

White Paper on Solar Policy in Andhra Pradesh

December 2012-Transmission Corporation of Andhra Pradesh Limited (APTRANSCO) has released the bid documents (RfS) for the bidding of 1000 MW of Solar projects. The date of submission is 19 January 2013. The key features are :

- Minimum capacity of project – 1 MW and Maximum capacity of a project- 20 MW AC(+/- 10%) with annual reduction of 1% per year.
- Maximum Plant load factor(PLF) permissible – 20% for PV and 25% for CSP. / Minimum PLF – 16% for PV and 20% for CSP.
- PPA duration – 25 years; Procurers will be distribution licensees in the state.
- Land and clearances – Responsibility of the bidder. APTRANSCO has provided the list of 161 Sub-stations that have been identified to have the required evacuation capacity.
- Technology – PV or CSP(no particular preference)
- Number of responses to RfS per company – One
- Net worth criteria – Rs. 1 Crore/MW
- Selection process – L1 tendering process; Benchmark price not specified.
- Commissioning timeline- 6 months for PV and 13 months for CSP from the date of signing PPA or 8 months for PV and 15 months for CSP from the date of the issue of the LOI.
- Pre-bid meeting on 14/12/2012

January 2013 – After the pre-bid meeting on 14th December the final document has been improved upon based on the inputs from stake holders. The revised RFS gives more time for the developers, some of the key changes in the documents are:

- **Financial closure is now 210 and not 60 days, as previously mentioned, from the time of the issue of the LoI.**
- **The plant commissioning time is 12 months from signing of the PPA and not 6 months as originally stipulated. However, there incentives will be provided for early commissioning as indicated below:**
 - **Commissioning 9-10 months from PPA signing date: Rs 3 lakh/MW of commissioned capacity**
 - **10-11 months: Rs 2 lakhs/MW**
 - **11-12 months: Rs 1 lakh/MW**

February 2013 - Andhra Pradesh Transmission Company (APTRANSCO) announced the list of bidders who submitted their RfS for allocation of 1000 MW under the AP solar policy. Some key points are :

- **184 bidders participated in the bidding**
- **294 bids were submitted by the 184 bidders**
- **A cumulative capacity of 1339.5 MW was bid for by the various bidders**
- **As many as 51 locations had no bidders at all**
- **As many as 42 locations received only 1 bid**
- **The highest cumulative capacity bid by a single bidder was 80 MW by Alfa Infra Properties followed by Lanco Solar at 60 MW**
- **The maximum number of bids submitted by a single bidder was 8. Both Alfa Infra Properties and Lanco Solar submitted bids in 8 locations**
- **Medak, Mehabubnagar and Nalgonda districts received the most number of bids with each receiving more than 40 bids**
- **Alair, Ramannapet, Zaheerabad and Sadasivpet are the locations (132/33 KV substation node) that received the highest number of bids.**

List of Bidders :

S.No.	Company Name	S.No.	Company Name	S.No.	Company Name
1	A RAVICHANDRA SEKHARA REDDY	63	K.V.GREEN ENERGIES	125	RVK ENERGY PRIVATE LIMITED
2	AARVEE ASSOCIATES ARCHITECTS ENGINEERS & CONSULTANTS PVT LTD	64	KAKATIYA LANDSCAPES PVT LTD	126	S R CONSTRUCTIONS
3	ABACUS HOLDINGS PRIVATE LIMITED	65	KENS BUILDERS	127	S S A HATCHERIES PRIVATE LIMITED
4	ACME TELE POWER LIMITED	66	KLSEEDHARREDDY CONTRACTOR	128	S S J POWER PROJECTS AND INFRASTRUCTURES PRIVATE LIMITED
5	ADITYA HOUSING & INFRASTRUCTURE DEV. CORP. P.LTD	67	KPC PROJECTS LIMITED	129	SAI SHAKTHI INFRA TECH PRIVATE LIMITED
6	ADROITENT ITES PRIVATE LIMITED	68	KRANTHI EDIFICE PRIVATE LIMITED	130	SAMEG INFRASTRUCTURE PVT LTD
7	AJMEERA REALTY & INFRA INDIA LIMITED	69	KRK POWER PVT LTD	131	SANKARSH REDDY GADDAM
8	AKULA NARAYANA	70	KSR INFRACON PRIVATE LIMITED	132	SAR CAPITAL PRIVATE LIMITED
9	AKV LOGISTICS PVT LTD	71	LANCO SOLAR ENERGY PVT. LTD.	133	SARK PROJECTS
10	ALEX GREEN ENERGY PRIVATE LIMITED	72	M/S CORAMANDEL INFRASTRUCTURE PVT.LTD	134	SARVOTHAM CARE
11	ALFA INFRAPROP PRIVATE LIMITED	73	M/S.RAGHAVA CONSTRUCTIONS	135	SATEC ENVIR ENGINEERING INDIA PRIVATE LIMITED
12	ALLIANCE PROSYS INDIA LTD	74	MADHUCON SUGAR AND POWER INDUSTRIES LIMITED	136	SHIVA GANGA AGGREGATES
13	AMECO INFRASTRUCTURE PRIVATE LIMITED	75	MAHIRA POWER SYSTEMS PRIVATE LIMITED	137	SHIVDEEP ENERGY PRIVATE LIMITED
14	AMODA IRON AND STEEL LIMITED	76	MALVI SOFTWARE SOLUTIONS PRIVATE LIMITED	138	SHREE SURYATEJASWI ENERGIES PROJECTS PVT LTD
15	ANANTHA SAI STONE CRUSHING PRIVATE LIMITED	77	MANCHERIAL CEMENT COMPANY PRIVATE LIMITED	139	SHRI MATRE POWER AND INFRASTRUCTURE LTD
16	ANJANEYA TRADERS PVT LTD	78	MANTENA CONSTRUCTIONS PRIVATE LIMITED	140	SINGLE MALT SPIRITS INDIA PRIVATE LIMITED
17	ANNAPURNA HYDRO POWER PRIVATE LIMITED	79	MIC ELECTRONICS LIMITED	141	SMART AGRO INDUSTRIES CORPORATION PRIVATE LIMITED
18	ARHYAMA SOLAR POWER PRIVATE LIMITED	80	MILIAH & CO	142	SOKEO POWER PVT LTD
19	ARTHA CONSTRUCTIONS PVT.LTD.	81	MS. P.M.R. INFRASTRUCTURES PRIVATE LIMITED	143	SOMA SURYA GREEN ENERGIES
20	ARUNODAYA POWER PROJECTS PVT LTD	82	MVPR INFRASTRUCTURE LIMITED	144	SONALI ENERGEEES PRIVATE LIMITED
21	ASTONFIELD RENEWABLES PRIVATE LIMITED	83	NATSOFT CORPORATION	145	SOUTHWEST HYDRO POWER PVT LTD
22	ASTONFIELD SOLAR PRIVATE LIMITED	84	NATURE LIGHT SOLAR POWER PRIVATE LIMITED	146	SPARROW ENERGY PRIVATE LIMITED
23	ASTONFIELD SOLAR RAJASTHAN II PRIVATE LIMITED	85	NCL ALLTEK & SECCOLOR LIMITED	147	SPIN COT TEXTILES PRIVATE LIMITED
24	ATHA ENERGY AND INFRASTRUCTURE PRIVATE LIMITED	86	NCS SUGARS LIMITED	148	SPINMET ENGINEERS PRIVATE LIMITED
25	AZTOM ENERGY AUSTRALIA PTY LTD	87	NEKKANTI SEA FOODS LTD	149	SRI MAHALAKSHMI COLO STORAGES
26	AZURE GREEN TECH PRIVATE LIMITED	88	NEW ERA ENVIRO VENTURES PRIVATE LIMITED	150	SRI RAMCHARAN POWER PROJECTS
27	BAPPCO POWER PRIVATE LIMITED	89	NITHYASAI INDUSTRIES LIMITED	151	SRI SANJEEV BANDARU
28	BKP MINING CORPORATION LIMITED	90	NSL RENEWABLE POWER PRIVATE LIMITED	152	SRI SURYANARAYANA SWAMY SOLAR POWER PRIVATE LTD
29	BRC INFRA PRIVATE LIMITED	91	NUTAN NIRMAN PRIVATE LIMITED	153	SRIKARA SHELTERS AND INFRA TECH PRIVATE LIMITED
30	BRILLIANT BIO PHARMA LIMITED	92	OBERON IT INC	154	SRIKIVASA CYSTINE PRIVATE LIMITED
31	CAPITAL FORTUNES PVT LTD	93	OMCON INFRASTRUCTURE PRIVATE LIMITED	155	SRVS INDUSTRIES
32	CH VEERARAGHAVULU CONSTRUCTION PRIVATE LIMITED	94	OMICRON BIOGENESIS LIMITED	156	STARLITE GLOBAL ENTERPRISES INDIA LIMITED
33	CHERISH SOLAR PRIVATE LIMITED	95	ORIPRO LIMITED	157	SUJAY POWER PVT LTD
34	CITAND TECHNOLOGIES PVT LTD	96	ORISSA POWER CONSORTIUM LIMITED	158	SULOCHANA AGRO & INFRA TECH PRIVATE LIMITED
35	COASTAL CORPORATION LIMITED	97	PADMALAYA ISPAT AND MINES PRIVATE LIMITED	159	SUN RAYS ENERGY LTD
36	DARTYENS POWER PRIVATE LIMITED	98	PANDORA R&D LABS PRIVATE LIMITED	160	SUNBORNE ENERGY SERVICES INDIA PRIVATE LIMITED
37	DAYTON ENERGY LIMITED	99	PARVATHI PROJECTS PRIVATE LIMITED	161	SUNVOLT ENERGY PRIVATE LIMITED
38	DETROIT SOLAR ENERGY PRIVATE LIMITED	100	PCS PREMIER ENERGY PRIVATE LIMITED	162	SUPRAJA DAIRY PVT LTD
39	DEVI SEAFOODS LIMITED	101	PENMAR INDUSTRIES LTD	163	SURABHI SOLAR POWER PRIVATE LIMITED
40	ENERPARC AG	102	PERENNIAL SOLAR PRIVATE LIMITED	164	SURAKSHA POWER PROJECTS PRIVATE LIMITED
41	ESSEL MINING AND INDUSTRIES LTD.	103	PHOTON ENERGY SYSTEMS LIMITED	165	SURANA VENTURES LIMITED
42	FOCAL ENERGY WIND INDIA PRIVATE LIMITED	104	PINAKINE POWER PROJECTS PRIVATE LIMITED	166	SURYA GREEN POWER PRIVATE LIMITED
43	G R T SILVER WARES	105	PLR PROJECTS PRIVATE LIMITED	167	SWISS PARK VANIJYA PRIVATE LIMITED
44	G.R. THANGA MALIGAI JEWELLERS P LTD	106	POLSONI ENERGIES PRIVATE LIMITED	168	SYMED LABS LIMITED
45	GRIDHARI EXPLOSIVES PRIVATE LIMITED	107	POULOMI ESTATES PRIVATE LIMITED	169	SYNTHO CHIRALS PRIVATE LIMITED
46	GKC PROJECTS LIMITED	108	POULOMI INFRA PRIVATE LIMITED	170	TESLA PROJECTS PRIVATE LIMITED
47	GOWRI GOPAL HOSPITALS PRIVATE LIMITED	109	PREMIER SOLAR POWERTech PRIVATE LIMITED	171	UNIQUE AESTHETICS PRIVATE LIMITED
48	GREENWAY INFRA TECH INDIA PRIVATE LIMITED	110	PREMIER SOLAR SYSTEMS PRIVATE LIMITED	172	USHAS VENTURES PVT LTD
49	GUNA PROJECTS AND ESTATES PRIVATE LIMITED	111	PVKENGINEERS	173	UTL
50	GVPR ENGINEERS LIMITED	112	R K DISTILLERIES PRIVATE LIMITED	174	V M COAL LOGIX PRIVATE LIMITED
51	HALO ENERGIE PVT LTD	113	R.NARAYANA REDDY & SONS CONSTRUCTIONS PVT. LTD.	175	VAINAVI INDUSTRIES LIMITED
52	HASKAN ENTERPRISES	114	RAAGA MAYURI BUILDERS PRIVATE LIMITED	176	VALLABHA ENERGIES PRIVATE LIMITED
53	HETERO DRUGS LIMITED	115	RAHEEM INFRA TECH PVT LTD	177	VARP POWER PRIVATE LIMITED
54	HETERO LABS LIMITED	116	RANKY ENVIRO ENGINEERS LTD	178	VENKATA REDDY KARRI
55	HETERO WIND POWER LIMITED	117	RAMSWAROOP REDDY GADDAM	179	VISHNU VIDYUTH INDIA LIMITED
56	INDWELL CONSTRUCTIONS PVT LTD	118	RCM INFRASTRUCTURE LTD	180	VIJAYANANDA SOLAR POWER
57	INNOVATIVE WATER PROJECTS	119	RECON TECHNOLOGIES PRIVATE LIMITED	181	VIYOMAA ENERGY PRIVATE LIMITED
58	JAYA BHARAT EQUIPMENTS PVT LTD	120	REDDYS CONTRACTORS	182	WAAREE ENERGIES PVT LTD
59	JUPITERAGROPRODUCTS PVT. LTD	121	REFEX ENERGY LTD .	183	WELSPUN ENERGY ORISSA PRIVATE LIMITED
60	JWALANTH INFRA PRIVATE LIMITED	122	R/S TECHN VISION ENGINEERING PRIVATE LIMITED	184	YASHODA ENERGY PRIVATE LIMITED
61	K K RAO ENGG WORKS PVT LTD	123	ROHA DYE/CHEM PRIVATE LIMITED		
62	K.V. INFRRRA PVT LTD	124	RR DURAFABS PVT LTD.		

March 2013 - The financial bids for project allocation under the Andhra Pradesh Solar Policy were opened. Key updates are :

- **Lowest Price Bid – Rs.6.49/Kwh by Sunborne Energy for K.Mallepally Substation**
- **Highest Price Bid – Rs.15.9999/Kwh by Ram Swaroop Reddy Gaddam for Dharmasagar substation (Location No.116) and by Sankarsh Reddy Gaddam for Alair substation (Location No.84) and Ellantakunta substation (Location No.128).**
- The average of the price bids of all the 330 bids is Rs.8.7077/Kwh which, interestingly, is very close to CERC levelised tariff of Rs.8.75/Kwh (without AD) for 2013-14.

Out of the total 330 bids (from technically qualified bidders), price bids of 152 bids are in the range of Rs.8 – Rs.9 /Kwh. Here are the details of the number of bids falling in various price bid ranges:

- Less than or equal to Rs.7/Kwh – 13 bids
- Greater than Rs.7/Kwh but less than or equal to Rs.8/Kwh – 75 bids
- Greater than Rs.8/Kwh but less than or equal to Rs.9/Kwh – 152 bids
- Greater than Rs.9/Kwh but less than or equal to Rs.10/Kwh – 50 bids
- Greater than Rs.10/Kwh – 35 bids
- Bid price not available – 5 bids

3 companies – ACME Tele Power, Tesla Projects and NCS Sugars, submitted hard copy of bids (instead of online submission), with an order of AP High court. These 3 companies combined put in 37 bids and were the lowest bids for 27 locations.

ACME Tele Power Ltd.		
Location No.	Location	Price Bid
20	Cumbum	8.0800
21	Kanigiri	8.3500
23	Peddadornala	8.0800
29	Madanapalli	7.6100
30	Pakala	8.3200
33	Kothapallimitta	8.0500
34	Burakayalakota	7.4899
73	Habsipur	7.6100
101	Ashwaraopet	8.3500
103	Penubailly	8.3200
106	Gangaram	8.5000
107	Yellandu	8.0800
108	Nekkonda	8.1900
111	Waradannapet	8.0800
113	Madikonda	8.0800
114	Ghanpur	8.1800
116	Dharmasagar	8.0800
117	Narsampet	8.3200
124	Husnabad	8.2000
126	Huzurabad	7.9999
127	Mallaram	7.9999
134	Shanigarm	7.9999
141	Renjal	7.6100
143	Nandipet	7.6100
151	C.H.Kondur	7.9999
Total Bid Capacity		170 MW

NCS Sugars Ltd.			
Location No.	Location	Bid Capacity	Price Bid
41	Kadiri	5	7.4999
61	Sadasivpet	15	7.7949
82	Vikarabad	15	7.7949
Total Bid Capacity		35 MW	

Tesla Projects Pvt. Ltd.			
Location No.	Location	Bid Capacity	Price Bid
73	Habsipur	10	8.1900
75	Pedda Shankampeta	10	8.2800
76	Minpur	10	8.1900
88	Ramannapet	10	8.1000
90	Shaligouraram	15	8.1900
109	Mustyal	10	8.1900
111	Waradannapet	10	8.3700
112	Ayyagaripally	10	8.2800
121	Korutla	10	8.3700
Total Bid Capacity		95 MW	