QUANGANHCONS

INDUSTRIAL SOLAR PRE-SURVEY ESTIMATE · 5 MWp

QAC-SOL-EST-20261109-E5CB71BD | 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	7813	4,267,662	33,343,243,206
2. Grid-connected string inverter125 kW AC · 400 V · 3 phase · 12 MPPT	set	34	200,062,479	6,802,124,286
3. Sungrow Logger1000A/B data logger — provisional selectionSungrow · Data acquisition and monitoring. Export control is subject to the confirmed system configuration.	set	2	21,537,598	43,075,196
4. RS485 shielded twisted-pair cable, 2 × 0.75 mm²	m	710	35,822	25,433,620
5. Communication patch cables	pc	3	95,239	285,717
139. Bidirectional power meter/transducer at PoCBidirectional power measurement for control at the connection point.	pc	1	7,148,914	7,148,914
140. PoC CT/VT metering scope — voltage and wiring pendingMetering scope; CT/VT configuration subject to the confirmed scheme.	lot	1	14,309,942	14,309,942
141. Export-control integration and response/fail-safe testingExport limitation integration and interlock testing under the confirmed design.	lot	1	10,827,612	10,827,612

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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	6,552,708	6,552,708
II. Mounting and roof attachments				
6. Roof attachments / mounting feet	set	16498	30,659	505,812,182
7. Aluminium mounting railsChiko	bar	4342	433,999	1,884,423,658
8. Rail joiner kits	set	3472	23,930	83,084,960
9. Mid-clamp kitsChiko	set	14756	14,471	213,534,076
10. End-clamp kitsChiko	set	1740	14,308	24,895,920
11. Module bonding clipsChiko	set	14756	14,471	213,534,076
12. Rail earthing terminalsChiko	set	870	29,809	25,933,830
14. DC cable clipsChiko	set	15626	2,985	46,643,610
III. DC electrical system				
17. Black DC PV cable 6 mm²Leader DC-6-BK · Single-core PV cable; 1,500 VDC; UV resistant.	m	34800	31,806	1,106,848,800
18. Red DC PV cable 6 mm²Leader DC-6-RD · Single-core PV cable; 1,500 VDC; UV resistant.	m	34800	31,806	1,106,848,800
19. Matched DC connector pairLeader · Same-manufacturer/series connectors compatible with the equipment.	pair	870	38,965	33,899,550
20. Outdoor DC cable conduitCVL	m	6960	13,405	93,298,800
21. DC conduit fittingsCVL	set	870	8,893	7,736,910
22. UV-resistant cable ties, 200 mmKST	bag	32	66,675	2,133,600

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23. UV-resistant cable ties, 300 mmKST	bag	23	66,673	1,533,479
IV. AC switchboards and protection				
26. Solar switchboard enclosure — IP, Form and dimensions pendingEnclosure; circuit breakers and busbars are itemised separately.	pc	7	24,817,855	173,724,985
27. Fabricated copper busbar assembly with supports and N/PE accessoriesCopper busbars, fabrication, supports and N/PE accessories.	assembly	7	11,008,035	77,056,245
28. Phase indication protection set	set of 3	7	133,344	933,408
29. Phase indication lamps	pc	21	50,005	1,050,105
30. AC board multifunction meter including energy measurementSelec · Operational metering at the AC board; does not replace control metering at the connection point.	pc	7	3,898,340	27,288,380
32. Metering current transformersOmega CT-1000/5A class 0.5S	pc	21	1,392,505	29,242,605
33. Auxiliary circuit protection — rating pendingOmega	pc	7	1,000,625	7,004,375
34. Switchboard temperature sensor	pc	7	555,748	3,890,236
35. Switchboard ventilation fans	pc	14	1,335,555	18,697,770
36. AC surge protection — coordination and ratings pendingHimel	set	7	3,898,340	27,288,380

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37. Main AC circuit breakerMitsubishi NF1000-SEW 3P 1000A · Icu/Ics ratings must suit the prospective fault current at the installation point.	pc	7	66,630,486	466,413,402
38. Individual inverter AC circuit breakerMitsubishi NF250-CV 3P 250A · Icu/Ics ratings must suit the prospective fault current at the installation point.	pc	34	4,206,833	143,032,322
V. AC cables and terminations				
39. Inverter AC phase cable 150 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	2550	832,728	2,123,456,400
40. Main AC cable, parallel runs per design 240 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	2940	1,506,519	4,429,165,860
41. Main protective conductor 120 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	735	635,072	466,777,920
43. Main cable copper lugs — hole size pendingCU-LUG-240	pc	168	133,555	22,437,240
44. Lug connection bolts — terminal size pendingCadivi	set	168	22,228	3,734,304
45. Inverter phase conductor lugsCU-LUG-150	pc	204	83,439	17,021,556
46. Inverter PE conductor lugsCU-LUG-95	pc	68	52,792	3,589,856
47. Main phase lug insulation, redCadivi BOOT-240	pc	42	13,334	560,028
48. Main phase lug insulation, blueCadivi BOOT-240	pc	42	13,334	560,028
49. Main phase lug insulation, yellowCadivi BOOT-240	pc	42	13,334	560,028

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DESCRIPTION / SPECIFICATION	UNIT	QTY	UNIT PRICE (VND)	AMOUNT (VND)
50. Main neutral lug insulationCadivi BOOT-240	pc	42	13,334	560,028
51. Inverter phase lug insulation, redCadivi BOOT-150	pc	68	8,334	566,712
52. Inverter phase lug insulation, blueCadivi BOOT-150	pc	68	8,334	566,712
53. Inverter phase lug insulation, yellowCadivi BOOT-150	pc	68	8,334	566,712
54. PE lug insulationCadivi BOOT-95	pc	68	6,667	453,356
55. Inverter protective conductor 95 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	850	486,827	413,802,950
56. AC cable conduit — diameter and fill pendingCVL	m	272	50,051	13,613,872
57. AC conduit fittings — diameter pendingCVL	set	68	20,002	1,360,136
60. String labels and DC/AC warning labels	pc	1210	5,002	6,052,420
61. DC/AC cable glands	pc	380	50,071	19,026,980
63. Main PE lug and insulation kitMAIN-PE-LUG-BOOT-120	pc	42	73,350	3,080,700
133. Inverter neutral conductor 150 mm²CADIVI · Cu/XLPE/PVC · 0.6/1 kV	m	850	765,128	650,358,800
134. Inverter neutral conductor lugsCU-LUG-150	pc	68	83,368	5,669,024
135. Inverter neutral lug insulationBOOT-N-150	pc	68	8,334	566,712
VI. Cable trays and access				
64. DC cable tray, reference 100 × 50 mm	m	1020	220,079	224,480,580
65. DC cable tray, reference 200 × 75 mm	m	425	438,227	186,246,475

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66. DC cable tray, reference 400 × 75 mm	m	255	792,696	202,137,480
67. AC cable containment — dimensions pending cable layout	m	1095	854,911	936,127,545
78. Self-drilling screws and fasteners for trays and walkways	pc	7200	1,789	12,880,800
79. Access walkway	m	1200	578,313	693,975,600
81. Cable tray supports, threaded rods and purlin clamps	set	1438	146,487	210,648,306
84. Walkway supports	set	801	102,205	81,866,205
85. Walkway splice connectors and joining accessories	set	499	77,751	38,797,749
144. Outstanding cable tray fitting scheduleAccessories for actual routes; detailed schedule to be confirmed.	lot	1	176,640,073	176,640,073
VII. Earthing and bonding				
143. Outstanding earthing and bonding scopeProvisional scope; earthing quantities and design require site verification.	lot	1	45,958,456	45,958,456
X. Construction and site management				
111. Mechanical installation labor	person-hour	12437	115,494	1,436,398,878
112. Electrical installation labor	person-hour	3645	122,134	445,178,430
113. Lifting equipment allowance — lift plan pending	shift	40	7,648,142	305,925,680
114. Transport allowance — payload and access pending	trip	12	6,280,863	75,370,356
136. Site technical supervisionQuangAnhcons	engineer-day	60	1,508,889	90,533,340

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137. Work-at-height safety supervisionQuangAnhcons	person-day	60	1,066,960	64,017,600
138. Mobilization, site facilities and demobilizationQuangAnhcons	lot	1	13,762,448	13,762,448

TOTAL BEFORE VAT	60,003,840,000
VAT assumption 10%	6,000,384,000
TOTAL WITH VAT	**66,004,224,000 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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