DIFFERENT PROJECTS IN THE
STATE OF ODISHA**



PROJECT MANAGER
[ELECTRICAL DIVISION]

**The Odisha State Police Housing & Welfare Corporation Ltd., Janpath,
Bhoi Nagar, Bhubaneswar - 22.**



THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD.

JANAPATH, BHOINAGAR, BHUBANESWAR – 22.

[Electrical Division]

Ph: 0674-2541545, 2542921, Fax: 0674-2541543

E-mail: pmelectricalophwc2025@gmail.com, Website: www.ophwc.com

TENDER CALL NOTICE

BID REFERENCE NO: -65/PM /ELECT/OPHWC/2025-26

INVITATION FOR BIDS (IFB)

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1	The P.M, Electrical Division, The Odisha State Police Housing & Welfare Corporation Ltd., Bhubaneswar on behalf of the User Agency as mentioned in the Column - 8 of the below table invites Percentage rate bids in single cover system for following works as detailed below: -		
2	Nature of work	:	External Electrification work, Installation of Solar P.V System and LED Screen.
3	No. of Work	:	09 Nos.
4	Value of Tender	:	Rs.2,62,210.00 to Rs.44,62,689.00
5	EMD & Bid Cost	:	(As per column 4 & 5 of the IFB)
6	Eligibility Criteria	:	Valid M.V/H.T electrical license holder contractor enlisted under OPHWC. (As mentioned in the Column No -7 of the IFB as per the working range)
7	Availability of Bid Documents in the Website www.ophwc.com	:	Dt.26.11.2025 to Dt.01.12.2025 up to 5:00 P.M
8	Last date /time of Receipt of Bids	:	Dt.02.12.2025 up to 12:30 P.M
9	Date of Opening Bid	:	Dt.02.12.2025 at 1:00 P.M
10	Further details can be seen from the website: www.ophwc.com Any addendum/corrigendum/cancellation of tender can also be seen in the said website.		
Sd/- Project Manager.			

BID DOCUMENTS

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INVITATION FOR BIDS (IFB)

1. The P.M, Electrical Division, The Odisha State Police Housing & Welfare Corporation Ltd., Bhubaneswar on behalf of the User Agency as mentioned in the Column - 8 of the below table invites Percentage Rate bids in single cover system for work as detailed in the table from the valid M.V/H.T electrical license holder contractor enlisted under OPHWC. Every bidder is expected to inspect the site of proposed work before quoting their rate.

2. The bidders may submit bids for the following works separately for each project otherwise the bid shall be rejected.

Sl. No.	Name of the work	Approximate Estimated Cost (Rs.)	EMD/Bid Security (Rs.)	Cost of Bid Document Inclusive of 18% towards GST (Rs.)	Period of completion	Working Range	Name of the User Agency
1	2	3	4	5	6	7	8
Single Cover (NOTICE NO: - 65/PM/ELECT/OPHWC/2025-26)							
1	EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO BUS STAND (C-TYPE) (PHASE-II UNDER ABS SCHEME) AT KABISURYANAGAR UNDER KABISURYANAGAR BLOCK IN THE DISTRICT OF GANJAM.	12,13,935.00	12139.00	7080.00	90 days	Up to 20 lakhs & Above [H.T]	The Commerce & Transport Department, Government of Odisha.

2	EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO TRUCK TERMINAL AT PANDIKIPALLI IN THE DISTRICT OF BARGARH.	26,72,268.00	26723.00	7080.00	90 days	Up to 50 lakhs & Above [H.T]	The State Transport Authority, Odisha, Cuttack.
3	SUPPLY AND INSTALLATION OF LED SCREEN IN 1000 SEATED CONVENTION HALL AT M.S.C.B UNIVERSITY, BARIPADA.	37,58,298.00	37583.00	7080.00	60 days	Up to 50 lakhs & Above [M.V/ H.T]	Maharaja Sriram Chandra Bhanja Deo University, Baripada.
4	SHIFTING AND RECONSTRUCTION OF 11 K.V & L.T LINE FROM THE SITE OF CONSTRUCTION OF 1-E+8-F TYPE STAFF QUARTERS AT NARAYANAPATNA FIRE STATION IN THE DISTRICT OF KORAPUT.	3,99,112.00	3991.00	2360.00	90 days	Up to 20 lakhs & Above [H.T]	The Directorate of Fire & Emergency Services, Odisha, Cuttack.
5	EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO KORUA POLICE STATION IN THE DISTRICT OF KENDRAPADA.	2,62,210.00	2622.00	2360.00	90 days	Up to 20 lakhs & Above [H.T]	The Odisha Police State Headquarters, Cuttack.
6	EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 4-E+4-F TYPE STAFF QUARTERS AT ORIENT POLICE STATION IN THE DISTRICT OF JHARSUGUDA.	12,24,823.00	12248.00	7080.00	90 days	Up to 20 lakhs & Above [H.T]	The Odisha Police State Headquarters, Cuttack.
7	EXECUTION OF EXTERNAL ELECTRIFICATION WORK FOR POWER SUPPLY TO 6-F TYPE STAFF QUARTERS AT RAIRANGPUR RURAL POLICE STATION & 4-E TYPE STAFF QUARTERS AT RAIRANGPUR POLICE STATION IN THE DISTRICT OF MAYURBHANJ.	11,67,297.00	11673.00	7080.00	90 days	Up to 20 lakhs & Above [H.T]	The Odisha Police State Headquarters, Cuttack.

8	EXECUTION OF AREA ILLUMINATION WORK, EXTERNAL ELECTRIFICATION WORK, INSTALLATION OF LIGHTNING PROTECTION SYSTEM & SOLAR P.V SYSTEM AT COB FOR C.A.P.F AT DHARAKOTE IN THE DISTRICT OF KANDHAMAL.	44,62,689.00	44627.00	7080.00	90 days	Up to 50 lakhs & Above [H.T]	The Odisha Police State Headquarters, Cuttack.
9	EXECUTION OF AREA ILLUMINATION WORK, EXTERNAL ELECTRIFICATION WORK, INSTALLATION OF LIGHTNING PROTECTION SYSTEM & SOLAR P.V SYSTEM AT COB FOR C.A.P.F AT TAJUNGIA IN THE DISTRICT OF KANDHAMAL.	38,74,567.00	38746.00	7080.00	90 days	Up to 50 lakhs & Above [H.T]	The Odisha Police State Headquarters, Cuttack.

N.B.- Since provision of VAT, Entry Tax and other taxes have been replaced by GST w.e.f 01/07/2017, the quoted rate should be inclusive of all but excluding GST.

Requirements under Goods & Service Tax Act.

The supplier of goods or service or both shall submit the tax invoice for release of payment and the tax invoice should include all the particulars and contents as required under section-31 of the CGST/SGST/IGST/UTST Act, 2017 read with rules made there under, including the followings:

- a. Correct Name, Address & GST No. of both the Supplier and recipient.
 - b. "Tax Invoice" should be clearly mentioned on the invoice copy.
 - c. GST should be clearly mentioned separately.
 - d. Correct classification of supply of goods, services or both should be made.
 - e. Nature of supply whether it is interstate or intra state should be mentioned.
 - f. Place of supply should be mentioned.
 - g. Prevailing rate of tax should be clearly mentioned.
 - h. Levy of Tax whether as forward charge or reverse charge should be mentioned.
 - i. The supplier shall submit an original copy of Tax Invoice to the Corporation (OSPH&WC).
- A. The supplier shall declare that the tax so collected from the Corporation will be duly discharged either by using input tax credit or paid as per provisions under GST Act.
 - B. The supplier shall declare that the supply date as mentioned in the invoice will be disclosed correctly in the relevant monthly return (such as GSTR-1, GSTR-2, GSTR-3, GSTR-3B and other relevant forms).

- C. The supplier shall also agree that he will compensate for input tax credit if not allowed to Corporation due to non-disclosure or improper disclosure in the aforesaid returns as required under GST Act.
- D. If the supplier is unregistered under GST Act., in that case the supplier should submit an undertaking that his turnover is within the threshold limit.
- E. Anti-profiteering clause.: The supplier should declare that the benefit on account of change of rate of GST and input tax credit will be passed on to Corporation by way of reducing the contract prices and there shall not be any double taxation.
- F. As and when GST Law requires deduction of withholding tax i.e., TDS under section 51 of GST Law, Corporation shall deduct such tax as per prevailed provisions.
- G. Supplier of goods shall issue way bill as and when required as per provisions of GST law for supply of goods.

3. The tender document will be available from the web site **www.ophwc.com** and the same may be downloaded to be used for tender offer. The tender paper cost as mentioned in the Column - 5 of the above table [Non-refundable] for each project shall be deposited directly through NEFT/RTGS only in the designated account as mentioned below and submit the proof of deposit along with the tender documents, failing which the tender shall be rejected. The details of designated bank account for tender paper cost are follows: -

Name of the Bank A/C – OSPH&WC LTD-K2 TENDER

Bank A/C No – 0042104000537612

Name of Bank & Branch – IDBI Bank Ltd., Janpath, BBSR

IFS Code – IBKL0000042

4. The tenders/bids can be sent by post or courier or dropped in the tender Box at the office of the undersigned as well. However, authorities shall not be responsible for postal and other delays in receipt of bids.

5. Bid documents consisting of specifications, the schedule of quantities and the set of terms and conditions of contract and other necessary documents can be seen in the website: **www.ophwc.com**

6. The authority will not be held responsible for any technical snag or network failure during downloading the tender documents.

7. The bidders are requested to submit the proof of deposit tender paper cost, copies of the M.V/H.T electrical license, Income tax return copy, PAN card, GST Registration

certificate, EPF Registration certificate, ESI Registration certificate and proof of executing same nature of work with copy of work order and completion certificates in support of credential should be enclosed with the tender otherwise the bid shall be rejected. The proof submitted earlier in some other contest shall not be treated as valid and sufficient.

8. The Bidders/Contractors having any type of adverse remarks from Govt./PSU regarding past work experience shall not be eligible for apply of tender. This will be the part of the affidavit to be furnished otherwise the bid shall be rejected.

9. To participate in the tender the bidder must furnish the copy of GSTR-1 of preceding months of tender date otherwise the bid shall be rejected.

10. An affidavit is to be furnished by the bidder at the time of submitting bid document that he is not blacklisted / defaulter contractor or Firm etc. in support of the tender otherwise the bid shall be rejected. The authority reserves the right to reject any or all the bids without assigning any reason thereof and can impose any conditions as deemed proper before finalisation of tender.

11. The bidding document should be superscribed "Name of the work with Sl. No. as per IFB & Tender No."

12. Bids submitted otherwise than in the manner prescribed in the tender document shall be rejected.

13. EMD - The tender document shall be accompanied with EMD as mentioned in the Column- 4 of the above table in shape of TDR/FDR pledged in favour of "The Project Manager, Electrical Division, The Odisha State Police Housing & Welfare Corporation Ltd, Bhubaneswar" failing which the tender shall be rejected. The EMD of the successful tenderer will be refunded after successful completion of the comprehensive warranty period of 24 months (Solar work-As per the warranty clause for Solar work) and will not carry any interest. The EMD of the unsuccessful tenderer will be refunded after completion of the tender process.

14. "If the rate quoted by the bidder is less than 15% of the tendered amount, then such a bid shall be rejected and the tender shall be finalized basing on the merits of rest bids. But if more than one bid is quoted (Decimals up to two numbers will be taken for all practical purposes) either at the Estimated Cost Put to Tender or less than the estimated cost put to Tender, the tender accepting authority will finalize the tender through a transparent lottery system, where all bidders/their authorized representatives,

Asst. Manager (Accounts), Electrical Division and Tender Inviting Authority will remain present.”

*Condition- In a particular TCN (Tender call notice), if any bidder participates in more than two nos. of Projects/Works and the same bidder also awarded in both Projects/Works in chronological/sequential manner through the Transparent Lottery System, in that case He/ She will be excluded in the Transparent Lottery System from rest of the Projects/Works.

15. (Amendment to Para 3.5.5(v))Note-ii of OPWD Code Vol-I by modification)

Note-(II) Additional performance Security shall be obtained from the bidder when the bid amount is less than the estimated cost put to tender. In such an event, the successful bidder who have quoted less bid price/rates than the estimated cost put to tender shall have to furnish as per works Deptt. Office Memorandum No – 075569000520214559/W, dt.05.04.2021 as Additional Performance Security in shape of TDR/FDR pledged in favour of “The Project Manager, Electrical Division, The Odisha State Police Housing & Welfare Corporation Ltd, Bhubaneswar” is to be submitted by the successful bidder who shall deposit the same within seven (7) days of opening of bid failing which the bid of the successful bidder would be cancelled and the security deposit would be forfeited. If permissible in law further proceedings for black listing would be initiated.

16. WARRANTY :- The contractor shall stand for comprehensive warranty against defective materials / manufacturing defects and bad workmanship for the entire work carried out by him for a period of 24 months (Solar work-As per the warranty clause for Solar work) from its handing over to the concerned electrical distribution company/user authority & make good /repair/replace the faults during this period without any extra cost, failing which the same shall be got done at the risk and cost of the contractor. The contractor shall attend the complaints / breakdown relating to the entire work carried out by him on call basis. The work shall be supervised by the qualified supervisor from the contractor’s side.

17. Availability of Bid Documents in the Website: -

www.ophwc.com :- Dt.26.11.2025 to Dt.01.12.2025 up to 5:00 P.M

18. Last date for receipt of tender document is up to: - 12.30 P.M of Dt.02.12.2025

19. Date of opening of bid at: - 1.00 P.M of Dt.02.12.2025

20. The authority reserves the right to reject any or all the bids without assigning any reason thereof. No claim, whatsoever, shall be admissible for the alleged loss/damages suffered by bidders on account of such rejections.

21. All the information as called for in the tender document should be submitted truly, clearly, legible, transparently, unambiguously and without the use of abbreviations. It shall be submitted in English only.

22. All the crucial figures, like rates and amount should be written in figures followed by words in a bracket.

23. There shall be no over writing in the tender document and other papers submitted. All additions, alternations, deletions and cutting should be initialed with rubber-stamp (or seal) by the same person, who signs the tender document, failing which so, the tender may be rejected.

24. The original documents of the successful lowest bidders will be verified at the office of the undersigned on next working day of opening of the bid failing which his tender is liable for rejection.

25. All the rates and amounts shall be quoted in Indian Rupee and shall be presumed to be in Indian Rupee only unless specifically permitted to be quoted otherwise in this tender document.

26. Each page of this tender document should be signed by the bidder with seal in token of having read, understood and accepted the terms and conditions of this contract.

27. Use separate piece of paper where the space provided in the formats in this tender document for submission of information is not sufficient.

28. All information submitted or supplied in the formats of this tender document shall be presumed to be true to the best of knowledge of bidder.

29. If the last date for receipt of the tender/bid turns out to be a holiday, it will automatically be extended to next working day.

30. A bid submitted cannot be withdrawn. The bidder or his authorized representative (one person only) will be allowed to be present at the time of opening of tenders. They will not participate in the discussions. Clarification sought, if any may be provided by them.

31. The Contractor will quote percentage excess/less up to two decimal point only. If he writes the percentage excess/less up to three or more decimal points, the first two decimal point shall only be considered without rounding off.

32. If the bidder has a relative employed as an Officer in the rank of Deputy Manager & above in OPHWC, Bhubaneswar, he shall inform the same in the bid mentioning the exact details in a covering letter along with the tender, failing which his bid will not be considered (**ANNEXURE - B**). Also, if the fact of relationship subsequently comes to light, his contract will be rescinded. The bid security or the performance security will be forfeited and he shall be liable to make good any loss or damage resulting from such cancellation. In case the bidder has no relationship with any of the officers mentioned above he shall have to furnish with his bid a certificate (**ANNEXURE - C**).

33. Advance payment /part payment will not be entertained before completion and handing over the work to the concerned electrical distribution company. For Solar work (as per the payment clause for Solar work).

34. Irrespective of turnover, the Contractor shall submit the E-invoice (in form of B2B against GSTIN 21AABCT7853 N2ZZ) mandatorily before acceptance of payment.

35. Deduction towards Labour Cess @ 1% shall be made from the gross amount of the contractor's claim/bill.

36. No claim can be made due to some unforeseen delay for release of payment.

37. Payment of bill will be made only after successful completion of the work in all respects i.e. Supply, Installation, Testing & Commissioning, charging and hand over the work to the concerned electrical distribution company/user authority. For Solar work (as per the payment clause for Solar work).

38. Deduction towards Security money @ 5 % shall be made from the gross amount of the contractor's claim/bill and same will be released after successful completion of the

24 months of comprehensive warranty period and will not carry any interest. For Solar work (as per the payment clause for Solar work).

39.The OPHWC shall have no liability, financial or otherwise, for any harm/ damage/ injury caused to the manpower/machinery deployed by the firm while performing work of this Department. Neither the firm nor its workers shall have any claim on this Department for compensation or financial assistance on this account.

40.From the commencement of the works to the completion of the same, they are to be under the contractor's charge. The contractor is to be held responsible to make good all injuries, damages and repairs occasioned or rendered necessary to the same by fire or other causes and they hold the OPHWC harmless for any claims for injuries to person or structural damage to property happening from any neglect, default, want of proper care or misconduct on the part of the contractor or any one in his employment during the execution of the work. Also, no claim shall be entertained for loss due to earthquake, flood, cyclone, epidemic, riot or any other calamity whether natural or incidental damages so caused will have to be made good by the contractor at his own cost till completion of comprehensive warranty period.

41. Any damages caused by natural calamities should be done by the contractor at his own cost. The OPHWC will not be any way responsible for the same and will not pay any cost towards the repair done by the contractor till completion of comprehensive warranty period.

42. If the contractor fails to complete the work and clear the site on or before the contract or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the OPHWC on account of such breach, pay as agreed compensation @ 0.5% per day for delay of work, delay to be counted as per day basis. Provided that the total amount of compensation for delay to be paid under this condition shall not exceed 5 % of the work order Value.

43.Request for reschedule and extension of time, to be eligible for consideration, shall be made by the Contractor in writing well before of the happening of the event causing delay with specific reason in form No - 10 of the OAM (OPHWC). The Contractor may also, if practicable, indicate in such a request the period for which extension is desired.

44.In any such case a fair and reasonable extension of time for completion of work may be given. Such extension shall be communicated to the contractor by the tender calling authority in writing within due time.

45.All the transit risk shall be responsibility of the contractor.

46. Failure to complete the work in full within the stipulated period may lead to forfeiture of EMD and blacklisting of the contractor/firm.

47. The authorities are not bound to accept the lowest quoted rate.

48. Terms and conditions of this tender document cannot be negotiated for variations.

49. The authority reserves the right to reject any or all tender in whole or part without assigning any reason and can impose any other condition(s) as deemed proper before or in course of finalization of the tender.

50. The approved tender may be cancelled by the authority any time during validity without assigning any reason thereof and no claim can lie against OPHWC for such cancellation.

51. All materials required for the work should be approved brand of concerned electrical distribution company. Before take up the work the A.P.M (Electrical) concerned shall verify & certify the quality of materials.

52. All the disputes shall be subject to Jurisdiction of Civil Courts situated at Bhubaneswar in exception to High Court Orissa, Cuttack.

Sd/-
Project Manager.

FOR SOLAR WORK

TECHNICAL SPECIFICATIONS, MAKE AND ADDL. TERMS & CONDITIONS

The general scope under this contract includes to design, manufacture, testing, inspection, packing and forwarding, transportation up to project site, loading & unloading, storage in safe custody, erection, carrying out preliminary tests at site, commissioning, performance testing, operation and maintenance for 5 years & handing over to all the equipment of SPV Power plant on the respective sites / as per instruction from time to time. The illustrative Schedule of requirements is in accordance with the specifications contained in this document.

1. SOLAR PV MODULES

The capacity of Solar PV Module must be minimum 500 Wp. or above (Monocrystalline) should only be provided in the array to obtain the required array power output. Indigenously produced PV module (s) containing monocrystalline silicon solar cells should only be used.

All modules must comply with to IEC 61215, 61730 part 1 & 2 (Certificates from MNRE test centers in support of such compliance must be submitted along with the tender document. The other criteria are as follows:

- Crystalline Silicon Solar Cell Modules IEC 61215 Edition (II).
- PV modules must have quality to IEC 61730 Part I & II, for safety qualification testing and to be used in a highly corrosive atmosphere throughout their lifetime, they must qualify to IEC 61701.
- PV modules used in solar power plants must be warranted for output wattage, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years.
- Each PV module used in solar power project under this tender must use a RF identification tag (RFID), which must contain the following information. The RFID should be laminated inside the module and but must be able to withstand harsh environmental conditions.
 - Name of the manufacturer of PV Module.
 - Name of the manufacturer of Solar cells.
 - Month and year of the manufacture (separately for solar cells and module).

- Country of origin (separately for solar cells and module).
- I-V curve for the module.
- Peak Wattage, I_m , V_m and FF for the module.
- Unique serial No and Model No of the module.
- Date and year of obtaining IEC PV module qualification certificate.
- Name of the test lab issuing IEC certificate.
- Tier - 1 Manufacturer
- Should have Antireflective coating on the solar glass that can effectively transmit the incident light within the visible wave length ranging up to 95%.
- IP 68 rating Junction box.
- Frame thickness should be minimum 36 mm to show outstanding performance in the visual inspection maximum power determination, insulation test and wet leakage current test before and after dynamic mechanical load test performed in accordance with the IEC guidelines.
- Out back sheets should come with an outer protective layer made of a very weather able fluoro film that promise excellent durability performance. Furthermore, the back sheets feature very low WVTR and higher electrical insulation process.
- Solar panel warranty - 25 years

2. **MODULE MOUNTING STRUCTURE**

- Module mounting structures should be non-invasive type.
- The structures should be laid on the ground on whether resistant FRP mountings which should be non-penetrating type and proper drainage of rain water over ground through the installation area should be maintained.
- The structures should be suitably loaded with re-enforced concrete blocks of appropriate weight made out of M25 concrete mixture.
- Special care should be taken while designing all structures for modules to cater to heavy rainfall.
- PV array shall be installed in the ground free from any obstruction and /or shadow.

- PV array shall be installed utilizing optimum ground space to minimize effects of shadows due to adjacent PV panel rows.
- Adequate spacing shall be provided between two panel frames and rows of panels to facilitate personnel protection ease of installation, replacement, cleaning of panels and electrical maintenance.
- The minimum clearance between lower edge of PV panel and terrace ground level shall be 500mm to allow ventilation for cooling, also ease of cleaning and maintenance of panels as well as cleaning of terrace.
- The PV array structure design shall be appropriate with a factor of safety of min. 1.5.
- Each PV panel structure shall incorporate one bird repellent spike at a level higher than the panel upper edge. The location of the spike should be selected for minimum shadow effect.
- The support structure shall be free from corrosion when installed.
- PV modules shall be secured to support structure using screw fasteners and / or metal clamps. Screw fasteners shall use existing mounting holes provided by module manufacturer. No additional holes shall be drilled on module frames. Module fasteners / clamps shall be adequately treated to resist corrosion.
- Adequate spacing shall be provided between any two modules secured on PV array for improved wind resistance.
- The structure shall be designed to withstand operating environmental conditions for a period of minimum 25 years.
- The total load of the structure (when installed with PV modules) on the ground should be less than 50 kg/m². The load shall be well distributed so that point loads are well within the limits.
- The structure should be appropriate designed to withstand high wind velocities up to 180-220 km per hour. (The bidder is required to submitted a certificate from an authorized chartered engineer with regards to the strength and durability of the structure).

3. ARRAY FOUNDATION

The legs of the structures made with hot dip GI angles will be fixed and grouted in the RCC foundation columns made with 1:2:4 cement concrete. The work includes necessary excavation, concreting, back filling, shoring & shuttering etc.

4. JUNCTION BOXES (JBS)

The junction boxes shall be dust and waterproof and made of thermo-plastic. The terminals will be connected to copper lugs or bus bar of proper sizes. The junction boxes will have suitable cable entry points fitted with cables glands. Suitable markings shall be provided on the legs or bus bar for easy identification and cable ferrules will be fitted the cable termination points for identification. Each main junction box shall be fitted with appropriate rating blocking diode. The junction boxes shall be of reputed make.

- Array Junction Box should be IP 65 as per IEC 529 and should provide with reverse blocking diodes, fuses and Isolators of suitable ratings.
- D.C Distribution box should comply with IP 65 as per IEC 529. It should be equipped with suitable rating of D.C isolators for solar input from array junction box and fuse of suitable rating between P.C.U and battery.
- A.C distribution box should comply with IP 65 as per IEC 529 and should be equipped with suitable rating of MCB between PCU and load.
- All switches, circuit breakers and connectors should comply with IEC 60947 (part –i, ii, iii) / IS 60947 (Part-i, ii , iii).

5. BATTERY BANK

There will be one battery bank comprising of appropriate capacity for respective SPV Power Plant (Off-Grid). The batteries should be of LMLA Type and shall have long service life. The cells should confirm IEC 61427 / IS 1651 / IS 133369 and as per specification given below shall be provided.

BATTERY BANK	
Capacity	[I] Battery Bank suitable for 08 KWp Off-grid Solar PV System with 6 hr. power back up for connected power load of 08 KW. 7.2 Vah/Wp, 12V, C10, minimum 150 AH or above LMLA Battery Bank.
Container	Polypropylene Co-polymer/hard rubbers with carrying handle.

Terminals	Made of lead alloy suitable for bolted connection. The terminals should be greased with petroleum gel.
Self-Discharge	Less than 3% per month at 30 degree C
Life expectancy	1500 cycle duty at 27degree C at 80% depth of discharge 3000 cycle duty at 50% discharge.
Battery Voltage	7.2 Vah/Wp, 12V, C10, minimum 150 AH or above LMLA Batteries.
Service Life	Manufacturer warranty minimum 5 years.

6. POWER CONDITIONING UNIT (PCU)

As SPV array produce direct current electricity, it is necessary to convert this direct current into alternating current and adjust the voltage levels before powering equipment designed for nominal mains AC supply. Conversion shall be achieved using an electronic Inverter and the associated control and protection devices. All these components of the system are termed the “Power Conditioning Unit” OR simply PCU to maximize Solar PV array energy input into the System. PCU should conform IEC 61683, IEC 60068 as per specifications.

PCU refers to combination of charge controller, inverter and AC charger and shall be supplied as integrated unit.

Inverter

The inverter will be highly efficient. The inverter should confirm IEC 61683 /IS 61683, IS 16169/IEC 62116, IEC 60068 and should be based on MPPT design. Inverters would display its own parameters and the parameters of battery bank connected to the inverter. Beyond the maximum load the inverters will trip. The inverters should be designed to be completely compatible with the charge controllers and distribution panels and are of integrated design. Salient features of the Inverters shall be as follows:

- The PCU should be designed to be completely compatible with the SPV array voltage.
- The combined KVA rating of all PCUs shall not be less than corresponding KVA at standard temperature.
- Optimum numbers of central inverter with MPPT shall be used with the power plant for maximum efficiency and shall be efficient based on PWM MPPT with IGBT/ reliable power based design.
- The sine wave output of the inverter shall be 230V, Single phase, 2 wire 50 HZ AC LT voltage for power plant capacity 08 KWp.

- The peak inverter efficiency inclusive of built in isolation transformer shall exceed 90% at full load.
- Inverter shall provide display of PV array DC voltage & current, Battery Voltage & Current, Inverter Voltage & Current, Grid voltage & Current, Battery charging status and required parameters when fault occurs. Remote monitoring of inverter parameters should be possible.
- Operating temperature Range shall be 0 to 55 deg C.
- The charge controller/ MPPT units should qualify to IEC standards.
- Online microprocessor-based Data Acquisition Systems and Remote Monitoring facility for 365 days with data Recovery from remote location should equip.
- Firm should have sufficient enclosure on report preparation and should provide energy generation report on demand of officials.
- All PCUs must be provided with remote monitoring and data acquisition systems.
- PCU should work at low voltage range from 110 v to 230 v.
- There should be provision to charge the battery using Grid power as long as Grid voltage is between 170V- 265V. In case the Grid voltage falls below 170V up to 130V, Grid charging shall stop but load shall continue to run using Grid supply not by Solar. In case of three phase system, phase to neutral voltage shall be in this range for all three phase.
- There should be provision to export excess PV power to Grid in case the load consumption is less than actual generation only for the plants having capacity equal to and more than 05 KW. This is futuristic feature and provision should be there to enable or disable this export feature.

Inverter Capacity	Single Phase, 120 VOLT, (08 KW/ 10 KVA) with Remote Monitoring System.
Nominal Battery Bank Voltage	Sl. No - 5 (Battery Bank) of Technical Specifications.
Output frequency	50 Hz +/- 0.5 Hz
Overload Capacity	200% for 5 Second
Efficiency	80% at 50% of load and more than 90% at full load (0.8 PF)
Short Circuit Protection	Circuit Breaker and Electronics protection against sustained fault.
Low Battery Voltage	Automatic Shut Down.

Total Harmonic Distortion	Less than 3%
Over Voltage	Automatic Shut Down.
AC over Current/Load	Automatic Shut Down.
Protection	Over Voltage both at Input & Output, Over Current both at Input & Output, Over Frequency & Surge voltage inducted at output due to external source.
D.G Synchronization	Yes
Protection Degree	IP20/IP21
Instrumentation & Indication	Input & Output voltage, Input & Output Current, Frequency, Power Output, different status of inverter, kind of fault by audio signal.

Charge Controller Unit

The Charge Controller shall be dual input type, where under normal condition the input is fed from a SPV panel and in the absence of SPV power or low SPV power conditions an external single phase AC source can be used for battery charging. A selector switch shall be provided for choosing between those modes. When the batteries are charged from external AC sources, the charging current should be set manually depending on the capacity of the source and the charging requirement of the batteries. The charge controller shall be of MPPT type employing IGBT switching elements.

Charge controller should confirm IEC 62093 / IEC 60068 as per specification.

The charging sequence from SPV array or external AC source shall be as follows:

From SPV Array

The battery shall be charged at the maximum rate depending on the solar radiation until the battery terminal voltage reaches 2.25 volts per cell. The battery charging should be automatically terminated when the rate of increase of battery voltage is steady (dv / dispensing). The charger shall switch on the, trickle charge after this.

7. AC DISTRIBUTION PANEL BOARD

The AC Distribution Board shall consist of the components as per designed PCU.

8. CABLES & WIRINGS

All cables shall be supplied conforming to IEC 60227/ IS 694 & IEC 60502/IS 1554. Voltage rating: 1,100V AC, 1,500V DC. For the DC cabling, XLPE or XLPO insulated and sheathed, UV stabilized single core flexible copper cables shall be used. Multi-core cables shall not be

used. For the AC cabling, PVC or XLPE insulated and PVC sheathed single or multi-core flexible copper cables shall be used. Outdoor AC cables shall have a UV-stabilized outer sheath. The total voltage drop on the cable segments of entire system should not exceed 2.0%. The DC cables from the SPV module array shall run through a UV stabilized PVC conduit pipe of adequate diameter with a minimum wall thickness of 1.5mm. Cables and wires used for the interconnection of solar PV modules shall be provided with solar PV connectors (MC4) and couplers. All cables and conduit pipes shall be clamped to the rooftop, walls and ceilings with thermo-plastic clamps at intervals not exceeding 50 cm. The minimum DC cable size shall be 4.0 mm² copper. The minimum AC cable size shall be 4.0 mm² copper.

9. DANGER PLATES

The bidder has to provide at least 8 Danger Notice Plates of 200 mm X 150 mm made of mild steel sheet, minimum 2 mm thick and vitreous enameled white on both sides and with inscription in signal red colour on front side as required. The inscription shall be in English and local language. Out of eight, four danger notice shall have to be provided at PV Yard & Four-danger notice at Control Room & Battery room.

10. LIGHTNING & OVER VOLTAGE PROTECTION SYSTEM

- The SPV power plant should be provided with Lightning and over voltage protection, connected with proper earth pits. The main aim of over voltage protection is to reduce the over voltage to a tolerable level before it reaches the PV or other sub-system components. The source of over voltage can be lightning or other atmospheric disturbance.
- The lightning Conductors shall be made of 25 mm diameter 4000 mm long GI spike as per provisions of IS 2309-1969. Necessary concrete foundation for holding the lightning conductor in position to be made after giving due consideration to maximum wind speed and maintenance requirement at site in future. The lightning conductor shall be earthed through 20 mm X 3 mm thick GI flat earth pits/earth bus made with 25 mm X 5 mm GI flats.

11. EARTHING SYSTEMS

Chemical Earthing (Maintenance Free) system including Lightning & Surge Protection arrangement to be provided. Earthing system design should be as per the standard practices and should conform to the latest edition of IS 3043.

12. DISPLAY BOARD

You shall provide the display board of size 3 ft x 3 ft that gives detailed circuit diagram of the system with its description.

13. COMPREHENSIVE MAINTENANCE CONTRACT (CMC)

The PV module (s), battery bank, Inverter and other sub – components (Entire System) will be warranted as per the given clause. The manufacturers can also provide additional information about the system and conditions of warranty as necessary. Scope of Operation & Maintenance of SPV Power Plant for a period of 5 years from date of commissioning and hand over to the user authority.

Regular maintenance of the SPV Power Plant for a period of 5 years after commissioning along with supply of consumable items.

The breakdown maintenance of the entire system including supply of necessary spare parts if any shall be for a period of 5 years from the date of commissioning of power plant and hand over to the user authority.

- 5 years maintenance period shall begin on the date actual commissioning and hand over to the user authority of the power plant.
- Normal and preventive maintenance of the power plant, tightening of all electrical connections, changing of tilt angle of module mounting structure, cleaning & greasing of battery terminals, etc. Shall be covered under CMC and performed once in three months. The report should be counter signed by the user authority and submitted to OSPHWC for record.
- During maintenance period of the power plant, if there is any loss or damage of any component of the power plant due to miss management/miss handling or due to any other reasons pertaining to the vender's deputed personnel, what-so-ever, the vender shall be responsible for immediate replacement/rectification. The damaged component may be repaired or replaced by new component. It is understood after examination the performance of the component or the system shall not degrade. Upon intimation of any breakdown/fault, the vendor shall take steps to rectified the same within a maximum period of 48 hrs.

14. DRAWINGS & MANUALS

2 copies of Engineering, electrical drawings and Installation and O&M manuals are to be supplied by the bidder. Bidders shall provide complete technical data sheets for each equipment giving details of the specifications along with make/makes in their bid along with basic design of the power plant and power evacuation, synchronization and distribution for street lighting system along with protection equipment. Approved ISI and reputed makes for equipment be used. For complete electro-mechanical works, bidders shall supply complete design, details and drawings for approval to OPHWC before progressing with the installation work.

15. ACCEPTANCE/REJECTION

OPHWC reserve the right to accept/reject any or all tenders without assigning any reason thereof and alter the quality of materials mentioned in the tender documents at the time of placing work order Tender. Tender will be summarily rejected if.

- I. EMD at the rate of 1% of the estimated value is not deposited in shape of TDR/FDR pledged in favour of “Project Manager, Engg., Electrical Division, The Odisha State Police Housing & Welfare corporation Ltd, Bhubaneswar.”
- II. Complete technical details are not enclosed.
- III. Tender is received after the last date for what-so-ever reasons.

16. COMMERCIAL TERMS AND CONDITIONS

The offer should be for Design, Supply, Installation, Testing & Commissioning of 20 KWp. (2 x 10 KWp.) Off-grid Solar PV System (Ground/Roof top) mounted with 6 hr. Power Back up and Comprehensive Maintenance Contract for a period of 05 (five) years inclusive of packing, forwarding, loading, unloading charges, cost of insurance and transportation for destination where the system will be installed as per work order but exclusive of GST @ 18 %.

17. PERFORMANCE SECURITY DEPOSIT TOWARDS CMC (COMPREHENSIVE MAINTENANCE CONTRACT)

The successful bidder must deposit five nos. of Bank Guarantee (BG) each of value equal to 2% of ordered value towards security cum performance guarantee fees with OPHWC, Bhubaneswar along with bills, challans and all other document as per payment clause before processing payment. Bank Guarantee will remain valid for 1, 2, 3, 4, and 5 years respectively from the date of installation of the system. The

Performance Bank Guarantees will be returned after completion of 1st, 2nd, 3rd, 4th and 5th year of successful maintenance subject to receipt of satisfactory report from the User Authority.

18. FORFEITURE OF SECURITY DEPOSIT/PERFORMANCE BANK GUARANTEE

The said deposit would be forfeited in the following cases.

- If the system are not installed and commissioned as per given schedule.
- If the system are not properly maintained and the performance of the system do not meet the standard mentioned in the work order.

19. WORK EXECUTION SCHEDULE

- All ordered system must be installed and commissioned in all respects within 90 days of receipt of firm work order.
- Under exceptional circumstances the period of execution can be extended reasonably only upon writer request by the vender.
- Upon intimation about commissioning of the system by the executing agency a joint inspection will be carried out by the representatives of executing firm and officers of OPHWC.

20. VALIDITY OF OFFER

The offer must be kept valid for a period of one year from the date of opening of tender. No escalation clause except the admissible tax component under the period of consideration would be accepted.

21. WARRANTY

- The complete system should be warranted against any manufacturing defect or bad workmanship at least 5 years from date of commissioning and hand over to the user authority.
- Battery Bank should be maintenance free and warranted for a period of 5 years.
- Warrantee certificate to this effect must be furnished along with the commissioning reports. Any defects noticed during warranty period should be rectified/replaced by the supplier free of cost upon intimation by authority.

- The supplier will furnish warranty certificate from the manufacturer positively for Solar Panel, PCU, Battery, AC&DC junction box besides other balance of equipment.

22. INSPECTION

- All testes and inspections shall be made at the place of delivery. Offers authorized by OPHWC shall be entitled at all reasonable time to inspect and supervise and test during erection and commissioning. Such inspection will not relieve the executing firm of their obligation in the contract.
- OPHWC shall have the right to have the tests carried out at its own cost by an independent agency at any point of time.

23. PAYMENT

- 100% of the cost of system and installation charge along with all applicable tax shall be released upon commissioning of the systems at the location specified in the purchase order upon due verification by authorized officers and submission of following documents.
 - Performance report signed by the User Authority.
 - JCC.
 - Warranty.
 - GPS based photograph.
 - Web enabled generation report.
 - I-V Curves.
 - Operation manual.
 - Dos & Don'ts in the form of a booklet.
 - Conducting training programme.
- But out of 100 %, 10% will be withheld as retention money and same shall be released after 3 months' successful performance of the systems and submission of performance reports thereon.

24. EXECUTION

Execution of work shall be carried out in an approved manner as outlined in the technical specification or where not outlined, in accordance with relevant Indian Standard Specification, to the reasonable satisfaction of the Authorized OPHWC officer.

25. COMPREHENSIVE MAINTAINANCE CONTRACT (CMC)

The bidder must enter into a Comprehensive Maintenance Contract for the specified period (05 years) at the time of execution of the order and during the process of bidding, CMC format as enclosed at Annex-A, in the DTCN need not be submitted along with the bid.

26. LIMITAION OF LIABILITY

OPHWC, will, in no case be responsible for any accident fatal or non-fatal, caused to any worker or outsider in course of transport of work. All the expenditure including treatment or compensation will be entirely borne by the Executants. The Executants shall also be responsible for any claims of the workers including PF, Gratuity, ESI & other legal obligations. The bidder must ensure that the workmen deployed in the project are adequately qualified and cover under required insurance.

27. DISPUTE

For adjudication of any dispute between OPHWC and the bidders arising in this case, reference can be made to any Law courts under the jurisdiction of Odisha High Court only. OPHWC reserves the right to accept or reject any or all bids without assigning any reason thereof.

Sd/-
Project Manager.

Model Bank Guarantee Format for Performance Security

Annexure-II of Finance Department Office Memorandum 4939 dtd 13.2.12, Govt. of Odisha

[Ref Para 22(i1)]

To

WHEREAS----- (name and address of the supplier)

(hereinafter called "the supplier") has undertaken. in pursuance of contract no-----

dated----- to supply -----(description of goods and services) (herein after called "the contract")' AND WHEREAS it has been -stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein, as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee; NOW THEREFORE we hereby affirm that we, are guarantors and responsible to you on behalf of the supplier. up to a total of ----- .(Amount of the guarantee in words and figures).and we undertake to pay you. Upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee)as aforesaid. without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your- demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other 'modification of the terms of the contract to be performed there under or of any of the contract documents --which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change. Addition or modification.

This guarantee shall be valid until the day of-----20----- Our branch at * (Name & Address of the ____ * branch) is liable to pay the guaranteed amount depending on the filing of claim and any part thereof under this Bank Guarantee only and only if you serve upon us at our----- * branch a written claim or demand and received by us at our ____ * branch on or before Dt.-----otherwise bank shall be discharged of all liabilities under this guarantee thereafter.

(Signature of the authorized officer of the Bank)

Name and designation of the officer

Seal.name& address of the Bank and address of the Branch

SAMPLE FORMAT FOR C.M.C

(Subject to modification as per suitability of system and project requirement)

Comprehensive Maintenance Contract (CMC) for maintenance of SPV power plant supplied and install by M/S

.....

for five years.

This Comprehensive Maintenance Contract (CMC) is executed between the THE ODISHA STATE POLICE HOUSING & WELFARE CORPORATION LTD., JANAPATH, BHOINAGAR, BHUBANESWAR – 22., represented by its Project Manager, Electrical Division herein after called as Ist. party and M/S

.....

.....

herein after called as 2nd party, for maintenance of sets of..... for a period of

five years with effect fromAD, supplied, installed and commissioned vide purchase order

No Dated in village
..... blocks of

Districts.

The 2nd party will maintain these Systems as per the terms and conditions mentioned

here under.

1. It has been envisaged in the purchase order No/ ED/OPHWC dated..under clause No that these No/sets of shall be warranted against any

manufacturing defect and bad workmanship at least for a period of 5 years for the system and battery and 10 years for the PV modules from the date of commissioning .

As these systems have been commissioned and handed over to the User Authority through 1st party at During all these systems , as such are covered under warranty period up to, and.....respectively.

Hence, the 2nd

party is fully responsible for their trouble free maintenance

and the 2nd party is liable to rectify / remove any defect noticed within the aforesaid period free of cost.

2. The 2nd party will impart training to two nos. of designated person of the User Authority to be able to provide first aid repair service for the SPV systems installed.

3. The 2nd party will ensure a formal training of such designated person of the User Authority in consultation with the 1st party.

4. The CMC includes repair/ replacement of complete systems, including all necessary components, sub-components, spares, tools, tackles etc during the maintenance period.

5. The 2nd party shall undertake the periodical maintenance work of the system on the 10th of every succeeding quarter duly countersigned by User Authority.
6. The 2nd party should be in readiness to attend to the defects of the system as and when required by the User Authority and ensure rectification of defects and restore functionality within seven days of lodging the complaints. The 2nd party shall furnish the status report after the maintenance work are over, which shall invariably bear the signature of the User Authority.
7. The 2nd party shall appraise the User Authority about the requirements and supply of spares during warranty as well as CMC period.
8. The 2nd party will ensure to submit quarterly reports of visits made by their representatives to the project site every three months during the warranty and CMC period.
9. Certificates in support of successful maintenance of the system(s) shall be obtained from the User Authority in token of verification of maintenance done.
10. It will be the liberty of the 1st party to cross checks the systems maintained by the 2nd party. Random verification of the maintenance may be carried out by the 1st party wherever necessary.
11. The 2nd party may continue to maintain the gadgets after expiry of the maintenance period of 05 years , provided the OPHWC / User Authority desires.
12. For adjudication of any dispute between 2nd party and User Authority arising on execution of this CMC, the matter shall first be brought to the notice of OPHWC.
13. In case, there will be no amicable settlement of the issues, the matter can be referred to the court of law having jurisdiction at Bhubaneswar only. The Annual Maintenance contract is signed jointly between the two parties today i.e on dated and shall come into force from the date of its signature(s).

For and on behalf of OPHWC, Bhubaneswar

.....

For and on behalf of M/S

(1stParty)

(2ndparty) with Seal

MAKE AND SPECIFICATIONS

DESIGN, SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 8 KWp. OFF-GRID SOLAR PV SYSTEM (GROUND/ROOF TOP) MOUNTED WITH 6 HR. POWER BACK UP AND COMPREHENSIVE MAINTENANCE CONTRACT FOR A PERIOD OF 05 FIVE YEARS (SIXTY MONTHS).

SL.NO	ITEMS	MAKE	SPECIFICATION	QUANTITY
1	SOLAR PV PANEL	VIKRAM / WARREE / TATA POWER SOLAR SYSTEMS / PANASONIC SOLAR/ LUMINOUS	MINIMUM 500 Wp. OR ABOVE. (MONOCRYSTALLINE)	AS PER REQUIREMENT FOR 08 KWp. OFF-GRID SOLAR PV SYSTEM (GROUND/ROOF TOP) MOUNTED WITH 6 HR. POWER BACK UP TO 08 KW POWER LOAD.
2	SOLAR P.C.U	MINOUS / STATCON / MICROTEK / SU-KAM POWER SYSTEMS	SINGLE PHASE, 120 VOLT, 08 KW WITH REMOTE MONITORING SYSTEM.	-DO-
3	SOLAR BATTERY	EXIDE / OKAYA / LUMINOUS (BATTERIES SHALL HAVE TO APPROVED BY ERTL / CPRI / OTHER MNRE APPROVED TEST CENTRE)	7.2 Vah/Wp, 12V, C10, MINIMUM 150 AH OR ABOVE LMLA BATTERY BANK .	-DO-
4	D.C DISTRIBUTION BOX (D.C.D.B)	MCB-LEGRAND / L & T	AS PER REQUIREMENT	-DO-
5	A.C DISTRIBUTION BOX (A.C.D.B)	MCB-LEGRAND / L & T	AS PER REQUIREMENT	-DO-
6	100 AMP. HRC FUSE WITH ENCLOSURE	L&T/ ABB	AS PER REQUIREMENT	-DO-
7	D.C CABLE (SOLAR PANEL TO D.C.D.B)	FINOLEX / POLYCAB / HAVELLS	6 SQ. MM SINGLE CORE COPPER D.C SOLAR CABLE-UV-FRS AS PER COLOUR CODE	-DO-
8	D.C CABLE (D.C.D.B TO	FINOLEX / POLYCAB /	25 SQ. MM SINGLE CORE	-DO-

	P.C.U, P.C.U TO BATTERY & BATTERY TO P.C.U)	HAVELLS	COPPER D.C SOLAR CABLE-UV-FRS AS PER COLOUR CODE	
9	A.C CABLE (P.C.U TO A.C.D.B & A.C.D.B TO LOAD)	FINOLEX / POLYCAB / HAVELLS	10 SQ.MM. SINGLE CORE COPPER A.C CABLE-UV-FRS AS PER COLOUR CODE	-DO-
10	CABLE LUGS	REPUTED	6, 10, & 25 SQ.MM.	-DO-
11	MC-4 CONNECTORS	REPUTED	AS PER REQUIREMENT	-DO-
12	STRUCTURE FOR SOLAR MODULES INCLUDING ASSORTED SIZE NUT BOLTS AND ANCHOR BOLTS.	REPUTED	HOT DIP GALVANISE IRON / ALUMINIUM MOUNTING STRUCTURE WILL HAVE ANGLE OF INCLINATION AS PER THE SITE CONDITION.	-DO-
13	SCREW & WALL PLUG	REPUTED	SS-PLASTIC	-DO-
14	EARTHING	ABB/ STAR-X/ UNIVERSAL	CHEMICAL EARTHING	-DO-
15	LIGHTNING ARRESTER	REPUTED	CU- 1.3 M /13 MM	-DO-
16	HOT DIP G.I STRIP	REPUTED	19 MM X 3 MM	-DO-
17	INSULATOR FOR G.I STRIP	REPUTED	FLAT INSULATOR AND PLASTIC INSULATOR	-DO-
18	CABLE TIE	REPUTED	300 MM BLACK	-DO-
19	G.I SADDLE AND C- CLAMP	REPUTED	25 SQ.MM.	-DO-
20	FLEXIBLE PIPE	REPUTED	25 SQ.MM.	-DO-
21	CABLE TRAY WITH COVER (PVC)	REPUTED	45 MM X 45MM	-DO-
22	FIRE EXTINGUISHER (CO ₂)	CEASE FIRE/ FIRE SHIELD/UFS	CO ₂ -2 K.G.	-DO-
23	DANGER SIGN BOARD	REPUTED	AS PER REQUIREMENT	-DO-
24	ALL ELECTRICAL WIRINGS & ACCESSORIES REQUIRED FOR POWER BACK UP TO 10 KW POWER LOAD OF DIFFERENT BUILDINGS	WIRE - FINOLEX/ POLYCAB/HAVELLS MCB - LEGRAND / L & T SWITCH & SOCKET - ANCHOR (ROMA)	AS PER REQUIREMENT	-DO-

Sd/-
Project Manager.

GENERAL BID FORM
(ANNEXURE - A)
BID REFERENCE NO: - 65/PM/ELECT/OPHWC/2025-26

1.(A) Name Firm:

(B) Full Address:

(C) Fax No:

(D) Telephone No:

(E) E-mail address of the firm:

2. Legal Status of the firm:

3. Give the location and address of your local office/ Branch office:

4. Kindly confirm by writing "Yes" or "No" only.

[A] Have you enclosed the EMD? If yes, mention the amount and its identifying details.

[B] Have you enclosed the bid document cost? If yes, mention the amount and its identifying details.

[C] Have you enclosed the copy of valid GST registration certificate?

[D] Have you enclosed the copy of PAN card?

[E] Have you enclosed the copy of valid EPF Registration certificate?

[F] Have you enclosed the copy of valid ESI Registration certificate?

[G] Have you enclosed the copy of valid M.V/H.T Electrical License?

[H] Have you enclosed the copy of audited balance sheet?

[I] Copies of assessment return of income tax of last three years?

[J] Have you enclosed the documents regarding proof of executing same nature of works?

[K] Have you enclosed the affidavit regarding not blacklisted / defaulter contractor or Firm?

[L] Have you enclosed the affidavit regarding any type of adverse remarks from Govt./PSU regarding past work experience?

[M] Have you enclosed the copy of GSTR-1 of preceding months of tender date?

[N] Have you enclosed all the documents and papers called for in this tender document?

Kindly enclose a list. (Use a separate sheet of paper)

[O] If the answer to **[N]** above is 'No', which of the Documents / papers called for in the tender document have not enclosed?

(Kindly enclose a list of such document/papers – Use separate Sheet of paper, if necessary)

Sd/-
Project Manager.

CERTIFICATE OF NO RELATIONSHIP
(ANNEXURE - B)
BID REFERENCE NO: - 65/PM/ELECT/OPHWC/2025-26

I/We hereby certify that I/We am/are **related/not related** to any officer of OPHWC of the rank of Deputy Manager & above. I/We am/are aware that, if the facts subsequently proved to be false, my/our contract will be rescinded with forfeiture of E.M.D and security deposit and I/We shall be liable to make good the loss or damage resulting from such cancellation.

I/We also note that, non-submission of this certificate will render my / our tender liable for rejection.

N: B: - Strike out which is not applicable.

Signature with seal of the Bidder

Date: -

RELATIONSHIP DECLARATION

(ANNEXURE - C)

BID REFERENCE NO: - 65/PM/ELECT/OPHWC/2025-26

To,

The Tender Inviting Officer,
 Subject: (Name of the Work)
 Reference: (Bid reference number)

Sir,

Pursuant to clause 32 of the schedule, it is to inform that I have relative(s) employed as an officer of OPHWC of the rank of Deputy Manager & above. His /Her (Their) details are as follows.

Relationship:

Name:

Designation:

Office:

Address:

Pursuant to clause 32 of the General Condition of the Contract, I am to submit herewith the names of persons who are working under my firm having near relative (s) employed as an officer of OPHWC of the rank of Deputy Manager & above. His/her (Their) details are as follows.

Sl No.	Name of my employee and his designation in the firm	Presently working at	Details of his relatives working in the Department
1.			Relationship Name: Designation Office Address

I am also duty bound to inform the relationship of any subsequent employee to any officer of OPHWC of the rank of Deputy Manager & above. I am aware that any breach of this condition would render my firm liable for penal action for suppression of facts.

Yours sincerely,

Signature with seal of the Bidder

Date: -

Total: - 34 (Thirty-four) Pages only.

Approved

Sd/-
 Project Manager.