QUANGANHCONS

INDUSTRIAL SOLAR PRE-SURVEY ESTIMATE · 1.5 MWp

QAC-SOL-EST-20261109-0BB4DA59 | QAC Solar 8.21.0 | 09 Nov 2026

> PRELIMINARY - Indicative selling prices before site survey; not a firm EPC bid. Grid/PCC, roof condition and any new MV scope must be verified.

DESCRIPTION / SPECIFICATION	UNIT	QTY	UNIT PRICE (VND)	AMOUNT (VND)
I. PV modules and inverters				
1. PV modules640 Wp · 2382x1134x30mm	module	2344	4,021,341	9,426,023,304
2. Grid-connected string inverter125 kW AC · 400 V · 3 phase · 12 MPPT	set	11	197,657,130	2,174,228,430
3. Sungrow Logger1000A/B data logger — provisional selectionSungrow · Data acquisition and monitoring. Export control is subject to the confirmed system configuration.	set	1	21,585,855	21,585,855
4. RS485 shielded twisted-pair cable, 2 × 0.75 mm²	m	250	35,824	8,956,000
5. Communication patch cables	pc	2	95,240	190,480
139. Bidirectional power meter/transducer at PoCBidirectional power measurement for control at the connection point.	pc	1	7,160,333	7,160,333
140. PoC CT/VT metering scope — voltage and wiring pendingMetering scope; CT/VT configuration subject to the confirmed scheme.	lot	1	14,355,618	14,355,618
141. Export-control integration and response/fail-safe testingExport limitation integration and interlock testing under the confirmed design.	lot	1	6,729,995	6,729,995

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DESCRIPTION / SPECIFICATION	UNIT	QTY	UNIT PRICE (VND)	AMOUNT (VND)
142. Network, auxiliary supply and monitoring enclosure scopeAdditional monitoring infrastructure; configuration subject to site confirmation.	lot	1	4,769,672	4,769,672
II. Mounting and roof attachments				
6. Roof attachments / mounting feet	set	4950	30,515	151,049,250
7. Aluminium mounting railsChiko	bar	1304	427,420	557,355,680
8. Rail joiner kits	set	1042	23,911	24,915,262
9. Mid-clamp kitsChiko	set	4426	14,441	63,915,866
10. End-clamp kitsChiko	set	524	14,304	7,495,296
11. Module bonding clipsChiko	set	4426	14,441	63,915,866
12. Rail earthing terminalsChiko	set	262	29,802	7,808,124
14. DC cable clipsChiko	set	4688	2,983	13,984,304
III. DC electrical system				
17. Black DC PV cable 6 mm²Leader DC-6-BK · Single-core PV cable; 1,500 VDC; UV resistant.	m	10480	31,523	330,361,040
18. Red DC PV cable 6 mm²Leader DC-6-RD · Single-core PV cable; 1,500 VDC; UV resistant.	m	10480	31,523	330,361,040
19. Matched DC connector pairLeader · Same-manufacturer/series connectors compatible with the equipment.	pair	262	38,953	10,205,686
20. Outdoor DC cable conduitCVL	m	2096	13,393	28,071,728
21. DC conduit fittingsCVL	set	262	8,892	2,329,704
22. UV-resistant cable ties, 200 mmKST	bag	10	66,674	666,740

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23. UV-resistant cable ties, 300 mmKST	bag	8	66,673	533,384
IV. AC switchboards and protection				
26. Solar switchboard enclosure — IP, Form and dimensions pendingEnclosure; circuit breakers and busbars are itemised separately.	pc	3	19,710,570	59,131,710
27. Fabricated copper busbar assembly with supports and N/PE accessoriesCopper busbars, fabrication, supports and N/PE accessories.	assembly	3	9,449,252	28,347,756
28. Phase indication protection set	set of 3	3	133,340	400,020
29. Phase indication lamps	pc	9	50,003	450,027
30. AC board multifunction meter including energy measurementSelec · Operational metering at the AC board; does not replace control metering at the connection point.	pc	3	3,895,021	11,685,063
32. Metering current transformersOmega CT-800/5A class 0.5S	pc	9	1,112,612	10,013,508
33. Auxiliary circuit protection — rating pendingOmega	pc	3	1,000,405	3,001,215
34. Switchboard temperature sensor	pc	3	555,681	1,667,043
35. Switchboard ventilation fans	pc	6	1,334,775	8,008,650
36. AC surge protection — coordination and ratings pendingHimel	set	3	3,895,019	11,685,057

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37. Main AC circuit breakerMitsubishi AE2000-SW 3P 2000A DR · Icu/Ics ratings must suit the prospective fault current at the installation point.	pc	3	158,854,997	476,564,991
38. Individual inverter AC circuit breakerMitsubishi NF250-CV 3P 250A · Icu/Ics ratings must suit the prospective fault current at the installation point.	pc	11	4,180,097	45,981,067
V. AC cables and terminations				
39. Inverter AC phase cable 150 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	825	832,358	686,695,350
40. Main AC cable, parallel runs per design 150 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	1260	885,628	1,115,891,280
41. Main protective conductor 95 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	315	488,822	153,978,930
43. Main cable copper lugs — hole size pendingCU-LUG-150	pc	72	83,448	6,008,256
44. Lug connection bolts — terminal size pendingCadivi	set	72	22,230	1,600,560
45. Inverter phase conductor lugsCU-LUG-150	pc	66	83,438	5,506,908
46. Inverter PE conductor lugsCU-LUG-95	pc	22	52,792	1,161,424
47. Main phase lug insulation, redCadivi BOOT-150	pc	18	8,334	150,012
48. Main phase lug insulation, blueCadivi BOOT-150	pc	18	8,334	150,012
49. Main phase lug insulation, yellowCadivi BOOT-150	pc	18	8,334	150,012

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50. Main neutral lug insulationCadivi BOOT-150	pc	18	8,334	150,012
51. Inverter phase lug insulation, redCadivi BOOT-150	pc	22	8,334	183,348
52. Inverter phase lug insulation, blueCadivi BOOT-150	pc	22	8,334	183,348
53. Inverter phase lug insulation, yellowCadivi BOOT-150	pc	22	8,334	183,348
54. PE lug insulationCadivi BOOT-95	pc	22	6,667	146,674
55. Inverter protective conductor 95 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	275	486,775	133,863,125
56. AC cable conduit — diameter and fill pendingCVL	m	88	50,050	4,404,400
57. AC conduit fittings — diameter pendingCVL	set	22	20,002	440,044
60. String labels and DC/AC warning labels	pc	372	5,002	1,860,744
61. DC/AC cable glands	pc	145	50,083	7,262,035
63. Main PE lug and insulation kitMAIN-PE-LUG-BOOT-95	pc	18	58,069	1,045,242
133. Inverter neutral conductor 150 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	275	765,004	210,376,100
134. Inverter neutral conductor lugsCU-LUG-150	pc	22	83,368	1,834,096
135. Inverter neutral lug insulationBOOT-N-150	pc	22	8,334	183,348
VI. Cable trays and access				
64. DC cable tray, reference 100 × 50 mm	m	306	218,890	66,980,340
65. DC cable tray, reference 200 × 75 mm	m	127.50	436,246	55,621,365

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66. DC cable tray, reference 400 × 75 mm	m	76.50	788,821	60,344,807
67. AC cable containment — dimensions pending cable layout	m	380	848,376	322,382,880
78. Self-drilling screws and fasteners for trays and walkways	pc	2160	1,788	3,862,080
79. Access walkway	m	360	569,572	205,045,920
81. Cable tray supports, threaded rods and purlin clamps	set	457	145,914	66,682,698
84. Walkway supports	set	241	101,999	24,581,759
85. Walkway splice connectors and joining accessories	set	149	77,673	11,573,277
144. Outstanding cable tray fitting scheduleAccessories for actual routes; detailed schedule to be confirmed.	lot	1	55,735,342	55,735,342
VII. Earthing and bonding				
143. Outstanding earthing and bonding scopeProvisional scope; earthing quantities and design require site verification.	lot	1	16,113,711	16,113,711
X. Construction and site management				
111. Mechanical installation labor	person-hour	3760	116,419	437,735,440
112. Electrical installation labor	person-hour	1145	122,618	140,397,610
113. Lifting equipment allowance — lift plan pending	shift	12	7,661,702	91,940,424
114. Transport allowance — payload and access pending	trip	4	6,287,431	25,149,724
136. Site technical supervisionQuangAnhcons	engineer-day	60	1,532,340	91,940,400

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137. Work-at-height safety supervisionQuangAnhcons	person-day	60	1,078,726	64,723,560
138. Mobilization, site facilities and demobilizationQuangAnhcons	lot	1	13,795,291	13,795,291

TOTAL BEFORE VAT	18,001,920,000
VAT assumption 10%	1,800,192,000
TOTAL WITH VAT	**19,802,112,000 VND**

Totals sum the displayed source line amounts. Unit prices may be rounded for display. No cost, discount or margin data. This document is not an approved vendor quotation or statutory VAT determination.

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