അനെർട്ട് നടപ്പിലാക്കുന്ന പദ്ധതികളിൽ ശ്രീ രമേശ് ചെന്നിത്തല MLA ഉന്നയിച്ച ചോദ്യങ്ങളിന്മേൽ അനെർട്ടിന്റെ വിശദീകരണം

PM KUSUM പദ്ധതിയുടെ നടത്തിപ്പ്, അനെർട്ടിലെ നിയമനങ്ങൾ, കൺസൾട്ടൻസി സേവനങ്ങൾ എന്നിവയെക്കുറിച്ച് ബഹുമാനപ്പെട്ട MLA ശ്രീ രമേശ് ചെന്നിത്തല ഉന്നയിച്ച ആരോപണങ്ങൾ വസ്തുതാവിരുദ്ധമാണ്. അനെർട്ട് PM KUSUM Component C (വ്യക്തിഗത പമ്പ് സോളറൈസേഷൻ) നടപ്പിലാക്കുവാൻ ക്ഷണിച്ച ടെണ്ടർ, കേരള ഗ്രീൻ ഹൈഡ്രജൻ മിഷനു വേണ്ടി കൺസൾട്ടന്റുമാരെ നിയോഗിച്ചതിലുമാണ് പ്രധാന ആരോപണങ്ങൾ.

ബഹു. രമേശ് ചെന്നിത്തല ഉന്നയിച്ച 9 ചോദ്യങ്ങളിന്മേലുള്ള അനെർട്ടിന്റെ പ്രതികരണം.

1. ***അഞ്ചു കോടി രൂപ വരെ മാത്രം ടെൻഡർ വിളിക്കാൻ അർഹതയുള്ള അനെർട്ട് സിഇഒ 240 കോടി രൂപയുടെ ടെൻഡർ വിളിച്ചത് മന്ത്രി അറിഞ്ഞിരുന്നോ..? ഇതിന് മന്ത്രിയുടെയോ വകുപ്പിന്റെയോ പ്രത്യേകാനുമതി വാങ്ങിയിരുന്നോ..? ഇല്ലെങ്കിൽ എന്തുകൊണ്ട് നടപടിയെടുത്തില്ല.?***

സോളാർ പ്ലാന്റ് നിർമ്മാണത്തിനായി എസ്റ്റിമേറ്റ് തയ്യാറാക്കി അതിന്മേൽ ടെണ്ടർ നടത്തുവാനുള്ള പരിധി സി ഇ ഒ അനെർട്ടിന് നിശ്ചയിച്ചിട്ടുള്ളത് നിലവിൽ 25 കോടി രൂപയാണ്. കേന്ദ്ര നവ നവീന ഊർജ്ജ മന്ത്രാലയം പി എം കുസും പദ്ധതി നടപ്പിലാക്കുവാനുള്ള മാർഗ്ഗനിർദ്ദേശങ്ങളിൽ പറയുന്ന എംപാനൽമെന്റ് / റേറ്റ് നിർണ്ണയ പ്രക്രിയയാണ് മാത്രമാണ് അനെർട്ട് നടത്തിയത്. ഇതിൽ ഓരോ കിലോവാട്ട് ശേഷിയുള്ള പ്ലാന്റ് സ്ഥാപിക്കുന്നതിന് ചെലവാകുന്ന കുറഞ്ഞ തുക കണ്ടെത്തുക മാത്രമാണ് ചെയ്തിട്ടുള്ളത്. ഇത്തരത്തിൽ നടത്തിയ തുക നിർണ്ണയ പ്രക്രിയയിൽ ഏറ്റവും ഉയർന്ന പ്ലാന്റ് ശേഷിയായ 150 കിലോവാട്ടിന് പോലും 1 കോടി രൂപ മാത്രമാണ് മതിപ്പ് ചെലവ്. അപ്പോൾ 240 കോടി രൂപയുടെ ഒരു പ്രവർത്തിക്കുള്ള ടെണ്ടർ ക്ഷണിച്ചു എന്ന് പറയുന്നതിന് അടിസ്ഥാനമില്ല. മുൻകാലങ്ങളിൽ എല്ലാം തന്നെ കേന്ദ്ര പദ്ധതികൾ നടപ്പിലാക്കിയ മാതൃകയിൽ തന്നെയാണ് പദ്ധതിയുടെ നോഡൽ ഏജൻസിയായ അനെർട്ട് ഈ പദ്ധതിയുടെയും നടത്തിപ്പിനുള്ള എംപാനെൽമെൻറ് പ്രക്രിയ നടത്തിയത്.

കഴിഞ്ഞ 32 വർഷമായി അനെർട്ട് MNRE പദ്ധതികൾ നേരിട്ട് നടപ്പിലാക്കുന്നുണ്ട്. 10,000 റൂഫ്ടോപ്പ് പദ്ധതിക്കുള്ള എംപാനൽമെന്റ് നടപടിയും സമാനമായ രീതിയിലാണ് നടത്തിയത്. കൂടാതെ, കെഎസ്ഇബിഎൽ സൗര പദ്ധതിക്കായി (എംഎൻആർഇയുടെ റൂഫ്ടോപ്പ് സോളാർ ഫേസ് – II) ചെയ്ത നിരക്ക് നിശ്ചയിക്കൽ / എംപാനൽമെന്റ് നടപടിയും സമാനമായ രീതിയിലാണ് നടപ്പിലാക്കിയത്. ഈ കാലയളവിലെ കൺട്രോളർ ആന്റ് ഓഡിറ്റർ ജനറൽ ഓഫ് ഇന്ത്യയുടെ ഓഡിറ്റ് പൂർത്തിയാക്കുകയും, അനെർട്ട് നടത്തിയ എംപാനൽമെന്റ് പ്രക്രിയയിൽ എന്തെങ്കിലും തെറ്റ് കണ്ടെത്തുകയോ ചെയ്തിട്ടില്ല.

ഒരു എംപാനൽമെന്റ് / റേറ്റ് നിർണ്ണയത്തിനുള്ള ടെണ്ടർ ക്ഷണിക്കുകയും, തുടർന്ന് പങ്കെടുത്തതിൽ യോഗ്യതയുള്ള എല്ലാ ഏജൻസികൾക്കും പ്രക്രിയയിൽ നിർണ്ണയിച്ച കുറഞ്ഞ തുകയിലേക്ക് എത്തുവാൻ ആവശ്യപ്പെടുകയും, അവരെയും ഉൾപ്പെടുത്തിയാണ് നിർവ്വഹണ ഏജൻസികളെ തിരഞ്ഞെടുത്തത്. ഇങ്ങനെ നിശ്ചയിച്ച നിരക്ക് ആണ് നബാർഡിനുള്ള പ്രൊപോസലിൽ നൽകുകയും, തുടർന്ന് സർക്കാർ പദ്ധതിക്ക് അംഗീകാരം നൽക്കുകയും ചെയ്തത്. ഈ നടപടിക്രമങ്ങൾ എല്ലാം അനെർട്ട് CEO യുടെ പരിധിക്കുള്ളിലാണ്.

2. ***240 കോടി രൂപയുടെ ആദ്യത്തെ ടെൻഡർ റദ്ദാക്കിയ വിവരം വകുപ്പിനെ അറിയിച്ചിരുന്നോ..? ആദ്യത്തെ ബിഡ്ഡിങ്ങിൽ ഏറ്റവും കുറഞ്ഞ നിരക്ക് രേഖപ്പെടുത്തി സെലക്ട് ചെയ്യപ്പെട്ട കമ്പനി പിൻമാറുന്നുവെന്ന കാണിച്ച് മെയിൽ അയച്ചുവെന്നാണ് സിഇഒ പറയുന്നത്. ഈ മെയിൽ വകുപ്പിന് സമർപ്പിച്ചിട്ടുണ്ടോ?***

ആദ്യ ബിഡിങ്ങിൽ ഏറ്റവും കുറഞ്ഞ തുക രേഖപ്പെടുത്തിയത് എന്ന് പ്രസ്താവിച്ചിരിക്കുന്ന കമ്പനി നൽകിയ നിരക്കിനെ സംബന്ധിച്ച് വ്യക്തത ഉണ്ടായിരുന്നില്ല. തുടർന്ൻ അവർ നൽകിയ വിശദീകരണത്തിൽ ഡോകുമെന്റിൽ നൽകുവാൻ നിഷ്കർഷിച്ചിരുന്ന ഓരോ പ്ലാന്റ് ശേഷിക്കും ചെലവാകുന്ന മുഴുവൻ തുകയ്ക്ക് വിഭിന്നമായി **പ്രതി kW നിരക്ക്** തെറ്റായി നൽകുകയാണ് ചെയ്തത് എന്നറിയിച്ചു. അവർ നൽകിയത് തെറ്റായിട്ടാനെന്നും അവരുടെ ബിഡുകൾ പരിഗണിക്കേണ്ടതില്ല എന്നും, പദ്ധതിയിൽ നിന്നും പിന്മാറാൻ അനുവാദിക്കണം എന്ന അപേക്ഷിച്ചതിനാലാണ് അവരെ ഒഴിവാക്കിയത്. പിന്നീട്, എംപാനൽമെന്റിൽ പങ്കെടുത്ത കമ്പനികളുടെ യോഗ ശേഷം നിരക്ക് കുറയ്ക്കാൻ സാധിക്കില്ല എന്ൻ അറിയിച്ചതിനെ തുടർന്ൻ റീ ടെണ്ടർ നടപടികളിലേക്ക് കടക്കുകയാണ് ചെയ്തത്. ഇത്തരത്തിൽ ഒരു പദ്ധതിയുടെ ടെണ്ടറുമായി നടത്തുന്ന പ്രവർത്തികൾ ഒന്നും തന്നെ സർക്കാരിനെ അറിയിക്കേണ്ടതില്ല.

3. ***ഗ്രേഡിങ് റേറ്റ് അനുസരിച്ചാണ് കമ്പനികൾക്ക് അനുവദിക്കുന്ന ഓരോ പവർ പ്ളാന്റിന്റെയും പരമാവധി ശേഷി നിശ്ചയിക്കുന്നത് എന്നായിരുന്നു ടെൻഡർ വ്യവസ്ഥ. എന്നാൽ ഈ വ്യവസ്ഥ ലംഘിച്ച് എല്ലാ കമ്പനികൾക്കും എല്ലാ ശേഷിയിലുമുള്ള പവർ പ്ളാന്റുകൾ സ്ഥാപിക്കാൻ ഓർഡർ നൽകിയത് ആരുടെ നിർദേശപ്രകാരമായിരുന്നു?***

ഗ്രേഡിംഗ് അനുസരിച്ച് എംപാനൽ ചെയ്ത എല്ലാ കമ്പനികൾക്കും ഈ പദ്ധതിയിൽ സ്ഥാപിക്കുവാൻ നിശ്ചയിച്ചിരിക്കുന്ന എല്ലാ ശേഷിയിലുമുള്ള പവർ പ്ലാന്റുകൾ സ്ഥാപിക്കുന്നതിനുള്ള ക്വാളിഫിക്കേഷൻ ഉണ്ട്. ഈ എംപാനൽമെന്റ് പ്രക്രിയയിൽ നടപ്പാക്കിയ ഗ്രേഡിങ് പ്രകാരം ഒരു ഏജൻസിക്ക് ഒരു തവണ അനുവദിക്കാവുന്ന പരമാവധിയായി പ്ലാന്റുകളുടെ സഞ്ചിത ശേഷിയാണ് (Cumulative Capacity) സൂചിപ്പിച്ചിരുന്നത്, അല്ലാതെ ഒരു പ്ലാന്റ് ചെയ്യുന്നതിലുള്ള പരമാവധി ശേഷിയല്ല. അതിനാൽ തന്നെ, എംപാനൽമെൻ്റ് വ്യവസ്ഥകൾ നടപ്പിലാക്കുക മാത്രമാണ് ചെയ്തത്, ഇതിനായി പ്രത്യേക നിർദ്ദേശം ഒന്നും ആരും നൽകേണ്ടതായി ഇല്ല.

ഈ പദ്ധതിയിൽ നാളിതുവരെ 130 വർക്ക് ഓർഡറുകൾ നൽകി, ഒരു വർക്ക് ഓർഡറിന് നൽകിയ പരമാവധി തുക 4.39 കോടി രൂപയാണ്. എല്ലാ വർക്ക് ഓർഡറുകളും റേറ്റിംഗ് പ്രകാരമുള്ള പരിധിക്കുള്ളിലാണ് നൽകിയിട്ടുള്ളത്.

4. ***ടെൻഡറിൽ സമർപ്പിച്ച തുകയേക്കാൾ കൂടുതൽ തുകയ്ക്ക് പല കമ്പനികൾക്കും ഓർഡർ നൽകിയിട്ടുണ്ട്. ടെണ്ടർ ഓപ്പൺ ചെയ്ത ശേഷം തിരുത്തിയിട്ടുമുണ്ട് ടെണ്ടർ വ്യവസ്ഥകൾ പാലിക്കാത്തവർക്കും ഓർഡർ നൽകിയിട്ടുണ്ട്. . ഇത് ടെൻഡർ വ്യവസ്ഥകളുടെ നഗ്നമായ ലംഘനം അല്ലേ...?***

അനെർട്ട് ഈ പദ്ധതിക്കുള്ള എംപാനൽമെന്റെ / റേറ്റ് നിർണ്ണയ പ്രക്രിയ ടെൻഡർ ക്ഷണിച്ചത് സർക്കാരിന്റെ ഇ ടെണ്ടർ പോർട്ടൽ ആയ കേരള ടെണ്ടർസ് - *www.etender.kerala.gov.in* എന്ന പോർട്ടൽ മുഖേനെയാണ്. കമ്പനികൾ സമർപ്പിച്ച ബിഡുകൾ പോർട്ടലിൽ ഇപ്പോഴും ലഭ്യമാണ്, അത് ആർക്കു വേണമെങ്കിലും പരിശോധിക്കാം. അനെർട്ട് നടത്തിയ എംപാനൽമെന്റെ/ റേറ്റ് കരാർ പ്രക്രിയയിൽ 1A, 1B, 1C, 2A, 2B എന്നിവയല്ലാത്ത ഗ്രേഡുകൾ ലഭിക്കുന്ന ബിഡ്ഡർമാർ നൽകുന്ന നിരക്കുകൾ പരിഗണിക്കില്ല

എന്നും എന്നാൽ, പങ്കെടുത്ത എല്ലാവരെയും നിർവഹണത്തിന് പങ്കാളികൾ ആകുവാനുള്ള അവസരം നൽകുമെന്ന് എംപാനൽമെന്റ് ഡോകുമെന്റിൽ കൃത്യമായി രേഖപെടുതിയുരുന്നു.

ഇങ്ങനെ ഈ പദ്ധതിക്കായി ഇ-ടെണ്ടർ പോർട്ടലിൽ സമർപ്പിച്ച ഒരു ഡോക്യുമെന്റും ആരും തിരുത്തിയിട്ടില്ല. ഇങ്ങനെ തിരുത്തിയിരുന്നുയെങ്കിൽ, അതാണ് ടെൻഡറിന്റെ ലംഘനം. ടെൻഡർ ഉറന്ന ശേഷം അനെർട്ട് തയ്യാറാക്കിയ പ്രൈസ് സമ്മറിയിൽ ഉണ്ടായ *Clerical Error* കണ്ടെത്തിയ മുറയ്ക്ക് പരിശോധിച്ച ബോധ്യപ്പെട്ടതിന്റെ അടിസ്ഥാനതിൽ പ്രൈസ് സമ്മറി പരിഷ്കരിക്കുക മാത്രമാണ് ചെയ്തിട്ടുള്ളത്. ഇതെല്ലാം, ഈ പദ്ധതിയുടെ ഇ ഫയലിൽ കൃത്യമായി രേഖപ്പെടുത്തിയിട്ടുമുണ്ട്. മേൽ പറഞ്ഞ പ്രവർത്തികൾ എല്ലാം തന്നെ ടെണ്ടർ നിർണ്ണയ വേളയിൽ സംഭവിച്ച കാര്യങ്ങളാണ്. ഇത്, ഫയലിൽ തന്നെ രേഖപ്പെടുത്തിയിട്ടുമുണ്ട്. ടെണ്ടർ ഉറന്ന ശേഷം നിരക്കുകളിൽ യാതൊരുവിധ മാറ്റവും വരുത്താൻ ഒരു ഏജൻസിയെയും അനുവദിച്ചിട്ടില്ല.

5. സംസ്ഥാനത്ത് സോളാർ പ്ലാന്റുകൾക്ക് അടിസ്ഥാന വില നിശ്ചയിക്കുന്നതിന് 2021 ൽ അനർട്ട് എക്സികൂട്ടിവ് കമ്മിറ്റി എടുത്ത തീരുമാനം ഇതുവരെ നടപ്പാക്കാത്തത് എന്തു കൊണ്ട്?

MNRE തങ്ങളുടെ പദ്ധതികൾക്ക് നൽക്കുന്ന സബ്സിഡി കണക്കാക്കുന്നതിനായി തയ്യാറാക്കുന്ന ബെഞ്ച് മാർക്ക് നിരക്ക്, രാജ്യത്തെ സോളാർ പവർ പ്ലന്റുകൾക്കുള്ള റഫറൻസ് എസ്റ്റിമേറ്റായി തെറ്റായി വ്യാഖ്യാനിക്കപ്പെട്ടു വരുന്നു. മാത്രമല്ല, MNRE ഓരോ സാമ്പത്തിക വർഷത്തിലും വളരെ വൈകി മാത്രമാണ് ഇത്തരം ബെഞ്ച് മാർക്ക് നിരക്ക് പ്രസീധീകരിചിരുന്നത്. മേൽ തെറ്റിദ്ധാരണ മാറ്റുക എന്ന ലക്ഷ്യത്തോടെയാണ് സംസ്ഥാനത്ത് നടക്കുന്ന ഇൻസ്റ്റാളേഷനുകൾക്ക് ഒരു കുറഞ്ഞ ചെലവ് രൂപീകരിക്കുക എന്ന ലക്ഷ്യത്തോടെ ANERT, കേരളത്തിന് മാത്രമായി ഒരു ബെഞ്ച്മാർക്ക് നിരക്കിനെ പറ്റി പഠിക്കാൻ ഒരു കമ്മിറ്റി രൂപീകരിച്ചത്.

അനെർട്ടിന്റെ എക്സികൂട്ടീവ് കമ്മിറ്റിയുടെ അംഗീകാരത്തോടെ 12/8/21 തീയതിയിലെ AO നമ്പർ 68/2021/ANERT പ്രകാരം ഒരു കമ്മിറ്റി രൂപീകരിച്ചു. എന്നാൽ, MNRE, 2022 ജൂലൈയിൽ നാഷണൽ പോർട്ടൽ ഫോർ റൂഫ്ടോപ്പ് സോളാർ ആരംഭിക്കുകയും ഉടർന്ന് നിശ്ചിത CFA മോഡലിലേക്ക് നീങ്ങുകയും ചെയ്തു. പ്രസ്തുത പോർട്ടലാണ് 2024 മാർച്ച് മുതൽ PM സൂര്യ ഘർ പോർട്ടലായി പ്രവർത്തിക്കുന്നത് .

സോളാർ റൂഫ്ടോപ്പ് പദ്ധതികളുടെ നടത്തിപ്പ് രീതിയിൽ ഇങ്ങനെ ഒരു മാറ്റം സംഭവിക്കുകയും, നിശ്ചിത CFA കണക്കാക്കുമ്പോൾ മാത്രം പ്രസക്തമായ ബെഞ്ച് മാർക്ക് നിരക്ക് തന്നെ ഇല്ലാതെ ആയ സാഹചര്യത്തിൽ സംസ്ഥാനത്തിന് ഒരു ബെഞ്ച് മാർക്ക് ഉക എന്ന ആശയം കാലഹരണപ്പെട്ടു. പ്രസക്തി നഷ്ടപ്പെട്ട ഈ കമ്മിറ്റി കൂടുതൽ യോഗം ചേരുകയോ നിരക്കുകൾ അന്തിമമാക്കുകയോ ചെയ്തിട്ടില്ല. സോളാർ സബ്സിഡിയായി സംസ്ഥാന സർക്കാർ സബ്സിഡി ഒന്നും നിലവിൽ പ്രതേകം നൽകുന്നില്ല. ചില പദ്ധതികളിൽ കേന്ദ്രം എത്രയാണോ നിർദ്ദേശിക്കുന്നത് അതെ ഉക തന്നെ സംസ്ഥാനവും ഷെയർ ആയി കണക്കാക്കുന്നത്.

6. കേന്ദ്രസർക്കാരിൽ നിന്ന് ഈ പദ്ധതിക്ക് സബ്സിഡി അഡ്വാൻസ് ഇനത്തിൽ കിട്ടിയ പണത്തിൽ നിന്ന് എത്ര രൂപ ചെലവഴിച്ചു? എത്ര ഉക കേന്ദ്രസർക്കാർ തിരികെ വാങ്ങി..? എന്തു കൊണ്ടാണ് കിട്ടിയ പൈസ ചെലവഴിക്കാൻ കഴിയാതിരുന്നത്...?

പിഎം കുസും പദ്ധതി *2026* മാർച്ച് വരെ കാലാവധിയുള്ള ഒരു പദ്ധതിയാണ്. *2023* ഇൽ പദ്ധതിയുടെ നടത്തിപ്പ് ആരംഭിക്കുമ്പോൾ *CFA* അഡ്വാൻസ് ആയി *23.4* കോടി രൂപ കേന്ദ്രം

അനുവദിച്ചിരുന്നു. ഇതിൽ, ആ സാമ്പത്തിക വർഷം *3.2* കോടി രൂപ ചെലവാക്കുകയും, ബാക്കി തുക തിരികെ എടുക്കുകയും ചെയ്തു. ഒരു സാമ്പത്തിക വർഷം അനുവദിച്ച തുക മാർച്ച് അവസാനം തിരികെ എടുക്കുക എന്നത് ഒരു സാധാരണ നടപടിക്രമം മാത്രമാണ്. എന്നാൽ, അടുത്ത സാമ്പത്തിക വർഷം *1.64* കോടി രൂപ *CFA* അഡ്വാൻസ് ഇനത്തിൽ ലഭിക്കുകയും, അത് പൂർണ്ണമായും ചെലവാക്കുകയും ചെയ്തു. മെയ് *2025* ഇൽ ബാക്കി മുഴുവൻ തുകയും അഡ്വാൻസ് *CFA* ആയി (*18 .98* കോടി രൂപ) കേന്ദ്രം നൽകിയിട്ടുണ്ട്. ഇതിന്റെ പട്ടിക ചുവടെ ചേർക്കുന്നു:

വർഷം | തീയതി	CFA Advance (Rs in Crores)	Expenditure (Rs in Crores)	Remarks
29/8/2023	23.4	3.2	Fund reversed in March 2023
24/03/2025	1.64	1.64	
08/05/2025	18.98		In utilisation

7. ടെൻഡറിൽ കമ്പനികൾ രേഖപ്പെടുത്തിയ നിരക്കുകൾ കുറയ്ക്കാൻ വേണ്ടി സ്വീകരിച്ച നടപടികൾ എന്തെല്ലാമായിരുന്നു. ഓരോയിനത്തിലും എത്ര വീതം തുക കുറവ് വരുത്താൻ സാധിച്ചു. വിശദാംശങ്ങൾ പുറത്തു വിടാമോ... ?

അനെർട്ട് ഈ പദ്ധതിക്കായി ക്ഷണിച്ച ആദ്യ ടെണ്ടർ ക്യാൻസൽ ചെയ്യുവാൻ തന്നെ കാരണം എംപാനൽമെന്റ് പ്രക്രിയയിൽ ലഭിച്ച ഉയർന്ന നിരക്കാണ്. പിന്നീട് നടന്ന റീ-ടെണ്ടറിൽ L1 ബിഡ്ഡർ ആയ M/s Tata Power Solar Systems Ltd തുക Negotiation ആയി ക്ഷണിച്ചിരുന്നു. പുരപ്പുറ സോളാറിനെ അപേക്ഷിച്ച കൃഷിയിടത്തിൽ പമ്പ് സൗരോജ്വലിപ്പിക്കുന്നതിന്റെ വെല്ലുവിളികളെകുറിച്ച അവർ അറിയിക്കുകയും, പി എം കുസും പദ്ധതിയിലെ ആദ്യ പൈലറ്റ് ഘട്ടത്തിൽ പങ്കെടുത്തതു 50 ലധികം പ്രൊജക്ട്സ് ചെയ്തതിന്റെ പ്രവർത്തിപരിചയത്തിന്റെ അടിസ്ഥാനത്തിലായിരുന്നു അവർ ഈ വാദം ഉന്നയിച്ചത്. ഇടയ്ക്കിടെ ഉണ്ടാകുന്ന സോളാർ DCR പാനെലിന്റെയും മറ്റു സാമഗ്രികളുടെയും വിലക്കയറ്റം, സംസ്ഥാനത്തെ ഉയർന്ന transportation ചാർജ്ജുകൾ, ഹാൻഡ്ലിംഗ് ആൻഡ് ലേബർ ചാർജ്ജുകൾ, 7 വർഷ വാറന്റി കാലാവധി, മെന്റെനൻസ്, ഇൻഷുറൻസ്, ഉയർന്ന തോതിലുള്ള overhead കേബിൾ, പോസ്റ്റ് മുതലയവുടെ തുകയും, സൈറ്റുകൾ കണ്ടെത്തുവാൻ വേണ്ട feasibility സ്റ്റഡി വേണ്ടിയുള്ള ചെലവ് എന്നിവ എല്ലാം തുക ഉയരുവാനുള്ള കാരണങ്ങൾ കാരണം തുക കുറയ്ക്കുവാൻ സാധിക്കില്ല എന്നും അറിയിച്ചു. ആദ്യ ടെണ്ടറിലും റീ-ടെണ്ടറിലും ലഭിച്ചത് ഏകദേശം സമാനമായ നിരക്കുകളാണ് എന്നതിനാൽ അവർ നൽകിയ തുക L1 ആയി നിശ്ചയിക്കുകയായിരുന്നു. ഇങ്ങനെ നിശ്ചയിച്ച നിരക്ക്, മറ്റ് കമ്പനികൾക്ക് ആ നിരക്ക് സ്വീകരിക്കുവാൻ അവസരം നൽകുകയും, സന്നദ്ധരായ എല്ലാവർക്കും emapanelment ലിസ്റ്റിൽ ഉൾപ്പെടുത്തുകയും ചെയ്തു.

8. അനർട്ടിൽ ഇ ടെണ്ടർ ക്രിയേറ്റർ, ഓപ്പണർ ചുമതലകൾ ഉണ്ടായിരിക്കെ രാജിവെച്ച് EY യിൽ ചേർന്ന താൽക്കാലിക ജീവനക്കാരനെ ടെൻഡറുകൾ സഹായിക്കാനുള്ള ചുമതലകൾ നൽകണമെന്ന് സിഇ.ഒ ആവശ്യപ്പെട്ടിരുന്നോ? അനർട്ടിൽ കഴിഞ്ഞ മൂന്നു വർഷത്തിൽ വിവിധ കൺസൾട്ടൻസികളെ നിയമിക്കാൻ നൽകിയ ഉത്തരവിന്റെയും അവർക്ക് വേണ്ടി ചെലവഴിച്ച തുകയുടെയും വിശദാംശങ്ങൾ ലഭ്യമാക്കാമോ?

അനെർട്ട് സി ഇ ഒ അത്തരത്തിലുള്ള ഒരു ആവശ്യവും ഉന്നയിച്ചിട്ടില്ല. അനർട്ടിൽ ഇ ടെണ്ടർ ക്രിയേറ്റർ, ഓപ്പണർ ചുമതലകൾ വഹിച്ചിരുന്ന ശ്രീ. വിനയ് യെ 2025 ഏപ്രിൽ

മാസത്തിൽ അനെർട്ടിൽ നിന്നും വിടുതൽ ചെയ്തപ്പോൾ തന്നെ മറ്റൊരു ഉദ്യോഗസ്ഥക്ക് ടിയാൻ വഹിച്ചിരുന്ന ഈ ചുമതലകൾ കൈ മാറിയതാണ്. അന്നു തന്നെ ഇ ഓഫീസ്, ടെണ്ടർ പോർട്ടൽ എന്നിവയിലുള്ള ലോഗിനും ഡിസേബൽ ചെയ്തിട്ടുണ്ട്. ശ്രീ. വിനയ് പി പിന്നീട് EYൽ ചേരുകയായിരുന്നു. EYയ്ക്ക് കൺസൾട്ടൻസി നൽകിയ ടെണ്ടർ മൂല്യനിർണ്ണയത്തിൽ ശ്രീ. വിനയ് ഉൾപ്പെട്ടിരുന്നില്ല എന്ന് വ്യക്തമാക്കുന്നു; ഏറ്റവും കുറഞ്ഞ ബിഡ്ഡിനെ അടിസ്ഥാനമാക്കിയുള്ള ഒരു മത്സരാധിഷ്ഠിത ബിഡ്ഡിംഗ് പ്രക്രിയയിലൂടെയാണ് EYക്ക് കരാർ ലഭിക്കുന്നത്. ഈ കാര്യങ്ങൾ എല്ലാം തന്നെ നടക്കുന്നത് 2023-24 കാലയളവിലാണ്.

അനെർട്ടിന്റെ ഗ്രീൻ ഹൈഡ്രോജൻ പ്രവർത്തനങ്ങൾക്ക് മാത്രമായുള്ള PMU വാണ് EY എന്നിരിക്കെ മറ്റ് പദ്ധതികളുടെ നടത്തിപ്പിൽ ഒന്നും തന്നെ അവരുടെ സേവനം ലഭിക്കില്ല.കൂടാതെ അവർ Advisory Services മാത്രമാണ് നൽകുന്നത്. PMU മുഖാന്തരം ഒരു ടെൻഡർ പോലും ഇതുവരെ ക്ഷണിച്ചിട്ടില്ല. PMU ആയി പ്രവർത്തിക്കുന്ന EY കൺസൽട്ടന്റ്മാർക്ക് അനെർട്ട് ഹെഡ് ഓഫീസിൽ തന്നെയാണ് ഇരിക്കുന്നത്. എന്നാൽ, ഇവർക്ക് ആർക്കും തന്നെ ഇ-ഓഫീസ് സംവിധാനമോ, അനെർട്ടിന്റെ ഇമെയിൽ സംവിധാനം കൈകാര്യം ചെയ്യുവാനുമോ അധികാരമോ നൽകിയിട്ടില്ല. അതെല്ലാം അനെർട്ടിലെ ജീവനക്കാർ തന്നെ നേരിട്ടാണ് ഉപയോഗിക്കുന്നത്.

9. ***മന്ത്രിയുടെ കൈകൾ ശുദ്ധമാണെങ്കിൽ അനർട്ടിന്റെ കഴിഞ്ഞ അഞ്ചു വർഷത്തെ മുഴുവൻ ഇടപാടുകളും ഫോറൻസിക് ഓഡിറ്റിന് വിധേയമാക്കാൻ ധൈര്യമുണ്ടോ..? അങ്ങനെയെങ്കിൽ ഫോറൻസിക് ഓഡിറ്റിങ്ങിന് ഉള്ള ഉത്തരവ് പുറപ്പെടുവിക്കാമോ..?***

ബഹു. മന്ത്രിയോടുള്ള ചോദ്യമായതിനാൽ മറുപടി പറയുവാൻ സാധ്യമല്ല

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*വിശദീകരണവുമായി ബന്ധപ്പെട്ട രേഖകൾ ഉള്ളടക്കമായി കൊടുക്കുന്നു

Annexure - 1

GOVERNMENT OF KERALA

Abstract

Power Department - PM KUSUM Scheme - Solarisation of grid connected agriculture pumps for farmers - Appointing ANERT as Implementing Agency - Sanctioned - Orders issued.

POWER (PS) DEPARTMENT

G.O.(Rt)No.51/2020/POWER Dated,Thiruvananthapuram, 24/03/2020

Read 1 Office Memorandum dated 22/07/2019 of MNRE

2 D.O. No.32/54/2018-SPV Division dated 06/11/2019 from the Hon'ble Minister of State, Government of India, MNRE.

3 Lr. No. ANERT-TECH/31/2020 dated 02/03/2020 from the Director, ANERT

ORDER

As per order read as 1st paper above, Ministry of New and Renewable Energy (MNRE) issued guidelines for Prime Minister Kisan Urja Suraksha Evam Utthan Mahabhiyan Scheme (PM KUSUM Scheme) for utilizing solar energy for agricultural purposes.

As per the letter read as third paper above, Director, ANERT has requested to appoint ANERT as the Implementing Agency of the State in order to implement the solarisation of 5200 numbers of existing grid connected agriculture pumps sanctioned by MNRE vide Component C of PM KUSUM Scheme.

Government have examined the matter in detail and are pleased to appoint ANERT as the Implementing Agency of the State in order to implement the solarisation of 5200 numbers of existing grid connected agriculture pumps, as per Component C of PM KUSUM Scheme.

(By order of the Governor)
DR.B.ASHOK IAS
SECRETARY

To

The Secretary, GoI, MNRE, Block No. 14, CGO Complex,
Lodhi Road, New Delhi -110003.
The Director, ANERT, Vikas Bhavan P.O., Thiruvananthapuram
Principal Accountant General, (Audit), Kerala, Thiruvananthapuram
Accountant General, (A&E), Kerala, Thiruvananthapuram
I&PR (Web & New Media) Department
Stock File/ Office Copy

F. No. 32/645/2017-SPV Division
Government of India
Ministry of New and Renewable Energy
***

Block-14, CGO Complex,
Lodhi Road, New Delhi
Dated: 8 November 2019

Office Memorandum

Subject: Guidelines for implementation of Component-C of PM-KUSUM Scheme on Solarization of Grid-connected Agricultural Pumps.

This refers Ministry's OM of even number dated 22.7.2019 vide which Guidelines for implementation of Pradhan Mantri Kisan Urja Suraksha evam Utthan Mahabhiyan (PM-KUSUM) Scheme were issued.

2. Para (5) of III (a) at page 15 of the aforementioned Guidelines, regarding implementation of Component-C, provides that Central PSUs or State Implementing Agencies will carry out tendering process as per the Guidelines, standards and specifications issued by MNRE. Accordingly, detailed Guidelines including applicable standards and specifications, attached at Annexure, are being issued aiming towards smooth implementation of Component-C.

3. This issues with the approval of Competent Authority.

Enclosed: As above.

8/11/19
(J K Jethani)
Scientist-E

To
All Concern

Annexure

Guidelines for implementation of Component-C of PM KUSUM Scheme on Solarization of Grid-connected Agricultural Pumps

1. Background

Approval of Pradhan Mantri Urja Suraksha evam Utthaan Mahabhiyaan (PM KUSUM) Scheme was issued on 08 March 2019. Under Component – C of the Scheme 10 Lakh Grid-connected Agriculture Pumps of individual pump capacity up to 7.5 HP are targeted to be solarised by 2022. As per provisions of the Scheme initially one lakh of grid connected agriculture pumps will be solarised on Pilot basis and further scale-up will be after evaluation of pilot mode.

Component-C of PM KUSUM Scheme is a new initiative from the Government of India aimed at ensuring reliable day time power supply for irrigation, reducing subsidy burden on Discoms and providing additional sources of income to the farmers.

Under this Component, individual farmer having grid connected agriculture pump will be supported to solarise pump. Solar PV capacity up to two times of pump capacity in kW is allowed under the scheme, so that the farmer will be able to use the generated solar power to meet the irrigation needs and get additional income by selling surplus solar power to DISCOMs. Water User Associations and community/cluster based irrigation system will also be covered under this component. The States of AP, Gujarat and Karnataka in recent past implemented pilot projects to test the technology and possible modes of operations for solarisation of agriculture pumps. The brief on these pilot projects are given below:

In the State of Andhra Pradesh, APEPDCL is implementing a pilot project wherein all inefficient AC pump-sets on a feeder have been replaced with solar BLDC pump-sets as per MNRE specifications for stand-alone solar water pumps along with 5 year insurance and warranty. Power generated through the solar panels is fed to the BLDC pump and when the pump is not in operation the solar power is exported to the grid through grid tied inverter. Incentive is available to the participating farmers at the rate of Rs. 1.50/kWh for net injection.

Government of Karnataka had also launched Surya Raitha Scheme for solarization of agricultural pumps. Under the Scheme, old inefficient pumps are replaced with new energy efficient pumps. Two-third of the electricity generated through solar panels is to be mandatorily used by farmers and the balance energy can be sold to the Discom at a proposed rate of Rs. 7.50 / kWh.

Under Suryashakti Kisan Yojana (SKY) launched by Government of Gujarat, PV capacity (in kW) of 1.25 times the pump capacity in HP is allowed to be installed for connection on feeders where normally 70% of the farmers connected on the feeder agree to participate in the Scheme. The scheme allows the Discom to remotely connect or disconnect pumps on a particular feeder to regulate eight hour power supply to non-participating agriculture consumers. Discom purchases the surplus power generated at a rate of Rs. 3.50 per unit and an equal amount of Evacuation Based Incentive is provided to the farmer for seven years to be adjusted against the annual installment for loan portion. Commercial settlement is done based on net of electricity drawn and injected, which is recorded through three meters (Solar generation, pump consumption and import/export from grid) arrangement to get correct reading even in case any of the three meters is faulty. Watch Dog Devise/ Watch dog Transformers are installed to restrict and control the 3-ph power supply hours for non-participating farmers on the feeder. SKY scheme has introduced Software based remote metering of all consumers and prosumers

to avoid metering error and metering/billing loss due to manual intervention. Remote monitoring of three meters of Agriculture consumers and other consumers on the feeders is being through Solar Energy Data Management System (SEDM). Distribution loss more than 5% on the feeder is distributed among the solar prosumers on pro-rata of sum of their injected and drawn energy on the feeder. This mechanism enable control over possible irregularities on the feeder.

Guidelines for implementation of PM KUSUM Scheme issued on 22.07.2019 provides that Central PSUs or State Implementing Agencies (IAs) will carry out tendering process as per the Guidelines, standards and specifications issued by MNRE for Component-C. Accordingly, these guidelines are being issued aiming towards smooth implementation of Component-C.

2. Options for solarisation

There could be following options for solarisation of agricultural pumps:-

i. **Option-1 (Net-metering):** In this case the agriculture pump will continue to run at rated capacity taking power from solar panels and balance power from grid, if required, and in case solar power generation is higher than required by pump, the additional solar power would be fed to the grid. Farmer would be able to import and export power to the grid at the rate specified by the concerned State Government/SERC.

   In this case, since the feeder will be kept 'ON' during the sunshine hours from morning to evening, there is a possibility that the farmer may run the pump during the peak hours drawing power from the grid and feeding surplus solar power during the off-peak hours. This situation may not be desirable from the Discom's perspective due to price differential between peak hours and off-peak hours. To overcome this situation, Discom may introduce different drawl and injection tariff rates so that farmers are discouraged to draw power from the grid. Further, Time of Day (ToD) tariff is also an alternative to efficiently manage demand and supply on the solarised feeders.

ii. **Option-2 (Pump to run on solar power only):** In this case the pump will only run on the solar power as in case of stand-alone solar pump and no power will be drawn from the grid for the operation of pump. The existing motor pump set will have to be replaced with AC/DC solar water pumping system as per MNRE specification for standalone solar pump and when the pump is not running the solar power can be fed in to the grid through suitable grid-tied inverter.

   The total solar PV capacity including additionally allowed under the Scheme can be bifurcated into two portions, one portion of SPV capacity as per MNRE specifications required for the standalone solar pumps of given HP capacity, which will either run the pump or feed power to the grid when the pump is not running; and other portion of SPV capacity out of the total allowed by the State will continuously feed power to the grid during sunshine hours.

Based on the experiences from the pilot projects conducted by States, the IAs may choose either or a combination of options given above during the pilot phase. State can also devise their own system other than the options given above and implement the same during the pilot phase.

The Central Government will provide Central Financial Assistance (CFA) up to 30% of the cost of solarisation of the pump for solar PV component including solar modules, module

mounting structure, controller/inverter, balance of system, installation & commissioning, five year CMC, insurance, etc., on basis of benchmark cost or cost discovered through tender whichever is less.

Solar PV capacity up to two times of pump capacity in kW is allowed under the scheme. However, State may specify lower solar PV capacity in kWp, which in any case shall be not be less than pump capacity in HP e.g. for 5 HP pump, the solar PV capacity allowed should not be less than 5 kWp and may go up to 7.5 kWp (1 HP ~ 0.75 kW).

Further, the CFA will be provided for solarisation of pumps up to 7.5 HP. Solarisation of Pumps of capacity higher than 7.5 HP is also allowed, however, the CFA in such cases would be limited to the CFA applicable for pump of 7.5 HP in the respective State/UTs.

3. Selection of Feeders and load survey

Feeder-wise implementation is to be carried out under this component for solarisation of grid-connected agricultural pumps. Feeders may be selected on the basis of load, technical and commercial losses, number of consumers, etc. Efforts should be made to solarise all agriculture pumps in a feeder, however, IAs may impose a minimum solarisation requirement for a feeder in terms of minimum % of pumps solarized on that feeder.

GPS Survey should be carried out on eligible feeders to correct feeder coding and ensure accurate feeder loads and distribution loss calculations.

Farmers may be given option to declare his actual connected load or alternatively the IAs may carry out survey to get details on actually connected load so that solar PV panels of required capacity is provided to the participating farmers. IAs may also assess the actual requirement of pump capacity based on water requirement and water table

4. Tariff and Energy Accounting and Payments

Depending upon the model adopted, the DISCOM will purchase solar power from the farmer at the rate decided by the respective State/SERC. Component-C of the PM KUSUM Scheme will be implemented on pilot basis, therefore, the IAs may workout innovative technical and financial models and test them during the pilot phase.

Distribution losses for the selected feeder may be accounted and internalised in the financial settlement through an appropriate system worked out in consultation with the concerned SERC for e.g. under SKY Scheme the losses are socialised on the concerned feeder.

Smart meters having facility of sending data on real time basis shall be deployed. The IA may choose appropriate metering arrangement to get proper energy accounting at each consumer level and feeder level and avoiding possibility of any malpractice.

5. Implementation arrangement and tendering

Once the feeders are identified and implementation model is selected the IA will conduct information and awareness campaign for the farmers to share the details of the scheme and educate them about the implementation model and benefits of participation in the scheme. Banks/FIs may also be part of this campaign to provide the loan facilities against the required farmer share. Feeder wise committee of farmers may be formed, which will coordinate amongst the participating members and other agencies involved in implementation of the Scheme.

IA shall invite bids for empanelment of Vendors through transparent bidding process. Empanelment may be state-wide or feeder-wide, as per decision of the state. To ensure quality and post installation services, only manufacturers of solar panels or manufacturers of solar

water pump would be allowed to participate in the bidding process. Preferably single vendor may be given responsibility of a feeder to ensure better services and accountability.

In case a State chooses to install additional devices for management of feeders, e.g. watchdog transformers and devices deployed under SKY Scheme, tender for the same may be conducted separately as the financial requirement to this end shall be met from the State funds.

Real time monitoring is an important aspect in implementation of the component-C and therefore, a separate vendor having expertise in metering, communication and designing the required software for monitoring including getting data through different communication service providers, processing of data using analytical tools, generating reports for monitoring and MIS, etc., may be selected.

6. System Specifications

MNRE has already issued updated specifications for stand-alone solar water pumping system vide circular dated 17.7.2019(as amended from time to time), these specifications also cover specifications for solar modules, MMS and other balance of system. The same shall be adopted as minimum system specifications for solarisation of grid connected agriculture pumps. For grid-tied inverters, applicable BIS/MNRE specifications shall be followed. Protection equipment including surge protection devise, lightning arrestors, earthing, MCB/MCCB/RCCB, etc., shall be provided as per standard industry practice.

It will be mandatory to use indigenously manufactured solar panels with indigenous solar cells and modules. Further, motor-pump-sets, inverter/controllers and balance of system should also be manufactured indigenously. The vendor has to declare the list of imported components used manufacturing of equipment used in the solarisation system.

7. Quality, Efficiency and Maintenance

Systems installed under this Programme should meet technical specification and construction standards as specified by BIS and MNRE from time to time. Non-compliance will be taken seriously to the extent of blacklisting of the vendor, in the same manner as specified, apart from taking action under any other law in force. The vendors shall provide valid test certificates for equipment and system, which may be verified from the issuing agency, if required. To ensure the quality, inspection shall be carried out at factory level before despatch of major items e.g. solar modules, inverter/controller, MMS, etc., during the installation of system and final commissioning of the system. Officers involved in inspection should be domain experts, properly trained and equipped with necessary tools for inspection. An inspection manual and reporting formats with check list may be developed for this purpose. The IA may engage a third party inspection agency for this purpose.

Selected vendors shall be responsible for design, supply, installation and commissioning of adopted solarisation system for grid connected agriculture pumps. Vendors shall mandatorily provide AMC for a period of 5 years from the date of commissioning of the system including insurance coverage for the installed system against natural calamities and theft. AMC will include inspection by Vendor at least once in a quarter and submission of quarterly inspection report of the installed system as per prescribed format. To ensure timely maintenance of the system the vendor shall have one authorized service centre in each operational district and a helpline in local language in each operational State. Helpline number shall be indicated on the inverter/controller at suitable location easily visible to the user. The vendor shall attend the complaint registered/informed and resolve the same within a specified timeline.

IA may specify a minimum guaranteed generation during a year from the solar system installed for a specified period and provision of compensation in case of not achieving the same.

Before installation, the implementation agency shall conduct survey of the existing pumps proposed to be solarised on the selected feeder. Efforts shall be made for replacement of inefficient pumps conventional AC pumps with five star rated efficient pumps to ensure optimum use of energy. Funds for pump replacement may be provided through applicable Central or State Government Schemes and/or farmers' contribution. State may also devise mechanism to provide bank loan to farmers for pump replacement.

Thorough maintenance of selected agriculture feeders is required to maintain feeder availability during sunshine hours. This includes maintenance of 33/11 kV sub-station, 33 kV, 11 kV and LT lines and distribution transformers, etc., on regular basis in a time bound manner. Proper protection system including improved earthing of equipment shall be provided considering possibility of high voltage/current due to multiple generating sources in the feeder selected for solarisation.

8. Monitoring

It will be mandatory for implementing agency to create remote monitoring system to monitor performance of the system post-installation. The remote monitoring system will consist of smart meters, communication hardware/ IoT devices, software interface, web and mobile application and internet connection.

State may choose to install watchdog transformer and devices to regulate power supply and monitor non-participating connections on the feeder concerned.

Implementing agencies will monitor installations through web applications and on field from the perspective of ensuring proper functioning of the systems and to aggregate and analyse data generated during the pilot phase which will help in scheme refinement in expansion phase.

MNRE will develop a central monitoring portal which will extract data from the State portals for monitoring of the scheme and analyse data generated, which will in turn be used in scheme refinement and taking measures to attract more farmers to the scheme and induce required behavioural changes.

9. Interpretation of the Guidelines

In case of any ambiguity in interpretation of any of the provisions of these guidelines, the decision of the Ministry shall be final.

The Guidelines would be reviewed by the Ministry from time to time and necessary modifications would be incorporated after getting approval of competent authority.

*****

F. No. 32/54/2018- SPV Division
Government of India
Ministry of New & Renewable Energy
*****

Block No.14, CGO Complex
Lodi Road, New Delhi 110003
Dated: 18 May 2022

ORDER

Subject: Sanction for solarization of individual grid-connected agricultural pumps under Component-C of Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyaan (PM KUSUM)

With reference to demand received from various States for solarization of individual pumps under Component-C of Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyaan (PM KUSUM) Scheme, I am directed to convey the sanction of President of India for following quantities to State Implementation Agencies (SIAs) under the said component:

S. No.	State Implementation Agency (SIA)	Sanctioned Quantity of Existing Agricultural Pumps (Nos.)
1	Assam Energy Development Agency (AEDA)	103
2	Jharkhand Renewable Energy Development Agency (JREDA)	208
3	Agency for New and Renewable Energy Research and Technology (ANERT), Kerala	9348
4	Distribution Companies in Odisha*	8310
5	Punjab Energy Development Agency (PEDA)	39
6	West Bengal State Electricity Distribution Company Limited (WBSDCL)	4778
	Total	**22786**

*State Government to finalize Discom-wise allocation and intimate to MNRE

2. The project commissioning timeline shall be as mentioned in the Guidelines for implementation of Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyaan issued vide order no. 32/645/2017-SPV Division dated 22.07.2019 and amendments thereof. SIAs shall submit progress reports and completion reports on the online portal for PM-KUSUM Scheme.

3. SIAs shall follow all the terms and conditions stipulated in the Guidelines of the above mentioned Scheme issued vide Order no. 32/645/2017-SPV Division dated 22.07.2019 and Order no. 32/645/2017-SPV Division dated 08.11.2019 and amendments thereof. SIAs shall follow the Scheme Guidelines for selection of beneficiary farmer. Further, systems installed under the Scheme should meet technical specification and construction standards as specified by BIS and MNRE from time to time.

4. SIAs shall carry out various activities as mentioned under Section on Responsibilities of State Implementation Agency under Component-C of the Guidelines, including creating awareness about the scheme. MNRE may retain a certain amount from service charge for nation-wide centralised IEC activities.

5. Eligible CFA and service charges would be released to SIAs as per provisions of Administrative Approval dated 08.03.2019 and terms and conditions stipulated in the Scheme Guidelines and amendments thereof. CFA will be worked out based on benchmark cost as amended from time to time or the tender cost, whichever is lower.

6. SIAs will ensure use of indigenously manufactured solar panels with indigenous solar cells and modules. Further, the balance of system should also be manufactured indigenously. The vendor shall provide declaration to SIAs with a list of imported components used in the solarisation system.

7. SIA shall be liable for recovery of the whole or part amount of the CFA, with applicable penal interest, in case of non-compliance of the provisions of the Scheme/Sanction.

8. In terms of Rule 230 (7) of GFR 2017 and instructions of DoE, concerned SIA shall record the receipt of incentives and the expenditure therefrom in the EAT module of PFMS.

9. In terms of the Rule 230 (1) of GFR, concerned SIA will certify that they have not obtained or applied for grants for the same purpose or activity from any other Ministry or Department of the Government of India or State Government.

10. In terms of provisions contained in Rule 236(i) of GFR 2017, the account of concerned SIA shall be open to inspection by the sanctioning authority and audit (both by CAG of India and Internal Audit by the Principal Accounts Office of the MNRE), whenever the organization is called upon to do so.

11. SIAs will furnish year wise Utilization Certificate (UC) in the prescribed format of GFR-12(A) and Audited Statement of Expenditure (ASoE) along with detailed progress report periodically as per provisions of the scheme.

12. As per Rule 234 of GFR-2017, the sanction has been entered at S. No. 03 & Page No. 51 in the Expenditure Register of this Division.

13. This issues with the approval of Competent Authority.

(Shobhit Srivastava)
Scientist D
Phone No: 011-24360707/1016

To

Concerned SIAs/ Distribution Companies for Component-C of PM-KUSUM

Copy to:

1. Principal Director of Audit, Scientific Dept., DG, ACR Building, IP Estate, N. Delhi
2. AG, CW & M.II (Science Audit), AGCR Building, New Delhi
3. Pay and Accounts Officer, MNRE
4. IFD, MNRE
5. Sanction folder

Annexure - 4

सत्यमेव जयते

PRINCIPAL ACCOUNTANT GENERAL (AUDIT-II), KERALA

लोकहितार्थ सत्यनिष्ठा
Dedicated to Truth in Public Interest

Local Audit Party : CA Party 18
Auditee Unit Name : Agency for Non-Conventional Energy and Rural Technology (ANERT)
Dated : 30-Sep-23

Audit observation reference : #9 (OBS-994971)

Subject: Implementation of PM-KUSUM scheme

Ministry of New and Renewable Energy (MNRE) has launched (July 2019) the Pradhan Mantri Kisan Urja Suraksha evam Utthan Mahabhiyan (PM-KUSUM) Scheme for farmers. The scheme aims to add solar capacity of 30,800 MW by 2022 with total central financial support of ₹ 34,422 Crore including service charges to the implementing agencies. The scheme would be completed by 31 March 2026.
ANERT has to implement component B and C components of the scheme as detailed below:
Component-B: For Installation of 17.50 Lakh stand-alone solar agriculture pumps. Under this Component, individual farmers will be supported to install standalone solar Agriculture pumps of capacity up to 7.5 HP for replacement of existing diesel Agriculture pumps / irrigation systems in off-grid areas, where grid supply is not available. Pumps of capacity higher than 7.5 HP can also be installed, however, the financial support will be limited to 7.5 HP capacity.
Component-C: Solarisation of 10 Lakh Grid Connected Agriculture Pumps.
Under this Component, individual farmers having grid connected agriculture pump would be supported to solarise pumps. Solar PV capacity up to two times of pump capacity in kW is allowed under the scheme. The farmer will be able to use the generated solar power to meet the irrigation needs and the excess solar power will be sold to DISCOMs.
Central Financial Assistance of 30 *per cent* of the benchmark cost or the tender cost, whichever is lower, of the stand-alone solar Agriculture pump would be provided. The State Government would give a subsidy of 30 *per cent* and the remaining 40 *per cent* would be provided by the farmer.
Details of component wise sanctioned and installed solar capacity(August 2023) are shown in the table below:

Component	Date of sanction	Number	Completed as per MNRE	% of completion	Total work order issued
B	13/01/2021	100	8	8	
C	13/01/2021	100	68	68	96
	18/05/2022	9348	209	0.46	401
	05/08/2022	35652			

In this connection Audit observed the following:
1. As per guidelines, State-wise allocation of solar pumps would be issued by MNRE once in a year or as and when required, after approval by a Screening Committee under the chairmanship of Secretary, MNRE. Much before the start of every financial year during the Scheme tenure, MNRE will call for submission of demand from the implementation agencies. Based on overall target for the year and the demand received from implementation agencies, MNRE will allocate quantity of pumps to the implementation agencies in the States. On acceptance of the allocated quantity by the implementation agencies and submission of detailed proposal as per MNRE format, within a given time period, final sanction would be issued by MNRE As per the study report of Energy Management Centre (EMC) in 2018, there were 4.45 lakh number of agricultural pump sets consumers in Kerala. The overall rated efficiency of 54.8 per cent of sampled pumps (150 nos) is only less than 40 *per cent* . Based on the analysis carried out a saving potential of about 68.4 MU per year has been identified by the replacement of local made and low rated energy efficiency pumps. As such, there were 2.44 lakh low energy rated pump sets in Kerala in the year 2018. However ANERT requested only 200 numbers and 45000 numbers of pump sets during 2021-2022 and 2022-23 respectively. ANERT also requested (October 2022) sanction for 55000 more pump sets . in October 2022. Reason for not submitting application for inclusion in the scheme for remaining 1.44 lakh pump sets may be stated to Audit.

2. As per guidelines 2 per cent of the eligible CFA will be provided as total service charges to all agencies implementing the scheme including the designated State Implementing Agencies, Projects for solarisation of pumping systems shall be completed within 12 months from the date of sanction by MNRE. MNRE revised (December 2021) the implementation period to 24 months. Extension in project completion timelines, up to a maximum period of three months, will be considered at the level of Group Head in MNRE and upto 6 months at the level of Secretary in MNRE on submission of valid reasons by the implementing agency. However, such extension will attract reduction in service charges to implementing agency as under: a. 10% reduction in applicable service charges for delay of more than one month in completion of project. b.

Further reduction of 10% of service charges for delay of more than two month and up to three months. c. Further reduction of 10% of service charges for delay of more than three month and up to six months d. No service charges for delay in completion of more than six months.

3. Audit noticed that progress reported for the sanctioned work is ranging from 0.46 to 68 per cent and time of completion as per the sanction letter has already been expired in respect of first two sanctions. Due to non -completion of the work, ANERT will loss 2 per cent of the service charge as per guidelines.

4. Audit noticed delay in tendering and awarding the contracts as ANERT has not invited tender for 35652 number of pump sets so far though the sanction was received in August 2022.

5. ANERT had invited tender for an aggregate capacity of 300 HP pump sets on 10 February 2021. The financial bids of the two qualified bidders (M/s V K Enterprises and M/s CDIT) for the Component - C for PM-KUSUM were opened and M/s V K Enterprises was the L1 bidder for all capacity. As The tender submission was done before the revision of MNRE benchmark costs for 2020-21. the L1 bidder was asked to match the benchmark cost or lower the price. L1 bidder, however, intimated their inability to reduce the price due to increase in price of raw material. Hence ANERT cancelled the tender. ANERT invited new tender in May 2021 and the rate obtained was more than the rate in the previous tender as shown below:

SL No	Item	L1 rate in the cancelled tender	L1 rate in new tender	Difference	Executed	Extra expenditure
1	SIC of SPV Power Plant of 2 kW capacity	118152	158531	40379	32	1292128
2	SIC of SPV Power Plant of 3kW capacity	160500	218363	57863	18	1041534
3	SIC of SPV Power Plant of 5 kW capacity	253500	334230	80730	6	484380
4	SIC of SPV Power Plant of 7 kW capacity	324131	436133	112002	12	1344024
						4162066

Cancellation of tender and delay in inviting new tender has resulted in cost increase to the extent of ₹ 41.62 lakh.

6. NABARD has sanctioned (March 2023) RIDF loan for an amount of ₹172.05 crore to ANERT and NABARD had transferred ₹ 34.4 crore to the Finance Department as mobilisation advance. Government has not released the same to ANERT so far. The reason for the same may be stated.

7. MNRE sanctioned ₹ 23.84 crore to ANERT on 29 August 2023 for the sanctioned 9348 pump sets sanctioned in May 2022. However, no sanction has been received for the 100 number of sets sanctioned I January 2021. Reason for non- release of CFA may be stated to Audit.

8. As per guidelines to ensure quality and post installation services, bids had to be called from manufacturers of solar panels/water pumps or joint venture of manufacturers with system integrators. Accordingly ANERT invited tender (16 February 2021) for 100 pumps incorporating the above condition. However, through tender amendment ANERT clarified that it is not mandatory to form a JV company in this regard and qualified INKEL in the tender though INKEL is not a manufacturer nor formed a JV with a manufacturer. In the subsequent tender INKEL formed a JV Company and participated in the tender. Reason for changing the tender clause, details of work order issued in the tender dated 16 January 2021 may be stated to Audit.

Senior Audit Officer

Agency for Non-Conventional Energy and Rural Technology (ANERT)

I/18705/2023

Annexure - 5

Reply to Audit Questions
Reference no: ANERT-FA/140/2023-JM-F and A (01) dated 27-11-23

1. PM KUSUM Component C, as per the MNRE guidelines the funding pattern is proposed as 30% of benchmark cost as central subsidy &30% State subsidy and the remaining (40%) will be the beneficiary share. MNRE has sanction 100nos as per order no. 32/54/2018-SPV Division dtd. 13-01-2021.

   Being a flagship project ANERT had undertaken large scale marketing and publicity for the project so as to bring the participation of maximum solar EPC contractors to the open tender and also district wise awareness program conducted among farmers to adopt the new green electricity and income source. ANERT had conducted meetings with farmers in different districts, given media advertisements regarding the project. Inauguration of the first project was done by Hon. Electricity Minister at Kuravilangadu Kottayam. Hording and banners of the project depicting the early adopters of the scheme where also put on several State High way side to mobilize beneficiaries for the scheme. A pre-bid EPC meeting for the project was also conducted at Mascot Hotel Trivandrum to familiarize the EPC companies about the project to facilitate maximum participation.

   ANERT received about 230 application for the project from 14 Districts.

   The tender price discovered was high when compared to the rooftops solar pv systems due to following factors

1. There is high shade prevalence in farming area other than paddy fields, to identify a shade free site for project implementation several sites need to be surveyed. This escalates site identification cost .
2. A special Remote monitoring system for data transfer to central and state portal , its communication interface are part of this project as per Guide lines of MNRE, which is not part of rooftop solar systems
3. 7 years of warranty, service maintenance and insurance cost involved in the price where as rooftop projects having only 5 years warranty.
4. Requirement of indigenously manufactured Solar cell – Panel and Inverter as per Guide lines of MNRE, which are on higher price side as compared to the product specification for rooftops projects.

   In the 230 applications received we could complete installation of only 68no sites. While implementing this we came across some issues as follows.

i. The CFA proposed by MNRE is based on the Bench mark cost .There is a huge difference in the tendered amount and benchmark cost. The 30% of bench mark cost

is subsidy for the project from MNRE. This makes beneficiary share to reach around 65% in place of 40%. This higher beneficiary share made farmers to step back from the project during the first allocation.

ii. The beneficiary share being high also expelled farmers from collateral free criteria of agricultural loans from banks.

iii. The farmers are getting free electricity which makes them less interested in making investment in solar.

These issues slow down the implementation of the project and we could complete only 68no in the first allotment. Huge beneficiary share prevents the farmers from this program.

This made ANERT to study the viability of project so as to reach benefits for farmers. In Kerala, there are 4.5 lakhs of agricultural pumps. Among them 2.75 lakhs of pumps with small and marginal farmers who enjoys free electricity. ANERT decided to Solarise 1 Lakh pumps with funding from financial institutions. MNRE sanctioned solarisation of 45000 agricultural pumps in first phase ,remaining quantity of 55,000 is under active consideration of MNRE

ANERT submitted the proposal of solaraisation of 9348 agricultural pumps to NABARD scheme and got approval for 5955 pumps with a total out lay of Rs.172.05cr. For balance 3933 pumps approval is under process with NABARD. ANERT tendered for 9348 pumps and started the implementation of the project as soon as the approval from NABARD received. Hence the project is implemented with zero beneficiary share. The sanctioned 35652 ns we are planning to solarise using NABARD – AIF (Agricultural infrastructure Fund). For solarising 1.44lakh pump without beneficiary share huge amount is required and the difficulty mobilizing such a fund is one of the reason for not requesting for 1.44lakh pumps.

2. PM KUSUM scheme has been extended till 31.03.2026 as per order no. 32/645/2017-SPV division dtd. 01.08.2022. (copy attached)

3. MNRE sanction dated 13.01.2021, the implementation process completed and given the short closing letter to MNRE for the balance 32nos. Since it was the first time the project is being implemented and the numbers are less it was decided to submit for the CFA towards the completion of the project. The CFA request for 68nos out of 100 was submitted MNRE (16-10-2023). The utilization certificate for MNRE fund release is prepared and submitted for 68 sites so that the CFA can be processed in single go for the first allotment.

Regarding the sanction dated 18.05.2022, which is the project running project the advance CFA has been received from MNRE.

4. The completion period of the project has been extended till 31.03.2026 as per order no. 32/645/2017-SPV division dtd. 01.08.2022. For implementing the 35652 pump

I/18705/2023

solarisation a huge amount is required (more than 1000 Crores) and discussions are going on for getting the finance. Once the funding from the financial institution is finalized we can go for the tendering of 35652 pumps which will fetch more EPC players for the project tendering and implementation.

5. ( )
6. The amount has not been released till now from government due to the non availability of loan head of account. Account creation is in the final stage.
7. The CFA request for 68nos out of 100 was submitted MNRE (16-10-2023). The utilization certificate for MNRE fund release is prepared and submitted for 68 sites so that the CFA can be processed in single go for the first allotment. Short closure letter has been submitted to MNRE for the balance 32 number pumps
8. For the pilot project only 100no sites were allotted. After the tender was floated interested EPC companies expressed the difficulties in forming JV with manufacturers for a small quantity and also the project was being implemented as pilot phase in Kerala. The purpose of forming JV being is to ensure use of DCR indigenous solar panels for the project and ensuring effective complaint redressal. As an immediate solution to kick start the project relaxation was allowed in the form of manufacturer authorization certificate from the OEM to the EPC vendor to take part in the tender. Manufacturer also had to certify that their product is in line with the tender condition.

Work order details (Details attached)

Sl no	Company name	Date	No of Sites
1	Tata Power Solar Systems ltd	7/2/2022	27
		22/3/2022	11
		18/7/2022	15
		22/8/2022	10
		26/10/2022	21
		1/12/2022	8
		26/12/2022	4
2	Soura Natural Energy Solutions India pvt ltd	19/8/2022	10
3	KC Kopar Energy Solutions P ltd	29/7/2022	7
4	Green Roof Solar Pvt ltd	11/2/2022	1
5	Solar tech Renewable Energy Pvt Ltd	2/11/2021	1
6	Wattsun Energy India pvt Ltd	11/7/2023	1
7	Inkel Ltd	0	0

Minutes of the 58th Meeting of the Executive Committee of ANERT

Venue : Chamber of the Additional Chief Secretary to Government, Power Department, Government Secretariat

Date and Time : 10-01-2023, 4.30 pm.

Participants : 1. Shri. K.R.Jyothilal IAS, Additional Chief Secretary to Government, Power Department. - Chairman

2. Sri. Narendra Nath Veluri IFS, Chief Executive Officer, ANERT
3. Dr. R. Sasikumar, Former Director CAPE
4. Smt. Latha. S, Additional Secretary, Finance Department
5. Sri. Sajeev. G, Chief Engineer, REES, KSEB Ltd.
6. Sri. Subhash Babu B.V, Registrar, EMC (Representing, Director, EMC)

The Executive Committee meeting commenced at 4 .30 pm and was chaired by Additional Chief Secretary to Government, Power Department. The following agenda items were taken up for discussion and decisions taken are recorded against each item:

Item No.	Item	Decision
58.01	Confirming the minutes of the 57th Meeting of the EC of ANERT.	Approved and placed on record.
58.02	Action taken report on the decisions of the 57th Meeting of the Executive Committee of ANERT.	The CEO presented the action taken on the decision of the Executive Committee After discussion; the GB approved the action taken report.
58.03	Chief Executive Officer's Report.	The CEO presented the major programmes and activities implemented by the institution after the 57th EC meeting. Each item discussed in the EC. Approved and placed on record.
58.04	Whether the action taken to open a saving bank account in HDFC Bank for the exclusive use of e-Mobility Project be ratified.	Ratified. Go by the finance circulars in this regard if any.

Item No.	Item	Decision
58.05	Whether the revised proposal for the delegation of financial powers to CEO for acceptance of Deposit work/Tender for works up to single project of 5 MW solar power plant irrespective of financial limitations be approved.	The delegation of financial power to CEO for acceptance of Deposit work/Tender for works up to single project is enhanced to Rs. 25 Crore.
58.06	Whether ANERT can move forward with the proposal for creation of a Special Purpose Vehicle for Renewable Energy Generation	Approved and recommended to Governing Body of ANERT
58.07	Whether CEO, ANERT is allowed to enhance the monthly stipend of the Engineering Graduate Apprentice and Diploma Apprentice Trainees to Rs. 12,000/- and Rs. 10,000/- respectively.	Approved
58.08	Whether we may engage 14 Nos of Technicians (ITI/Diploma) (One in each District) through Urjamithra Centres for the support relating to day-to-day operations, maintenance and new installation works of EV Charging stations by providing monthly remuneration of 17,500/-.	Approved
58.09	Ratification of action of the Chief Executive Officer for extending the contract period of 7 Project Staff recruited through CMD and 13 District Project Engineers for a further period of one year with increase in remuneration as per their performance evaluation.	Ratified

Item No.	Item	Decision
58.10	Whether the Executive Committee may recommend the proposal for granting permission to extend the contract period of project staff who were provided yearly extension of contract more than two times for a further term extension of 3 years instead of yearly extension for effective implementation of projects based on their performance evaluation to the Government.	As period has lapsed the decision should be put up to the Government (**or**) CEO shall take steps for fresh recruitment for a period as per existing Government circulars / orders through Employment Exchange. If candidates with prescribed qualifications and experience are not available through Employment Exchange then steps can be taken to appoint directly or through CMD.
58.11	Whether CEO ANERT shall be authorised to create an incentive Scheme for Projects implementation team based on achieving the target and whether to dis incentivise if they are unable to meet the target? If allowed, whether the suggested incentive maximum of Rs.100/- per kW is agreed?	The proposal is recommended to Government for approval, since Government funds are involved.
58.12	Whether the audited statement of Accounts of ANERT for the year 2019-20 may be approved	Approved and recommended to Governing Body. The deviations observed by the Auditor should be addressed immediately. A professional CA shall be engaged immediately to overcome the audit observations.

The meeting ended at 5.30 pm.

Chief Executive Officer, ANERT
& Member Secretary of EC

Additional Chief Secretary to Government,
Power Dept. & Chairman, EC of ANERT

NAVEEN BABU KOLLURI IFS
CHIEF EXECUTIVE OFFICER, ANERT

DR. JYOTILAL IAS
PEN: 325187
Additional Chief Secretary
Dept. of General Administration,
Forest & Wildlife and Power
Govt. of Kerala, Thiruvananthapuram
Ph: 0471-2518669

Annexure - 7

Minutes of the meeting with PM KUSUM C- technically qualified bidders

Date- 6/12/22- 10.00AM Place: Conference Hall, ANERT HQ

The meeting was conducted under chairmanship of, *Narendra Nath Veluri* IFS, CEO, ANERT.

Participants for the meeting

1. Shri. Aneesh S Prasad- CTM ANERT
2. Shri. Jayakumar R (online)- PM KUSUSM NODAL OFFICER
3. Shri. Arun Rajan R V – Project Engineer ANERT
4. Shri. Abhijith K K – PE
5. Shri. Kiran Krishnan G - PE
6. Smt. Manju S – DPE
7. Smt. Sajitha V - Computer Operator
8. Smt. Geethu – IT Department ANERT
9. Representative from TATA Power Solar systems Ltd (online)
10. Representative from Suryam International Pvt Ltd (online)
11. Representative from Suntastic Engineering Pvt Ltd (online)
12. Representative from Sirius Solar Energy Systems Pvt ltd (online)
13. Representative from Rajasthan Electronics Instruments Ltd (online)
14. Representative from Aditi Solar Pvt Ltd (online)

I. The point observed by CEO was the lesser number of successful bidders and exorbitantly high rates quoted by the bidders in tender. These two factors collectively will cause issues in loan repayment in NABARD scheme and project completion of huge volume of customers with in stipulated time period. The return on investment will happen only after unreasonably long years which will affect the benefits of the farmers who are the beneficiaries. Also observed that since the price came was on higher rates, MNRE should also be notified as the price is no way near to the approved benchmark cost for the project.

II. CEO also commented on the lower number of Bidders in the Group 2 ie above 10 kW system and shared his concern on the completion of the project with this lesser number of bidders.

III. CEO also observed the quantity of quotes received were lesser when compared to the quantity of installations needed to be done.

IV. CEO sought the views of representatives from the firms came as technically qualified.

V. The representative from TATA POWER responded that from the recent cost of installations the cost arrived is not higher, also the accommodation of RMS is also made the project expensive. Also the same cost is done for Odisha in PM KUSUM Scheme.

VI. Also he told that MNRE will be notified about the overall change in the cost of the PM KUSUM C tenders and TATA will be able to substantiate the need for revision of benchmark cost for PM KUSUSM C projects. TATA also sought the support of ANERT in highlighting about the requirement of price revision in MNRE

VII. The representative from Suntastic Engineering Private Ltd bought the attention to chairman that the absence of separate BoQ in the tender will aroused some confusions while tendering.

VIII. CEO also observed that some of the successful bidders intimated ANERT that the rates quoted was not considering the actual scenario of the installations and this will also affect the rate finalised as per the present tender.

IX. By considering all these facts, CEO provided the scope of re tendering as the solution.

X. CEO observed that in the retender, the compulsory participation of all bidders in all capacities may be considered.

XI. On that observation, The representative from Sirius Solar Energy Systems Pvt Ltd requested on not to make quoting for above 10kW mandatory for the retendering.

The decision taken by CEO during the meeting are given below

1) Retendering need to be done by considering all corrigendum released for the previous tender.
2) All the bidders should mandatorily submit bids for group 1 and group 2 (above 10kw)
3) To provide separate quote for rooftop and ground mount systems in the retender document.

Meeting concluded at 10.20 AM.

****

NARENDRA NATH VELURI IFS
CHIEF EXECUTIVE OFFICER, ANERT

AGENCY FOR NEW AND RENEWABLE ENERGY RESEARCH AND TECHNOLOGY
ANERT
TVM

Annexure - 8

ASPL/MKTG/ANERT/2022-23/03 03.12.2022

To,

The Chief Executive Officer,
PMG - Law College Road
Vikas Bhavan P.O.
Thiruvananthapuram – 695 033

Dear Sir,

Sub: - Rate Contract for the Solarisation of Grid Connected Agricultural Pumps of cumulative capacity of 9,348 nos ranging from 2kW-150kW under the PM-KUSUM scheme (Component-C) in the State of Kerala Tender –Price Bid L1 Regret Reg.,

Ref: ANERT-TECH/144/2022-T4

We, M/s. AditiSolar Private Ltd. have submitted the bid for the tender vide no. ANERT-TECH/144/2022-T4- Rate Contract for the Solarisation of Grid Connected Agricultural Pumps of cumulative capacity of 9,348 nos ranging from 2kW-150kW under the PM-KUSUM scheme (Component-C) in the State of Kerala.

We are saying apology on subjected tender we are not ready to do this work as we are unable to do with in the rates quoted by us . So we could not able to provide the systems with these rates. Please Excuse us in this regard. Please don't consider our prices.

We are regretting to accept our price as L1 and we are not ready to do this project at this moment. We are saying extremely sorry for this unfortunately happend as we never try to do lower the prices and we always prefer quality against price. So we are regret to accept the rates quoted by us as L1.

Request you to please consider our request and do the needful.

Thanking You,

Yours hopefully,

Ch.Siva Rama Raju,

Director.

Gmail Anert <anert033@gmail.com>

Fwd: M/s. AditiSolar Private Ltd. regret to accept as L1 for the tender vide no. ANERT-TECH/144/2022-T4- Rate Contract for the Solarisation of Grid Connected Agricultural Pumps of cumulative capacity of 9,348 nos ranging from 2kW-150kW under the PM-KUSUM scheme (Component-C) in the State of Kerala.

1 message

Jayakumar R <jayakumar@anert.in> 3 December 2022 at 17:29
To: anert <anert033@gmail.com>, Premkumar K <premk@anert.in>, Rajesh R <rajesh@anert.in>, Kala KG <kala@anert.in>

---------- Forwarded message ---------
From: **Annapurna Aditi Solar** <marketing@aditisolar.in>
Date: Sat, 3 Dec, 2022, 17:24
Subject: Re: M/s. AditiSolar Private Ltd. regret to accept as L1 for the tender vide no. ANERT-TECH/144/2022-T4- Rate Contract for the Solarisation of Grid Connected Agricultural Pumps of cumulative capacity of 9,348 nos ranging from 2kW-150kW under the PM-KUSUM scheme (Component-C) in the State of Kerala.
To: CEO ANERT <ceo@anert.in>
Cc: Chief Technical Manager ANERT <ctm@anert.in>, Premkumar K <premk@anert.in>, Rajesh R <rajesh@anert.in>, Kala KG <kala@anert.in>, Jayakumar R <jayakumar@anert.in>

Dear Sir,

Once again we requesting the same as don't consider our prices as L1 and we regret to accept our rates as L1.

We are saying very sorry for the unfortunately happend prices by us . We are Assuring that the mistake won't occur again.

Request you to do the needful in this regard.

Yours Sincerely,

Annapurna A

8978854777.

> On 12/01/2022 4:34 PM IST Annapurna Aditi Solar <marketing@aditisolar.in> wrote:
>
> Dear Sir,
>
> As per the subjected tender we are unable to do the work as rates quoted by us and we are asking apology for this action
>
> We, Aditi Solar Pvt. Ltd requesting you to we had made a mistake in price bid Quoting that we have quoted in BOQ1 as Per KW rate , Not the Total amount of the rate. Where as in BOQ2 rate we have taken per KW rate , by taking this consideration we have quoted in BOQ1 as per KW rate. Please excuse us for this regarding and we never been trying to lower the rates as we are always prefer quality against price.
>
> We are asking apology on subjected tender we are not ready to do this work as we are unable to do with in the rates quoted by us . So we could not able to provide the systems with these rates. Please Excuse us in this regard. Please don't consider our prices. Request you to please consider our request and do the needful.
>
> With Regards,
>
> Annapurna A,
>
> 8978854777.

On 12/01/2022 1:48 PM IST Annapurna Aditi Solar <marketing@aditisolar.in> wrote:

Dear Sir,

We are asking apology about the trailing mail on subjected tender as we have made a mistake in quoting price bid and we are not ready to do these prices

as we maintain quality based products. So we could not able to provide the systems with these rates. Please Excuse us in this regard. Please

don't consider our prices and request you to consider L2 price as L1.

Request you to please consider our apology and do the needful

With Regards,

Annapurna A

8978854777

> On 12/01/2022 10:45 AM IST Annapurna Aditi Solar <marketing@aditisolar.in> wrote:
>
> Dear Sir,
>
> We , Aditi Solar requesting you to we had made a mistake in pricebid that we have quoted in BOQ1 as Per KW rate , Not Total amount of the rate.
>
> Where as in BOQ2 rate we have taken per KW rate , by taking this consideration we have quoted in BOQ1 as per KW rate.Please excuse us for this
>
> regarding and we never been trying to lower the rates as we are always prefer quality against price.
>
> So Request you to don't consider our rate in BOQ1 by Aditi Solar and consider only BOQ2 rate. Please give us chance to work with you esteemed
>
> organisation.
>
> With Regards,
>
> Annapurna A
>
> 8978854777

> On 11/25/2022 12:03 PM IST Annapurna Aditi Solar <marketing@aditisolar.in> wrote:
>
> Dear Sir,
>
> Thank you for writing us, Please find the attachments as per the trailing mail requirement.
>
> > On 11/23/2022 6:22 PM IST Jayakumar R <jayakumar@anert.in> wrote:
> >
> > Sir,
> > While evaluating the technical bid you submitted against the tender mentioned above, we are seeking some clarifications on the points mentioned

below in order to avoid rejection of your bid. Your reply should reach us by e-mail on or before 25th Nov.2022, 6 pm.

I. Declaration regarding non-black listing as per format A should be provided on Rs.200/- Stamp paper
II. Annexure B- shall be provided in Rs. 200/- stamp paper
III. Format B- Power of attorney should be submitted on Rs.200/- Stamp paper
IV. Need to declare whether the Panel & cell are indigenously manufactured (DCR Content) or not. (Refer Technical Corrigendum-5, Point#2).
V. Provide IS certificate of the prescribed models of the INVERTER
VI. Information regarding service center should be provided as per the tender clause # 10.1.4, clause # 15.1, and annexure A point #9.

--
JAYAKUMAR R
Joint Chief Technical Manager &
Nodal officer PM-KUSUM programme
ANERT(HQ)
Thiruvananthapuram
Kerala.695 033
0471-2338077, 2334122, 2331803,
9188119425

With Regards,

Annapurna A
Aditi Solar Private Limited,
Plot No.17,Road No.11,
ALEAP Industrial Estate,
Gajularamaram Village,
Quthbullapur Mandal,
Medchal District,
Hyderabad - 500090.
Telengana State
Ph.No:+918978854777

Name of Work : Rate Contract for the Solarisation of Grid Connected Agricultural Pumps of cumulative capacity of 9,348 nos ranging from 2kW-150kW under the PM-KUSUM scheme (Component-C) in the State of Kerala							
Contract No: ANERT-TECH/144/2022-T4							
Sl.No	Capacity	Aditi Solar Private Limited	Tata Power Solar	SUNTASTIC ENGINEERING PRIVATE LIMITED	Rajasthan Electronics Instruments Ltd, Jaipur	SIRIUS SOLAR ENERGY SYSTEMS PVT LTD	Suryam Internatinal private Limited
1	Total cost for the SIC of 2 kW SPV Power plant	66,624	2,51,498	2,61,740	2,70,000	3,11,439	3,21,887
2	Total cost for the SIC of 3 kW SPV Power plant	66,624	3,01,570	3,17,502	3,99,000	3,82,937	4,48,699
3	Total cost for the SIC of 5 kW SPV Power plant	64,968	4,64,304	4,89,340	5,65,000	5,42,712	6,70,083
4	Total cost for the SIC of 7 kW SPV Power plant	61,106	5,35,998	5,81,518	10,50,000	7,55,620	9,72,649
5	Total cost for the SIC of 10 kW SPV Power plant	61,106	7,73,840	8,40,982	10,50,000	9,79,590	10,44,631

Rates incl GST

Seem to be per kW

Sl.No	Capacity	Aditi Solar Private Limited	SUNTASTIC ENGINEERING PRIVATE LIMITED	Suryam Internatinal private Limited
1	Cost per kW for 30 kW to 99 kW or part there of	56,555	73,936	87.11
2	Cost per kW for 100 kW to 150 kW or part there of	56,555	71,384	82.56

Rates incl GST

Seem to be per W

DETAILS EPCs EMPANELLED AND ITS ICRA RATING TOTAL VOLUME THAT CAN BE ALLOTTED IN A BATCH

Sl No	Company Name	ICRA rating	Total capacity in kW by batch	Maximum single plant capacity (kW)
1	M/s. Tata Power Solar Systems LIMITED	1B	3500	2000
2	M/s.Moopens Energy Solutions Pvt Ltd	1B	3500	2000
3	M/s. INKEL Limited	1C	1000	250
4	M/s. Kondaas Automation Private Limited	2B	2000	250
5	M/s. Suryam International Private Ltd	2B	2000	250
6	M/s Suntastic Engineering Pvt.Limited	2C	1000	200
7	M/s. KC KOPAR ENERGY SOLUTIONS PRIVATE LIMITED	2C	1000	200
8	M/s. Inforce Engineering solutions	3C	300	50
9	M/s. K C P Solar Industry	1C	1000	250
10	M/s. B S Energy Innovations	3C	300	50
11	M/s. A J Infra solutions	2C	1000	200
12	M/s. Adithya Innovations	3B	500	100
13	M/s. BSS Community industries	2B	2000	250
14	M/s. Coopa Energy	3B	500	100
15	M/s. Maxgreen infrastructure and renewables Pvt. Ltd	2C	1000	200
16	M/s. POM systems and services Pvt. Ltd	2C	1000	200
17	M/s. Softrays Power Solutions	2C	1000	200

18	M/s. Solgen Energy Pvt. Ltd	2C	1000	200
19	M/s. USHA ELECTRONICS SYSTEMS	2C	1000	200

Work Order value and capacity

EPC	NTP NO/Work order no.	No . Of Sites	kW	NTP Value/Work order value
M/s. Tata Power Solar Systems LIMITED	1	30	107	7362228
	2	1	75	5377050
	3	25	63	6746921
	4	20	136	11597860
	5	45	195	18152394
M/s Suntastic Engineering Pvt.Limited	1	24	60	6296788
	2	33	93	9367696
	3	13	41	4244193
	4	49	253	22586649
	5	20	95	8572821
	6	101	469	43908605
	7	18	40	4667440
	8	17	45	4769285
	9	2	100	7151850
	10	1	50	3567150
	11	12	43	4310550
	12	10	40	3229511
	13	15	33	3836449
	14	5	10	1149910
	15	21	52	5618231
	16	34	94	981756
	17	43	88	10316406
	18	48	124	13229508
	19	15	135	10653750
	20	15	61	5480154
	21	23	188	15084312
	22	9	18	2197294
	23	21	136	11635352
	24	13	35	3685006
	25	8	40	3695152
	26	18	44	4889417
	27	8	41	3695496
	28	6	44	3647542

	29	16	38	4215872
M/s. Kondaas Automation Private Limited	1	20	114	9310687
	2	2	10	923788
	3	25	112	10365365
	4	19	135	11190679
	5	39	257	21841937
	6	18	41	4625831
	7	17	47	5043290
	8	54	159	16865548
	9	13	33	3703883
	10	37	93	10450081
	11	24	68	7335816
	12	42	135	14022870
	13	21	65	6806439
	14	45	107	11749948
	15	48	131	14227353
	16	30	90	9358940
	17	29	58	7142886
	18	9	69	5688774
	19	12	45	4441619
	20	29	215	17900592
	21	7	29	2805850
	22	16	34	4052842
	23	14	96	8129354
	24	37	90	10205277
	25	41	304	25198843
M/s.Moopens Energy Solutions Pvt Ltd	1	10	29	2905664
	2	12	33	3450216
	3	19	54	5464925
	4	10	32	3455909
M/s. KC KOPAR ENERGY SOLUTIONS PRIVATE LIMITED	1	6	28	2587968
	2	24	81	8067634
	3	25	98	9215126
	4	17	72	6876953
	5	31	116	11540562
	6	15	33	3936554
	7	11	27	3040804
	8	49	107	12226117
	9	34	72	8017112
	10	34	93	9389795
	11	22	67	6456774
	12	45	135	12986789
	13	12	40	3788033
	14	6	15	1602739
	15	10	52	4660158
	16	29	147	13106540

	17	13	39	3688715
M/s. Suryam International Private Ltd	1	38	120	11837380
	2	27	74	7617951
	3	137	331	35460744
	4	64	197	20766763
	5	48	105	11718781
	6	82	183	20320900
	7	53	111	12498856
	8	88	207	22807321
	9	54	114	13410884
M/s. A J Infra solutions	1	27	90	9151092
	2	31	127	12063677
	3	10	70	5930040
	4	46	92	11416740
	5	71	355	32794474
	6	105	210	26059950
	7	48	96	11913120
	8	146	357	40752400
	9	28	93	9563773
	10	78	228	24487716
	11	90	372	34860447
	12	44	100	11428806
	13	86	438	39701144
	14	60	197	19180873
	15	59	118	14643210
	16	11	33	3242581
	17	100	398	38180546
M/s. B S Energy Innovations	1	26	61	6719757
	2	9	19	2265507
	3	27	58	6644516
	4	16	80	7300412
M/s. K C P Solar Industry	1	44	133	13799251
	2	47	151	15395655
	3	24	71	7368774
	4	27	68	7062513
	5	27	77	8231890
	6	7	16	1837340
	7	47	131	14086827
	8	36	92	10284485
	9	27	61	7032879
Coopa Energy	1	19	50	5263073
	2	38	87	9371265
	3	17	43	4514644
	4	17	48	4851870
M/s. Softrays Power Solutions	1	48	120	12619273
M/s. Adithya Innovations	1	6	12	1452724

M/s. BSS Community industries	1	20	49	5172154
	2	50	109	12181831
M/s. POM systems and services Pvt. Ltd	1	5	11	1217459
19 M/s. USHA ELECTRONICS SYSTEMS	1	38	84	9207596
	2	35	111	10916997
TOTAL		**4109**	**13551**	**1342383038**

KUSUM Tender Summary

Ground Mounted

Sl.No	Capacity	INKEL LIMITED	KC COPAR ENERGY SOLUTIONS (P) LTD	SUNTASTIC ENGINEERING PRIVATE LIMITED	Suryam Internatinal private Limited	Kondaas Automation Private Limited	Tata Power Solar	Moopens Energy Solutions Pvt Lt
1.01	Total cost for the SIC of 2 kW SPV Power plant	2,61,740	2,75,453	2,48,084	2,57,188	**2,35,270**	2,48,190	2,53,319
1.02	Total cost for the SIC of 3 kW SPV Power plant	3,47,090	3,39,489	3,00,773	3,17,502	**2,85,456**	2,98,195	3,06,168
1.03	Total cost for the SIC of 5 kW SPV Power plant	5,30,986	5,11,505	4,61,459	4,83,650	**4,44,207**	4,61,894	4,72,156
1.04	Total cost for the SIC of 7 kW SPV Power plant	6,65,880	6,09,060	***5,32,925***	6,21,348	**5,64,289**	5,93,004	6,10,594
1.05	Total cost for the SIC of 10 kW SPV Power plant	8,99,671	8,74,534	7,67,353	8,30,740	**7,34,078**	7,68,873	7,91,820
1.06	Cost per kW for the SIC of SPV Power plants in the range of 30 kW - 99 kW or part therof	*79,080*	*76,483*	*72,832*	*71,694*	***71,343***	*78,727*	*83,962*
1.07	Cost per kW for the SIC of SPV Power plants in the range of 100 kW - 150 kW or part therof	*78,820*	*71,383*	*71,694*	*72,832*	***70,266***	*78,272*	*83,359*

Rooftop

Sl.No	Capacity	INKEL LIMITED	KC COPAR ENERGY SOLUTIONS (P) LTD	SUNTASTIC ENGINEERING PRIVATE LIMITED	Suryam Internatinal private Limited	Kondaas Automation Private Limited	Tata Power Solar	Moopens Energy Solutions Pvt Lt
1.01	Total cost for the SIC of 2 kW SPV Power plant	No Separate Quote	No Separate Quote	2,31,697	No Separate Quote	2,57,074	**2,29,982**	2,35,748
1.02	Total cost for the SIC of 3 kW SPV Power plant			2,80,631		3,07,533	**2,79,413**	2,85,018
1.03	Total cost for the SIC of 5 kW SPV Power plant			4,38,699		4,70,700	**4,31,930**	4,43,194
1.04	Total cost for the SIC of 7 kW SPV Power plant			5,58,417		6,09,501	**5,47,137**	5,64,710
1.05	Total cost for the SIC of 10 kW SPV Power plant			7,21,492		7,91,638	**7,13,457**	7,31,165
1.06	Cost per kW for the SIC of SPV Power plants in the range of 30 kW - 99 kW or part therof			69,418		**74,933**	No separate Quote	83,506
1.07	Cost per kW for the SIC of SPV Power plants in the range of 100 kW - 150 kW or part therof			68,280		**73,608**		83,188

eTendering System Government of Kerala
Created By: Vinay P
Created Date/Time: 29-Dec-2022 05:09 PM
Tender Title: Rate Contract for the Solarisation of 9,348 Nos Grid Connected Agricultural Pumps ranging from 2kW - 150 kW under the PM-KUSUM scheme (Component-C) in the State of Kerala
Tender ID: 2022_ANERT_504042_2

Tender Inviting Authority: Director,ANERT

Name of Work : Rate Contract for the Solarisation of 9,348 Nos Grid Connected Agricultural Pumps ranging from 2 kW-150 kW under the PM

Contract No: ANERT-TECH/144/2022-T4

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	INKEL LIMITED(GSTN-32AABCI6802JIZT)		KC COPAR ENERGY SOLUTIONS (P) LTD(GSTN-32AACCK9259L2Z4)		SUNTASTIC ENGINEERING PRIVATE LIMITEDD(GSTN-NA)		Suryam Internatinal private Limited(GSTN-NA)		Kondaas Automation Private Limited(GSTN-NA)		Tata Power Solar(GSTN-NA)		Moopens Energy Solutions Pvt Ltd(GSTN-NA)		L1 Amount	L1 Vendor
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount		
1.00	Rate Contract for the Solarisation of 9,348 Nos Grid Connected Agricultural Pumps ranging from 2 kW-150 kW under the PM-KUSUM scheme (Component-C) in the State of Kerala Group - 1																			
1.01	Total cost for the SIC of 2 kW SPV Power plant meeting all the specifications as per tender	1.00	Nos	0.00	230000.00	230000.00	242050.00	242050.00	218000.00	218000.00	226000.00	226000.00	206740.00	206740.00	218093.00	218093.00	222600.00	222600.00	206740.00	Kondaas Automation Private Limited
1.02	Total cost for the SIC of 3 kW SPV Power plant meeting all the specifications as per tender	1.00	Nos	0.00	305000.00	305000.00	298321.00	298321.00	264300.00	264300.00	279000.00	279000.00	250840.00	250840.00	262034.00	262034.00	269040.00	269040.00	250840.00	Kondaas Automation Private Limited
1.03	Total cost for the SIC of 5 kW SPV Power plant meeting all the specifications as per tender	1.00	Nos	0.00	466596.00	466596.00	449477.00	449477.00	405500.00	405500.00	425000.00	425000.00	390340.00	390340.00	405882.00	405882.00	414900.00	414900.00	390340.00	Kondaas Automation Private Limited
1.04	Total cost for the SIC of 7 kW SPV Power plant meeting all the specifications as per tender	1.00	Nos	0.00	585132.00	585132.00	535202.00	535202.00	468300.00	468300.00	546000.00	546000.00	495860.00	495860.00	521093.00	521093.00	536550.00	536550.00	468300.00	SUNTASTIC ENGINEERING PRIVATE LIMITEDD
1.05	Total cost for the SIC of 10 kW SPV Power plant meeting all the specifications as per tender	1.00	Nos	0.00	790572.00	790572.00	768483.00	768483.00	674300.00	674300.00	730000.00	730000.00	645060.00	645060.00	675635.00	675635.00	695800.00	695800.00	645060.00	Kondaas Automation Private Limited
	Total in Figures					2377300.00		2293533.00		2030400.00		2206000.00		1988840.00		2082737.00		2138890.00		

Lowest Amount Quoted BY: Kondaas Automation Private Limited(1988840.00)

eTendering System Government of Kerala
Created By: Vinay P
Created Date/Time: 29-Dec-2022 05:09 PM
Tender Title: Rate Contract for the Solarisation of 9,348 Nos Grid Connected Agricultural Pumps ranging from 2kW - 150 kW under the PM-KUSUM scheme (Component-C) in the State of Kerala
Tender ID: 2022_ANERT_504042_2

Tender Inviting Authority: Director,ANERT

Name of Work : Rate Contract for the Solarisation of 9,348 Nos Grid Connected Agricultural Pumps ranging from 2 kW-150 kW under the PM-K

Contract No: ANERT-TECH/144/2022-T4

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	INKEL LIMITED(GSTN-32AABCI6802JIZT)		KC COPAR ENERGY SOLUTIONS (P) LTD(GSTN-		SUNTASTIC ENGINEERING PRIVATE LIMITEDD(GSTN-NA)		Suryam Internatinal private Limited(GSTN-NA)		Kondaas Automation Private Limited(GSTN-NA)		Tata Power Solar(GSTN-NA)		Moopens Energy Solutions Pvt Ltd(GSTN-NA)		L1 Amount	L1 Vendor
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount		
1.00	Rate Contract for the Solarisation of 9,348 Nos Grid Connected Agricultural Pumps ranging from 2 kW-150 kW under the PM-KUSUM scheme (Component-C) in the State of Kerala Group - 2																			
1.01	Cost per kW for the SIC of SPV Power plants in the range of 30 kW - 99 kW or part therof	1.00	Nos	0.00	69490.00	69490.00	67208.00	67208.00	64000.00	64000.00	63000.00	63000.00	62692.00	62692.00	69180.00	69180.00	73780.00	73780.00	62692.00	Kondaas Automation Private Limited
1.02	Cost per kW for the SIC of SPV Power plants in the range of 100 kW - 150 kW or part therof	1.00	Nos	0.00	69262.00	69262.00	62727.00	62727.00	63000.00	63000.00	64000.00	64000.00	61745.00	61745.00	68780.00	68780.00	73250.00	73250.00	61745.00	Kondaas Automation Private Limited
	Total in Figures					138752.00		129935.00		127000.00		127000.00		124437.00		137960.00		147030.00		

Lowest Amount Quoted BY: Kondaas Automation Private Limited(124437.00)

Suryam International Pvt. Ltd.

Regd. Office: H/O-M.Shivaji, 2nd Lane Gandhi Nagar, Berhampur, Odisha, India-760001
Corp. Office: A-24, HIG Duplex,Phase-2, Ananta Vihar,Pokhariput, BBSR, Odisha-751020
E-mail: project@groupsurya.co.in / info@groupsurya.co.in / tender@groupsurya.co.in
Call us: +91 7440012105 / +91 7440012168

ADDITIONAL COSTS FOR GROUP-1 AND GROUP-2 ITEMS

12.18 The additional costs required for cabling, structural works etc for any excess quantity other than the standard installation mentioned in the tender document is to be quoted separately in letter head and is to be uploaded in the provision provided for uploading PDF document in the finance cover, the additional rates for each capacity range are to be quoted as follows:

- Per meter cost for DC Cable for Installations under Group 1 & 2 category
- Per meter cost for AC Cabling for Installations under Group 1 category
- Per meter cost for AC Cabling for Installations under Group 2 category
- Cost for additional Structure for increase in height of above 1m from the standard height / kW
- Cost for additional Structure for increase in height of above 2m from the standard height / kW
- Cost for additional Structure for Rooftop installation in slanting GI or Aluminium sheet roof / kW
- Any other component required in excess to be quoted in per unit cost of that component

Sl. No.	Items	Rates for Categories		Remarks
		Group-1	Group-2	
1.	Per meter cost for DC Cable for Installations	Rs. 200	Rs. 250	As per Requirement
2.	Per meter cost for AC Cabling for Installations	Rs. 350	Rs. 500	As per Requirement
3.	Cost for additional Structure for increase in height of above 1m from the standard height / kW	Rs. 1500		As per Requirement
4.	Cost for additional Structure for increase in height of above 2m from the standard height / kW		Rs. 1750	As per Requirement
5.	Cost for additional Structure for Rooftop installation in slanting GI or Aluminium sheet roof / kW	Rs. 1000	Rs. 800	As per Requirement
6.	Any other component required in excess to be quoted in per unit cost of that component.	NA	NA	NA

SURYAM INTERNATIONAL PVT. LTD.

For Suryam International Private Limited

sunsenz GREEN LIFE
Corporate.off: Bldg.No. 2/159, Smart Tower, Muttom
Choornikara, Aluva 683106, Ernakulam, Kerala, India
Tel: +91484 262583, Mob : 09946788881 -86
www.sunsenz.com Email : contact@sunsenz.in
Moopens Energy Solutions Pvt. Ltd.

Name of the Bidder: - MOOPENS ENERGY SOLUTIONS PVT. LTD.

PRICE SCHEDULE

A) Price Schedule using Ground Mounted Structure

Sl. No.	Item Description	Estimated Rate in Figures To be Entered by the Bidder	GST Rate in Figures To be entered by the Bidder	Total Amount Without Taxes	Total Amount with Taxes
	Group -1				
1	Total Cost for the SIC of 2 kW SPV Power Plant meeting all the specifications as per tender	₹ 2,22,600.00	₹ 30,718.80	₹ 2,22,600.00	₹ **2,53,318.80**
2	Total Cost for the SIC of 3 kW SPV Power Plant meeting all the specifications as per tender	₹ 2,69,040.00	₹ 37,127.52	₹ 2,69,040.00	₹ **3,06,167.52**
3	Total Cost for the SIC of 5 kW SPV Power Plant meeting all the specifications as per tender	₹ 4,14,900.00	₹ 57,256.20	₹ 4,14,900.00	₹ **4,72,156.20**
4	Total Cost for the SIC of 7 kW SPV Power Plant meeting all the specifications as per tender	₹ 5,36,550.00	₹ 74,043.90	₹ 5,36,550.00	₹ **6,10,593.90**
5	Total Cost for the SIC of 10 kW SPV Power Plant meeting all the specifications as per tender	₹ 6,95,800.00	₹ 96,020.40	₹ 6,95,800.00	₹ **7,91,820.40**

Group 2

1	Cost per kW for the SIC of SPV Power Plants in the range of 30 kW - 99 kW or part thereof	₹ 73,780.00	₹ 10,181.64	₹ 73,780.00	₹ **83,961.64**
2	Cost per kW for the SIC of SPV Power Plants in the range of 100 kW - 150 kW or part thereof	₹ 73,250.00	₹ 10,108.50	₹ 73,250.00	₹ **83,358.50**

sunsenz GREEN LIFE
Corporate.off: Bldg.No. 2/159, Smart Tower, Muttom
Choornikara, Aluva 683106, Ernakulam, Kerala, India
Tel: +91484 262583, Mob : 09946788881 -86
www.sunsenz.com Email : contact@sunsenz.in
Moopens Energy Solutions Pvt. Ltd.

B) Price Schedule using Roof top Structure

Sl. No.	Item Description	Estimated Rate in Figures To be Entered by the Bidder	GST Rate in Figures To be entered by the Bidder	Total Amount Without Taxes	Total Amount with Taxes
	Group -1				
1	Total Cost for the SIC of 2 kW SPV Power Plant meeting all the specifications as per tender	₹ 2,07,160.00	₹ 28,588.08	₹ 2,07,160.00	₹ **2,35,748.08**
2	Total Cost for the SIC of 3 kW SPV Power Plant meeting all the specifications as per tender	₹ 2,50,455.00	₹ 34,562.79	₹ 2,50,455.00	₹ **2,85,017.79**
3	Total Cost for the SIC of 5 kW SPV Power Plant meeting all the specifications as per tender	₹ 3,89,450.00	₹ 53,744.10	₹ 3,89,450.00	₹ **4,43,194.10**
4	Total Cost for the SIC of 7 kW SPV Power Plant meeting all the specifications as per tender	₹ 4,96,230.00	₹ 68,479.74	₹ 4,96,230.00	₹ **5,64,709.74**
5	Total Cost for the SIC of 10 kW SPV Power Plant meeting all the specifications as per tender	₹ 6,42,500.00	₹ 88,665.00	₹ 6,42,500.00	₹ **7,31,165.00**

Group 2

1	Cost per kW for the SIC of SPV Power Plants in the range of 30 kW - 99 kW or part thereof	₹ 73,380.00	₹ 10,126.44	₹ 73,380.00	₹ **83,506.44**
2	Cost per kW for the SIC of SPV Power Plants in the range of 100 kW - 150 kW or part thereof	₹ 73,100.00	₹ 10,087.80	₹ 73,100.00	₹ **83,187.80**

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Moopens Energy Solutions Pvt. Ltd.

Rate for Extra Items if required

Sl No	Item Description	Estimated Rate in Figures
1	Per meter cost for DC cabling for installations under group 1 (3-5KW) Category	₹ 250
2	Per meter cost for DC cabling for installations under group 1 (7-10KW) Category	₹ 450
3	Per meter cost for DC cabling for installations under group 2 (30-50KW) Category	₹ 1,650
4	Per meter cost for DC cabling for installations under group 2 (70-99KW) Category	₹ 3,250
5	Per meter cost for DC cabling for installations under group 2 (100-150KW) Category	₹ 5,000
6	Per meter cost for AC cabling for installations under group 1 (3-5KW) Category	₹ 200
7	Per meter cost for AC cabling for installations under group 1 (7-10KW) Category	₹ 400
8	Per meter cost for AC cabling for installations under group 2 (30-50KW) Category	₹ 900
9	Per meter cost for AC cabling for installations under group 2 (70-99KW) Category	₹ 1,200
10	Per meter cost for AC cabling for installations under group 2 (100-150KW) Category	₹ 1,800
11	Cost for additional structure for increase in height of above 1 m from the standard height/KW	₹ 2,400
12	Cost for additional structure for increase in height of above 2 m from the standard height/KW	₹ 5,000
13	Cost for additional structure for rooftop installation in slanting GI or Aluminium sheet roof/KW	₹ 9,850

MOOPENS ENERGY SOLUTIONS PVT. LTD. MUTTOM ALUVA 683 106

Mohammed Fayaz Salam

CEO & Director,

Moopens Energy Solutions Pvt Ltd.

SUNTASTIC ENGINEERING PRIVATE LIMITED
(Formerly Suntastic Solar Systems Private Limited)
Class I Contractor - PWD, TN Highways and Corporation
Business in Solar, Construction, Engineering, Trading

Tender Inviting Authority : Director, ANERT

Name of Work : Rate Contract for the Solarisation of Grid Connected Agricultural Pumps of cumulative capacity of 9,348 nos ranging from 2kW 150kW under the PM KUSUM scheme (Component C) in the State of Kerala

Name of Bidder : M/s. Suntastic Engineering Private Limited.

Item Description (in Rs)	Basic Rate (in Rs)	GST (in Rs)	Total Price (in Rs)
Per meter cost of DC Cable for installation under Group 1 &2 category; Spec: 1C, 4 Sq.mm	Rs. 150.00	Rs. 27.00	Rs. 177.00
Per meter cost of AC Cable for installation under Group 1 category; Spec: 3c; 4Sq.mm	Rs. 150.00	Rs. 27.00	Rs. 177.00
Per meter cost of AC Cable for installation under Group 1 category; Spec: 3c; 6 Sq.mm	Rs. 250.00	Rs. 45.00	Rs. 295.00
Per meter cost of AC Cable for installation under Group 2 category; Spec: 4C; 4 Sq.mm	Rs. 350.00	Rs. 63.00	Rs. 413.00
Cost for Additional structure for increase in height above 1 m from the standard height / KW	Rs. 4000.00	Rs. 720.00	Rs. 4720.00
Cost for Additional structure for increase in height above 2 m from the standard height / KW	Rs .8000.00	Rs. 1140.00	Rs. 9140.00
Cost for Additional structure for rooftop installation in slanting GI / Aluminium sheet roof per KW	Rs. 5000.00	Rs. 900	Rs. 5900.00
CAT 6 Cable for RMU	Rs. 100.00	Rs. 18.00	Rs. 118.00
RS 485 Cable	Rs. 250.00	Rs.45.00	Rs. 295.00
Electric Pole	Rs. 16000.00	Rs. 2880.00	Rs. 18880.00

For SUNTASTIC ENGINEERING PVT. LTD

Chief Executive Officer

No.69/27A, First Pilliayar Koil St, Lakshmipuram, Chrompet, Chennai - 600044
Conatct : +91 8939838052/58 Mail : suntasticengineering@gmail.com
Web : www.suntasticsolarsystems.com GST : 33AAXCS4958B1ZZ

SUNTASTIC ENGINEERING PRIVATE LIMITED
(Formerly Suntastic Solar Systems Private Limited)
Class I Contractor - PWD, TN Highways and Corporation
Business in Solar, Construction, Engineering, Trading

Tender Inviting Authority : Director, ANERT

Name of Work : Rate Contract for the Solarisation of Grid Connected Agricultural Pumps of cumulative capacity of 9,348 nos ranging from 2kW 150kW under the PM KUSUM scheme (Component C) in the State of Kerala

Name of Bidder : M/s. Suntastic Engineering Private Limited.

ROOF TOP MOUNTED SOLAR POWER PLANT

Group 1:

Item Description (in Rs)	Basic Rate (in Rs)	GST (in Rs)	Total Amount Without Tax (in Rs)	Total Amount With Tax (in Rs)
Total cost for the SIC 2KW SPV Power plant meeting all the specifications as per the Tender	203600.00	28096.80	203600.00	231696.80
Total cost for the SIC 3KW SPV Power plant meeting all the specifications as per the Tender	246600.00	34030.80	246600.00	280630.80
Total cost for the SIC 5KW SPV Power plant meeting all the specifications as per the Tender	385500.00	53199.00	385500.00	438699.00
Total cost for the SIC 7KW SPV Power plant meeting all the specifications as per the Tender	490700.00	67716.60	490700.00	558416.60
Total cost for the SIC 10KW SPV Power plant meeting all the specifications as per the Tender	634000.00	87492.00	634000.00	721492.00

For SUNTASTIC ENGINEERING PVT. LTD

Chief Executive Officer

No.69/27A, First Pilliayar Koil St, Lakshmipuram, Chrompet, Chennai - 600044
Conatct : +91 8939838052/58 Mail : suntasticengineering@gmail.com
Web : www.suntasticsolarsystems.com GST : 33AAXCS4958B1ZZ

SUNTASTIC ENGINEERING PRIVATE LIMITED
(Formerly Suntastic Solar Systems Private Limited)
Class I Contractor - PWD, TN Highways and Corporation
Business in Solar, Construction, Engineering, Trading

Tender Inviting Authority : Director, ANERT

Name of Work : Rate Contract for the Solarisation of Grid Connected Agricultural Pumps of cumulative capacity of 9,348 nos ranging from 2kW 150kW under the PM KUSUM scheme (Component C) in the State of Kerala

Name of Bidder : M/s. Suntastic Engineering Private Limited.

ROOF TOP MOUNTED SOLAR POWER PLANT

Group 2:

Item Description (in Rs)	Basic Rate (in Rs)	GST (in Rs)	Total Amount Without Tax (in Rs)	Total Amount With Tax (in Rs)
Cost per KW for the SPV Power plant meeting in the range of 30KW to 99 KW or part there of	61000.00	8418.00	61000.00	69418.00
Cost per KW for the SPV Power plant meeting in the range of 100KW to 150 KW or part there of	60000.00	8280.00	60000.00	68280.00

For SUNTASTIC ENGINEERING PVT. LTD

Chief Executive Officer

No.69/27A, First Pilliayar Koil St, Lakshmipuram, Chrompet, Chennai - 600044
Conatct : +91 8939838052/58 Mail : suntasticengineering@gmail.com
Web : www.suntasticsolarsystems.com GST : 33AAXCS4958B1ZZ

kondaas
Since 1995

Kondaas Automation Pvt. Ltd.,
(An ISO 9001 : 2015 Certified Company)
5 B, Sri Alamelu Nagar,Kamarajar Road,Coimbatore 641 015
Phone : 0422- 2574000,5000,6000
email : info@kondaas.com URL: www.kondaas.com

Tender Inviting Authority : Director, ANERT

Name of Work : Rate Contract for the Solarisation of Grid Connected Agricultural Pumps of cumulative capacity of 9,348 nos ranging from 2kW 150kW under the PM KUSUM scheme (Component C) in the State of Kerala

Name of Bidder : M/s. Kondaas Automation Private Limited.

GROUND MOUNTED SOLAR POWER PLANT

Group 1:

Item Description (in Rs)	Basic Rate (in Rs)	GST (in Rs)	Total Amount Without Tax (in Rs)	Total Amount With Tax (in Rs)
Total cost for the SIC 2KW SPV Power plant meeting all the specifications as per the Tender	225900.00	31174.00	225900.00	257074.00
Total cost for the SIC 3KW SPV Power plant meeting all the specifications as per the Tender	270240.00	37293.12	270240.00	307533.12
Total cost for the SIC 5KW SPV Power plant meeting all the specifications as per the Tender	413620.00	57079.56	413620.00	470699.56
Total cost for the SIC 7KW SPV Power plant meeting all the specifications as per the Tender	535590.00	73911.42	535590.00	609501.42
Total cost for the SIC 10KW SPV Power plant meeting all the specifications as per the Tender	695640.00	95998.32	695640.00	791638.32

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Kondaas Automation Pvt. Ltd.,
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5 B, Sri Alamelu Nagar,Kamarajar Road,Coimbatore 641 015
Phone : 0422- 2574000,5000,6000
email : info@kondaas.com URL: www.kondaas.com

Tender Inviting Authority : Director, ANERT

Name of Work : Rate Contract for the Solarisation of Grid Connected Agricultural Pumps of cumulative capacity of 9,348 nos ranging from 2kW 150kW under the PM KUSUM scheme (Component C) in the State of Kerala

Name of Bidder : M/s. Kondaas Automation Private Limited.

GROUND MOUNTED SOLAR POWER PLANT

Group 2:

Item Description (in Rs)	Basic Rate (in Rs)	GST (in Rs)	Total Amount Without Tax (in Rs)	Total Amount With Tax (in Rs)
Cost per KW for the SPV Power plant meeting in the range of 30KW to 99 KW or part there of	65846.00	9086.74.00	65846.00	74932.74
Cost per KW for the SPV Power plant meeting in the range of 100KW to 150 KW or part there of	65682.00	8926.11	65682.00	73608.11

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5 B, Sri Alamelu Nagar,Kamarajar Road,Coimbatore 641 015
Phone : 0422- 2574000,5000,6000
email : info@kondaas.com URL: www.kondaas.com

Tender Inviting Authority : Director, ANERT

Name of Work : Rate Contract for the Solarisation of Grid Connected Agricultural Pumps of cumulative capacity of 9,348 nos ranging from 2kW 150kW under the PM KUSUM scheme (Component C) in the State of Kerala

Name of Bidder : M/s. Kondaas Automation Private Limited.

ROOF TOP MOUNTED SOLAR POWER PLANT

Group 1:

Item Description (in Rs)	Basic Rate (in Rs)	GST (in Rs)	Total Amount Without Tax (in Rs)	Total Amount With Tax (in Rs)
Total cost for the SIC 2KW SPV Power plant meeting all the specifications as per the Tender	206740.00	28530.12	206740.00	235270.12
Total cost for the SIC 3KW SPV Power plant meeting all the specifications as per the Tender	250840.00	34615.92	250840.00	285455.92
Total cost for the SIC 5KW SPV Power plant meeting all the specifications as per the Tender	390340.00	53866.92	390340.00	444206.92
Total cost for the SIC 7KW SPV Power plant meeting all the specifications as per the Tender	495860.00	68428.68	495860.00	564288.68
Total cost for the SIC 10KW SPV Power plant meeting all the specifications as per the Tender	645060.00	89018.28	645060.00	734078.28

Kondaas Automation Pvt. Ltd.,
(An ISO 9001 : 2015 Certified Company)
5 B, Sri Alamelu Nagar, Kamarajar Road, Coimbatore 641 015
Phone : 0422- 2574000,5000,6000
email : info@kondaas.com URL: www.kondaas.com

Tender Inviting Authority : Director, ANERT

Name of Work : Rate Contract for the Solarisation of Grid Connected Agricultural Pumps of cumulative capacity of 9,348 nos ranging from 2kW 150kW under the PM KUSUM scheme (Component C) in the State of Kerala

Name of Bidder : M/s. Kondaas Automation Private Limited.

ROOF TOP MOUNTED SOLAR POWER PLANT

Group 2:

Item Description (in Rs)	Basic Rate (in Rs)	GST (in Rs)	Total Amount Without Tax (in Rs)	Total Amount With Tax (in Rs)
Cost per KW for the SPV Power plant meeting in the range of 30KW to 99 KW or part there of	62692.00	8651.49	62692.00	71343.49
Cost per KW for the SPV Power plant meeting in the range of 100KW to 150 KW or part there of	61745.00	8520.81	61745.00	70265.81

Bid List

Print

Back

Bid ID :	1432643
Bidder Name:	Kondaas Automation Private Limited
Organisation Chain :	ANERT
Tender Ref No :	ANERT-TECH/144/2022-T4
Tender ID :	2022_ANERT_504042_2
Tender Title :	Rate Contract for the Solarisation of 9,348 Nos Grid Connected Agricultural Pumps ranging from 2kW - 150 kW under the PM-KUSUM scheme (Component-C) in the State of Kerala
Bid Submitted Date & Time :	20-Dec-2022 12:23 PM

Corporate Tenderer Details

Login ID	kerala@kondaas.com	User Type	Corporate/Bidder
Company Name/License Holder Name	Kondaas Automation Private Limited	Registration Number	181-6213
Registered Address	No 5B, Sri Alamelu Nagar, Kamarajar Road, Coimbatore - 641015	Name of Partners / Directors	Sanjay Santhanakrishnan
City	Coimbatore	State	Tamil Nadu
Postal Code	641015	PAN Number	AAACK7337F
Company's Establishment Year(yyyy)	1995	Company's Nature of Business	UPS BATTERY AND SOLAR PRODUCTS
Company's Legal Status	Limited Company	Company Category	Small Unit as per MSME
Title	Mr	Contact Name	RAVI
DOB (Date Of Birth)	06-Apr-1977	Designation	HEAD - TENDER DIVISION
Correspondence Email	kondaasdealers@gmail.com	Phone	91-0422-2574000
Mobile	91-9245725603		

Tender Fee Exemption Details

S.No	* Tender Fee (Incl. Tax) in ₹ (A)	Tender Fee (Excl. Tax) in ₹ (B)	Availed Exemption in ₹ (C)	Fee Exemption Type	To Be Paid Amount in ₹ (A-C)	Fee Exemption Certificate
1	15000.00	15000.00	15000.00	FIXED	0.00	MSME.pdf
				Total in ₹:	**0.00**	

EMD Exemption Details

S.No	Emd Amount in ₹	Emd Exemption Type	Availed Exemption in ₹	To Be Paid Amount in ₹	EMD Exemption Certificate
1	500000.00	FIXED	500000.00	0.00	MSME.pdf
			Total in ₹:	**0.00**	

Bid Documents

S.No	Packet Type	File Name	Description	File Size (KB)	File Hash
1	Fee/PreQual/Technical	PDQ.pdf	PQ Documents including Financials and Experience	10937.00	cN9YBWLYTAdw/scBhq8sM5QDscQ=
		PREAGREEMENT.pdf	Pre-Agreement and Signed tender document	4804.00	t0/b3a3+X0FJttEuCXcsk79DBCc=
		TECHNICAL.pdf	Technical Bid	27180.00	/7On6WddA0qq+wIyK/d4GQvA6M8=
		OTHERDOCUMENT.pdf	Any other documents	6740.00	of1RaxagQ1pC2W74kpETyj6DNt0=
2	Finance	BOQ_784136.xls	Financial Bid	268.00	M24irAbt6RMUtxPu23PCSUdtSo4=

		BOQ.pdf	Financial Bid (in Letter Head)	278.00	v21EWbaOGp4/7B0lbdBjtCvWTPw=

Kondaas Automation Pvt. Ltd.,
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Phone : 0422- 2574000,5000,6000
email : info@kondaas.com URL: www.kondaas.com

Tender Inviting Authority : Director, ANERT

Name of Work : Rate Contract for the Solarisation of Grid Connected Agricultural Pumps of cumulative capacity of 9,348 nos ranging from 2kW 150kW under the PM KUSUM scheme (Component C) in the State of Kerala

Name of Bidder : M/s. Kondaas Automation Private Limited.

GROUND MOUNTED SOLAR POWER PLANT

Group 1:

Item Description (in Rs)	Basic Rate (in Rs)	GST (in Rs)	Total Amount Without Tax (in Rs)	Total Amount With Tax (in Rs)
Total cost for the SIC 2KW SPV Power plant meeting all the specifications as per the Tender	225900.00	31174.00	225900.00	257074.00
Total cost for the SIC 3KW SPV Power plant meeting all the specifications as per the Tender	270240.00	37293.12	270240.00	307533.12
Total cost for the SIC 5KW SPV Power plant meeting all the specifications as per the Tender	413620.00	57079.56	413620.00	470699.56
Total cost for the SIC 7KW SPV Power plant meeting all the specifications as per the Tender	535590.00	73911.42	535590.00	609501.42
Total cost for the SIC 10KW SPV Power plant meeting all the specifications as per the Tender	695640.00	95998.32	695640.00	791638.32

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Tender Inviting Authority : Director, ANERT

Name of Work : Rate Contract for the Solarisation of Grid Connected Agricultural Pumps of cumulative capacity of 9,348 nos ranging from 2kW 150kW under the PM KUSUM scheme (Component C) in the State of Kerala

Name of Bidder : M/s. Kondaas Automation Private Limited.

GROUND MOUNTED SOLAR POWER PLANT

Group 2:

Item Description (in Rs)	Basic Rate (in Rs)	GST (in Rs)	Total Amount Without Tax (in Rs)	Total Amount With Tax (in Rs)
Cost per KW for the SPV Power plant meeting in the range of 30KW to 99 KW or part there of	65846.00	9086.74.00	65846.00	74932.74
Cost per KW for the SPV Power plant meeting in the range of 100KW to 150 KW or part there of	65682.00	8926.11	65682.00	73608.11

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Phone : 0422- 2574000,5000,6000
email : info@kondaas.com URL: www.kondaas.com

Tender Inviting Authority : Director, ANERT

Name of Work : Rate Contract for the Solarisation of Grid Connected Agricultural Pumps of cumulative capacity of 9,348 nos ranging from 2kW 150kW under the PM KUSUM scheme (Component C) in the State of Kerala

Name of Bidder : M/s. Kondaas Automation Private Limited.

ROOF TOP MOUNTED SOLAR POWER PLANT

Group 1:

Item Description (in Rs)	Basic Rate (in Rs)	GST (in Rs)	Total Amount Without Tax (in Rs)	Total Amount With Tax (in Rs)
Total cost for the SIC 2KW SPV Power plant meeting all the specifications as per the Tender	206740.00	28530.12	206740.00	235270.12
Total cost for the SIC 3KW SPV Power plant meeting all the specifications as per the Tender	250840.00	34615.92	250840.00	285455.92
Total cost for the SIC 5KW SPV Power plant meeting all the specifications as per the Tender	390340.00	53866.92	390340.00	444206.92
Total cost for the SIC 7KW SPV Power plant meeting all the specifications as per the Tender	495860.00	68428.68	495860.00	564288.68
Total cost for the SIC 10KW SPV Power plant meeting all the specifications as per the Tender	645060.00	89018.28	645060.00	734078.28

Kondaas Automation Pvt. Ltd.,
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Phone : 0422- 2574000,5000,6000
email : info@kondaas.com URL: www.kondaas.com

Tender Inviting Authority : Director, ANERT

Name of Work : Rate Contract for the Solarisation of Grid Connected Agricultural Pumps of cumulative capacity of 9,348 nos ranging from 2kW 150kW under the PM KUSUM scheme (Component C) in the State of Kerala

Name of Bidder : M/s. Kondaas Automation Private Limited.

ROOF TOP MOUNTED SOLAR POWER PLANT

Group 2:

Item Description (in Rs)	Basic Rate (in Rs)	GST (in Rs)	Total Amount Without Tax (in Rs)	Total Amount With Tax (in Rs)
Cost per KW for the SPV Power plant meeting in the range of 30KW to 99 KW or part there of	62692.00	8651.49	62692.00	71343.49
Cost per KW for the SPV Power plant meeting in the range of 100KW to 150 KW or part there of	61745.00	8520.81	61745.00	70265.81

Finalized Prices

Ground Mounted

Sl. No	Capacity	INKEL LIMITED	KC COPAR ENERGY SOLUTIONS (P) LTD	SUNTASTIC ENGINEERING PRIVATE LIMITED	Suryam International private Limited	Kondaas Automation Private Limited	Tata Power Solar	Moopens Energy Solutions Pvt Lt
1	2 kW SPV Power plant	2,61,740	2,75,453	2,48,084	2,57,188	2,57,074	**2,48,190**	2,53,319
2	3 kW SPV Power plant	3,47,090	3,39,489	3,00,773	3,17,502	3,07,533	**2,98,195**	3,06,168
3	5 kW SPV Power plant	5,30,986	5,11,505	4,61,459	4,83,650	4,70,700	**4,61,894**	4,72,156
4	7 kW SPV Power plant	6,65,880	6,09,060	*5,32,925*	6,21,348	6,09,501	**5,93,004**	6,10,594
5	10 kW SPV Power plant	8,99,671	8,74,534	7,67,353	8,30,740	7,91,638	**7,68,873**	7,91,820
6	Cost per kW for 30 kW - 99 kW or part therof	*79,080*	*76,483*	*72,832*	***71,694***	74,933	*78,727*	*83,962*
7	Cost per kW for 100 kW - 150 kW or part therof	*78,820*	*71,383*	*71,694*	***72,832***	73,608	*78,272*	*83,359*

Rooftop Mounted

Sl. No	Capacity	INKEL LIMITED	KC COPAR ENERGY SOLUTIONS (P) LTD	SUNTASTIC ENGINEERING PRIVATE LIMITED	Surya m International private Limited	Kondaas Automation Private Limited	Tata Power Solar	Moopens Energy Solutions Pvt Lt
1	2 kW SPV Power plant	No Separate Quote	No Separate Quote	2,31,697	No Separate Quote	2,35,270	**2,29,982**	2,35,748
2	3 kW SPV Power plant			2,80,631		2,85,456	**2,79,413**	2,85,018
3	5 kW SPV Power plant			4,38,699		4,44,207	**4,31,930**	4,43,194
4	7 kW SPV Power plant			5,58,417		5,64,289	**5,47,137**	5,64,710
5	10 kW SPV Power plant			7,21,492		7,34,078	**7,13,457**	7,31,165
6	Cost per kW for 30 kW - 99 kW or part therof			69,418		***71,343***	No separate Quote	83,506
7	Cost per kW for 100 kW - 150 kW or part therof			68,280		***70,266***		83,188

12.3 Each bidder should submit only one (1) bid. Any bidder who submits/participates in more than one bid for the work shall be disqualified.

12.4 Price bid for the installation in SPV system inclusive of all requirements as per the document is to be quoted by the bidders and for the Group 1, the L1 rate for each system (2 - 10 kW) will be considered separately. In case of Group 2, prices are to be quoted in terms of Rate/kW (rates for PV capacity 30 -100 kW and capacity above 100 kW shall be quoted separately).

12.5 For evaluating the L1 price, only the rates quoted by the bidder having ICRA Grading of 1A, 1B, 1C, 2A & 2B will be considered. Vendors having lower grade are also eligible for participation in the tender, whereas their rates will not be considered for L1 rate finalisation. The allotment of works will also be based on the ICRA grading mentioned in this document.

12.6 It will be mandatory to use indigenously manufactured solar panels with indigenous solar cells and modules. Further, inverters/controllers and the Balance of System should also be manufactured indigenously. The contractor must declare the list of imported components used in the solarisation system.

12.7 If the bidder has NOT submitted the requisite EMD OR Agreement, OR if the price bid is not submitted along with the tender, such tenders will be summarily rejected.

12.8 During the tender evaluation, ANERT may seek more clarifications/details from any or all the tenderers, if felt necessary.

12.9 The price bids of the tenderers, who are technically qualified, will be opened and the L1 bidder as mentioned in clause #12.5 will be awarded the work of supply and installation of items after fulfilling all the requirements.

12.10 If found essential, ANERT reserves the right, in the interest of completion of work within the time limit, to award portion/portions of the work order to next higher bidders, called for negotiation in the increasing order of their price offers, if they agree to supply at the L1 price.

12.11 L1 bidder will get priority on allotting the work order.

File No.ANERT-ADM/28/2020-OA1(HRM)

അനെർട്ട്
ANERT
Agency for New and renewable Energy Research and Technology
പുനരുപയോഗ ഊർജ്ജ സാങ്കേതിക വിദ്യകൾക്കുള്ള ഏജൻസി
DEPARTMENT OF POWER, GOVERNMENT OF KERALA
Law College Road, PMG, Thiruvananthapuram 695033 • director@anert.in • www.anert.gov.in
Tel.: (+91-471) 2338077, 2334122, 2333124, 2331803 • Fax: (+91-471) 2329853

PROCEEDINGS OF THE Chief Executive Officer
(Present: Narendra Nath Veluri I F S)

Abstract

ANERT - Work distribution & routing of files – Approved – Orders issued – Reg
File no.: ANERT-ADM/28/2020-OA1(HRM)

A.O. No. 85/2021/ANERT 14/09/2021

ORDER

For administrative convenience, the following Works/Programms is hereby distributed among the officials of ANERT as follows.

Sl No.	Programme Description(Broad Classification)	Officer in – Charge	Session
1	Training and extension programme, including establishment of technology Hub at Palakkad. Handholding of local bodies for RE projects, Urjamithra service centers. Liaison with LSGD co-ordination committee. ACTM in charge of District offices .All meetings of EC and GB of ANERT. Any other Revenue generation projects under this portfolio without affecting Normal assigned work.	Jayachandran Nair P ACTM	T1
2	All type of Solar Rooftop projects under CAPEX, RESCO for Government and General Beneficiaries. .Empanelment of agencies, Fixing rate contract, component Listing, Grievance redressal of beneficiaries, Central and state subsidy programmes. Any other Revenue generation projects under this portfolio without affecting Normal assigned work.	Kala K G ACTM	T2
3	New technologies like Hydrogen, Fuel Cells, Co-ordination of Green Hydrogen project of Vizhinjam Port, Concentrated solar , All project related Solar Streetlight, Solar lanterns, Concentrated Solar , Solar Driers , Solar water heaters etc.		

AGENCY FOR NEW AND RENEWABLE ENERGY RESEARCH AND TECHNOLOGY ★ ANERT TVM

CHIEF EXECUTIVE OFFICER
ANERT

	Any other Revenue generation projects under this portfolio without affecting Normal assigned work.	Rajesh R ACTM	T3
4	Agricultural Pumps, including PM-KUSUM and related activities includes Tenders, Liaison with various stakeholder like MNRE, KSEBL, Agricultural, Department, Local bodies etc. Any other project supporting agriculture and farmers etc. Any other Revenue generation projects under this portfolio without affecting Normal assigned work	Jayakumar R JCTM	T4
5	Wind and Solar Resource assessment, preparation of Wind , Solar atlas for Kerala. Approval of wind projects by other proponents. Maintenance and up keeping of 2MW project at Kuzhalmandam. Liaison with KSERC, aggregation of potential area of solar wind hybrid projects. Organising presentations and webinars on new development in RE sector for technical staff of ANERT and public, Technical consultancy for Solar PV Projects. Any other Revenue generation projects under this portfolio without affecting Normal assigned work.	Ajith Gopi JCTM	T5
6	Distribution of EV on lease, EV Charging stations, Establishing ANERT's own EV sharing facility for Government and individuals. Finalising rate contract for Solar, small gadgets like Solar Street lights, Solar lanterns , domestic driers , Biogas plants etc.and listing the same in www.buymysun.com E-market place, Creating Business through E-Market place, Insurance schemes for Technicians, Employees , Hiring of Vehicle for field trips where Nexon(available electric car) Can't be used. Stores purchase and any other assigned by CEO from time to time. Any other Revenue generation projects under this portfolio without affecting Normal assigned work.	Manoharan J TM	T6
7	All IT related activities (e-office, Website, Buymy Sun, Server for inverters), REC & RPO. Establishing Wind Solar Hybrid at Ramakkalmedu. Implementation of Solar,wind projects on revenue sharing basis. Research and development work benefitting RE sector. Any other Revenue generation projects under this portfolio without affecting Normal assigned work.	Premkumar K Scientist	T7

CHIEF EXECUTIVE OFFICER
ANERT

8	Small Wind (up to 10KW). Exploring the possibility of making it hybrid with Solar Pumping scheme. Floating solar power plants technology demonstration, development and implementation of business models of floating Solar. Research and development work benefitting RE sector. Any other Revenue generation projects under this portfolio without affecting Normal assigned work.	Pramod N E Scientist	T8
9	Waste to Energy. Assessment and quantifying availability of waste and its energy content etc . Finalising appropriate technology for the state. Implementation of Waste Energy projects. Co-ordinating with local bodies for waste to energy conversion. (Especially Waste to Energy under Solar City) Research and development work benefitting RE sector. Any other Revenue generation projects under this portfolio without affecting Normal assigned work.	Valsaraj P Scientist	T9
10	Hydrogen for Green Transport. Green hydrogen generation, Deploying Hydrogen vehicles , liaison with other agencies working in this filed. Development solar induction cook stoves. Field testing and demonstration of such systems. Development of Solar gadgets supporting farmers and general public. Research and development work benefitting RE sector. Any other Revenue generation projects under this portfolio without affecting Normal assigned work.	Kamala Devi Scientist	T10
11	Supporting CEO in All project related activities. Co-ordination and review of activities of all divisions of Programme implementation. Liaison with HRM and Finance Divisions for project related activities. Managing projects other than listed and projects under ANERT 20-20 through project cell of CTM.	Chief Technical Manager	
12	Supporting CEO in All HRM activities of employees of ANERT. Follow up and getting approval of all HRM related files from Government. All non-technical activities like Processing LA and Parliament Questions, Correspondence other than technical matters. Providing manpower and administrative support to Programme implementation	General	

CHIEF EXECUTIVE OFFICER
ANERT

	division. Fixing terms and conditions for temporary appointment and support services. Supporting land acquisition, leasing, boundary marking getting clearance from authorities for land use. Maintenance and up keep head office building. Lease, rental or arranging office space for district offices from available government spaces. Distribution of Tapal based on this work order to concerned divisions. All communications not related to technical aspects to any departments of Government will be handled.	Manager HRM division	
13	Supporting CEO in Getting release of Plan and non- plan allocation in time. Preparation of audited statement of accounts and make it current. Managing all payments. Managing Central Finance Assistance . Handling PFMS and all online portal of state and central governments. Preparation and submission of Statement of expenditure and submission UC. Safe custody of all security documents like Bank guarantee, DD receipts etc. Financial planning of each year's requirements in advance. Helping Programme management division in fund mobilization . Providing monthly statements and forecasting of fund requirements etc. mobilizing fund through loan or crowd funding for income generation projects etc.	Chief Finance Officer Accounts & Finance Division	

The files will be routed as follows

1. All the papers received in office of ANERT should be received in Tapal section of ANERT and after the entering in tapal register they must be placed to GM for marking to various sections according to work that is assigned to each section, as defined above.
2. All technical/ files related to projects will be routed hereafter as follows.

   Section → CTM → CEO

3. The technical/ Project files dealing sanctioning finance to the various projects should be routed as follows.

   Section → CTM → CFO → CTM → CEO

4. The files dealing with manpower requirements be it technical or non-technical

CHIEF EXECUTIVE OFFICER
ANERT

with respect to projects should be routed as follows.

CTM → HRM → GM → CFO → CEO

5. All other files dealing non-technical subjects such as training of Employees, advertisement in print / Visual Media should also be routed as follows.

   Section → HRM → GM → CFO → CEO

6. All communications to Government and other Government agencies including judicial bodies with respect to administrative matters should be routed through HRM to CEO.
7. Any other papers that are not mentioned in the subject distribution are when there is ambiguity on whether matter is Technical/Non-technical/Finance, it shall be routed to CEO and CEO decision in this regard will be final.

Chief Executive Officer

1. All Officials of ANERT
2. CA to Director
3. Stock File

F. No. 318/331/2017-GCRT
Government of India
Ministry of New and Renewable Energy
***

Atal Akshay Urja Bhawan,
C.G.O Complex,
Lodhi Road, New Delhi-110003
Dated 27th January 2023

Office Memorandum

Subject: Admissibility of CFA for residential sector rooftop solar projects installed under Rooftop Solar Programme Phase-II

Ministry is implementing Rooftop Solar Programme Phase-II inter-alia providing Central Financial Assistance (CFA) for installation of Rooftop Solar (RTS) in the residential sector. The Programme is being implemented by DISCOMs/State Implementing Agencies.

2. National Portal (https://solarrooftop.gov.in/)for Rooftop Solar was launched on 30.7.2022. On the National Portal any residential consumer from any part of country can apply for installation of RTS and get CFA directly in his/her bank account. All the steps starting from application to release of CFA can be monitored by consumer online on the Portal. In the National Portal the CFA amount for the RTS capacity installed by a consumer is common for entire country which is as under:

i. Individual Household - For first 3 kW: Rs. 14588/ kW and for RTS capacity beyond 3 kW and upto 10 kW: Rs. 7294/kW.
ii. Resident Welfare Associations/Group Housing Societies (RWA/GHS) - Rs. 7294/kW for common facilities up to 500 kWp @ 10 kWp per house.

3. Ministry has got representation for providing higher CFA through National Portal in line with higher benchmark cost prescribed for North Eastern States and hilly States/UT. The request has been considered by Ministry and it has been decided to provide higher CFA for residential consumers of North Eastern States including Sikkim, Uttarakhand, Himachal Pradesh, UT of Jammu & Kashmir, Ladakh, Lakshadweep, and Andaman & Nicobar Islands. All residential consumers of these states/UTs applying for installation of rooftop solar on the National Portal for Rooftop Solar on or after date of issuance of this OM will be eligible to get higher CFA as mentioned below.:

i. Individual Household - For first 3 kW: Rs. 17662/ kW and for RTS capacity beyond 3 kW and upto 10 kW: Rs. 8831/kW.
ii. Resident Welfare Associations/Group Housing Societies (RWA/GHS) - Rs. 8831/kW for common facilities up to 500 kWp @ 10 kWp per house.

4. Ministry has also got representation from various stakeholders that presently two modes are being implemented in parallel. One is rates discovered and vendors empanelled by DISCOMs/SIAs through tendering process and other National Portal for Rooftop Solar. These two modes are creating confusion amongst consumers mainly due to difference in CFA rates. After having careful examination and to avoid ambiguity, it has been decided that uniform and fixed CFA as applicable under simplified procedure will be applicable for both the implementation modes. Therefore, for the all the future bids and the bids which are scheduled to be closed after 15 days of the issuance of this OM by the DISCOMs/SIAs against the capacity allocated by Ministry for installation RTS in residential sector under Rooftop Solar Programme Ph-II, the uniform and fixed CFA as applicable under National Portal for Rooftop Solar will be applicable.

5. This issues with the approval of competent authority.

HIREN CHANDRA BORAH

Digitally signed by HIREN CHANDRA BORAH
DN: c=IN, o=MINISTRY OF NEW AND RENEWABLE ENERGY, ou=MNRE, pseudonym=0749cfb2eeac57f7c84de6e7aeaa009744209 2ff440ddcdae17a96b35268ed68, postalCode=110003, st=DELHI, serialNumber=bbd0382adf865248 5eea7096db20dcbead4ae5a73680e229531018ccba472079, cn=HIREN CHANDRA BORAH
Date: 2023.01.27 15:37:47 +05'30'

(Hiren Chandra Borah)
Scientist 'D'

To
All concern

Copy to:
NIC, MNRE – for uploading on MNRE website and National Portal for Solar Rooftop and making necessary changes in the portal

Annexure - 18

"ഭരണഭാഷ- മാതൃഭാഷ"

കേരള സർക്കാർ

സംഗ്രഹം

ഊർജ്ജ വകുപ്പ് - സംസ്ഥാനത്തിന്റെ ഉപ്പുവെള്ള/കായൽ, തരിശായി കിടക്കുന്ന ജലാശയങ്ങളിൽ ഫ്ലോട്ടിംഗ് സൗരോർജ്ജ നിലയങ്ങൾ സ്ഥാപിക്കുന്നതിനുള്ള മാർഗ്ഗനിർദ്ദേശങ്ങൾ - അംഗീകരിച്ച് ഉത്തരവ് പുറപ്പെടുവിക്കുന്നു.

ഊർജ്ജ (പി എസ്) വകുപ്പ്

സ.ഉ.(കൈ) നം.4/2025/POWER തീയതി,തിരുവനന്തപുരം, 01-03-2025

പരാമർശം:-
1. 09-12-2022 ലെ സ ഉ (സാ ധാ) നമ്പർ 212 / 2022 /ഊർജ്ജം
2. 05-01-2022 ലെ സ ഉ (സാ ധാ) നമ്പർ 2 / 2023 /ഊർജ്ജം
3. ചീഫ് സെക്രട്ടറി അധ്യക്ഷനായുള്ള ഉന്നതതല കമ്മിറ്റിയുടെ 02 / 11 / 2024 ലെ യോഗനടപടിക്കുറിപ്പ്.
4. 23/01/2025 ലെ ANERT-RD/31/2023-17 നമ്പറായ അനെർട്ട് ചീഫ് എക്സിക്യൂട്ടീവ് ഓഫീസറുടെ കത്ത്.

ഉത്തരവ്

പരാമർശം (1) ലെ ഉത്തരവ് പ്രകാരം സംസ്ഥാനത്തിന്റെ ഉപ്പുവെള്ള/കായൽ, തരിശായി കിടക്കുന്ന ജലാശയങ്ങളിൽ ഫ്ലോട്ടിംഗ് സൗരോർജ്ജ നിലയങ്ങൾ സ്ഥാപിക്കുന്ന പദ്ധതിയുടെ നടത്തിപ്പിനായുള്ള മാർഗ്ഗനിർദ്ദേശങ്ങൾ തയ്യാറാക്കുന്നതിനും പദ്ധതി നടത്തിപ്പിൻ്റെ വിവിധ പ്രവർത്തനങ്ങൾ ഏകോപിപ്പിക്കുന്നതിനുമായി ചീഫ് സെക്രട്ടറിയുടെ അധ്യക്ഷതയിൽ ഒരു ഉന്നതതല കമ്മിറ്റി രൂപീകരിക്കുകയുണ്ടായി.

2. പരാമർശം (2) ലെ ഉത്തരവ് പ്രകാരം അനെർട്ടിനെ ടി പദ്ധതിയുടെ നോഡൽ ഏജൻസിയായും, അനെർട്ട് ചീഫ് എക്സിക്യൂട്ടീവ് ഓഫീസറെ ടി പദ്ധതിക്കുള്ള അപേക്ഷകൾ പരിശോധിക്കുന്നതിനും ചുമതലപ്പെടുത്തുകയുണ്ടായി.

3. ഇതിനെ തുടർന്ന് അനെർട്ട് ചീഫ് എക്സിക്യൂട്ടീവ് ഓഫീസർ, സംസ്ഥാനത്തെ ഉപ്പുവെള്ള/കായൽ, തരിശായി കിടക്കുന്ന ജലാശയങ്ങളിൽ ഫ്ലോട്ടിംഗ് സൗരോർജ്ജ നിലയങ്ങൾ സ്ഥാപിക്കുന്ന പദ്ധതിയുടെ കരട് മാർഗ്ഗ നിർദ്ദേശങ്ങൾ തയാറാക്കി സർക്കാരിന്റെ അംഗീകാരത്തിനായി സമർപ്പിച്ചു. ആയതിന്മേൽ ബന്ധപ്പെട്ട വകുപ്പുകളുടെ അഭിപ്രായങ്ങൾ ലഭ്യമാക്കുകയും വിവിധ തലങ്ങളിൽ ചർച്ചകൾ നടത്തുകയുമുണ്ടായി. പ്രസ്തുത ചർച്ചകളുടെ അടിസ്ഥാനത്തിൽ കരട് മാർഗ്ഗ നിർദ്ദേശങ്ങൾ പുതുക്കുകയും 02.11.2024-ൽ ചേർന്ന ഉന്നതതല സമിതിയുടെ യോഗത്തിൽ കരട് മാർഗ്ഗ നിർദ്ദേശങ്ങൾ സംബന്ധിച്ച് വിശദമായി ചർച്ച ചെയ്യുകയും കരട് അന്തിമമാക്കുന്നതിനു വേണ്ട നിർദ്ദേശങ്ങൾ നൽകുകയും ചെയ്തു. ആയതനുസരിച്ച് പുതുക്കി അന്തിമമാക്കിയ ഫ്ലോട്ടിംഗ് സോളാർ സ്ഥാപിക്കുന്ന പദ്ധതിയുടെ കരട് മാർഗ്ഗനിർദ്ദേശങ്ങൾ അനെർട്ട് ചീഫ് എക്സിക്യൂട്ടീവ് ഓഫീസർ പരാമർശം (4) പ്രകാരം സമർപ്പിക്കുകയുണ്ടായി.

4. സർക്കാർ ഇക്കാര്യം വിശദമായി പരിശോധിച്ചതിന്റെ അടിസ്ഥാനത്തിൽ ഈ സർക്കാർ ഉത്തരവിനോടൊപ്പം അനുബന്ധമായി ചേർത്തിട്ടുള്ള സംസ്ഥാനത്തിന്റെ ഉപ്പുവെള്ള/കായൽ, തരിശായി കിടക്കുന്ന ജലാശയങ്ങളിൽ ഫ്ലോട്ടിംഗ് സൗരോർജ്ജ നിലയങ്ങൾ സ്ഥാപിക്കുന്നതിനുള്ള മാർഗ്ഗനിർദ്ദേശങ്ങൾ അംഗീകരിച്ച് ഉത്തരവ് പുറപ്പെടുവിക്കുന്നു.

5. സർക്കാർ സ്കൂളുകളിലെ റൂഫ്ടോപ്പ് സോളാർ പാനലൈസേഷൻ സമയബന്ധിതമായി നടപ്പാക്കുന്നതിന് പൊതുവിദ്യാഭ്യാസ വകുപ്പും അനെർട്ടും നടപടികൾ സ്വീകരിക്കേണ്ടതാണ് എന്നുകൂടി ഉത്തരവാകുന്നു.

(ഗവർണറുടെ ഉത്തരവിൻ പ്രകാരം)
കെ ആർ ജ്യോതിലാൽ
അഡീഷണൽ ചീഫ് സെക്രട്ടറി

ഉത്തരവിൻ പ്രകാരം
Signed by Rajeev. P
Date: 01-03-2025 15:28:12
സെക്ഷൻ ഓഫീസർ

ചീഫ് എക്സിക്യൂട്ടീവ് ഓഫീസർ, അനെർട്ട്
വനം / തദ്ദേശ സ്വയംഭരണ / ധനകാര്യ / മത്സ്യബന്ധന / റവന്യൂ / ജലവിഭവ / പരിസ്ഥിതി / കൃഷി/ വ്യവസായ / പൊതുവിദ്യാഭ്യാസ / വകുപ്പുകൾക്ക്.
പൊതുഭരണ (എസ് സി) വകുപ്പ് (27/ 02 / 2025 ലെ ഇനം നമ്പർ : 2698 പ്രകാരം)
കരുതൽ ശേഖരം
ഓഫീസ് ഫയൽ

പകർപ്പ്:
ബഹു. വൈദ്യുതി വകുപ്പ് മന്ത്രിയുടെ അഡീഷണൽ പ്രൈവറ്റ് സെക്രട്ടറിയ്ക്ക്
ബഹു. പൊതുവിദ്യാഭ്യാസവും തൊഴിലും നൈപുണ്യവും വകുപ്പ് മന്ത്രിയുടെ പ്രൈവറ്റ് സെക്രട്ടറിയ്ക്ക്

ഊർജ്ജ വകുപ്പ് അഡീഷണൽ ചീഫ് സെക്രട്ടറിയുടെ പി. എ. യ്ക്ക്

ഊർജ്ജ വകുപ്പ് ജോയിന്റ് സെക്രട്ടറിയുടെ സി. എ. യ്ക്ക്

AGENCY FOR NEW & RENEWABLE ENERGY RESEARCH AND TECHNOLOGY (ANERT)
Department of Power, Government of Kerala
Thiruvananthapuram, Kerala – 695 033;
www.anert.gov.in , projects@anert.in

E-EOI DOCUMENT

Expression of Interest (EoI) for the Selection of Consultancy Firm ('Consultant') for setting up of Project Management Unit ('PMU') for the proposed Kerala Green Hydrogen Mission

Ref. No.: ANERT-RD/25/2023-T7

PART – 1: GENERAL CONDITIONS

Date of Publishing of Bids : - 23/08/2023

Last Date of Submission of Bids : - 15/09/2023

The proposed PMU shall support ANERT/ Kerala Green Hydrogen Mission in achieving its vision to position Kerala as the most attractive investment destination for green energy and green hydrogen

21. SCOPE OF SERVICES OF THE PROGRAM MANAGEMENT UNIT (PMU)

The proposed Program Management Unit shall provide consultancy services to ANERT / Kerala Green Hydrogen Mission for meeting the collective business objectives of Agency for New and Renewable Energy Research and Technology (ANERT) and Power Department, Government of Kerala as well as central government agencies in Power sector. The Scope of the services of the PMU is detailed below.

Component 1: Investment Promotion, Facilitation, and Program Management

a. Investment promotion and facilitation activities for new projects in power sector
b. To recommend outreach activities and brand building to position Kerala as an attractive and responsible investment destination for power projects.
c. Support department's participation in various events, workshops, seminars and roadshows by providing necessary insights/ analysis through market research
d. To assist ANERT to liaison with global industry bodies, business councils, Embassies etc. to promote and facilitate investment opportunities in the state.
e. To identify the best practices in other states for attracting investments and to compare the advantages of Kerala viz-a viz other leading states and south-Indian states, especially in parameters like Power Tariff, Grid Charges, Incentives, Subsidies, etc.
f. Support for program management of projects announced in State and Central budgets from time to time (e.g., Projects of State agencies such as ANERT) and manage the review meetings chaired by State and Central Governments from time to time.
g. Support ANERT in pitching proposals to International Financial Institutions, Central government bodies and other funding agencies for availing funds
h. Program management support to ANERT for the proposed Green Hydrogen Hub in Kochi and proposed Hydrogen Valley in Kochi and Vizhinjam

i. Program management support to Kerala Green Hydrogen Mission and Green Hydrogen Working Group constituted by Government of Kerala (which is a public, private academia group) for conducting monthly review meetings and monitor the progress of projects and programs
j. Coordination with multilateral agencies, and global investors for investment facilitation
k. To coordinate/ follow-up various projects/ MoUs etc., announced during the 'ASCEND Kerala'/ similar Investor Summits, with respective nodal officers, and submit periodic status updates to ANERT.
l. Prepare reports, presentations, letters, analyses, and other documents, pertaining to all activities mentioned above, from time to time.

Component 2: Program management in Power and New Energy domain

a. Support in preparation and formulation of state level policy documents, mission, and guidelines in the areas of solar/wind/Green Hydrogen and Energy Storage areas
b. Assist in potential estimation and demand assessment for various renewable energy projects including solar/wind/Green Hydrogen and Energy Storage
c. Support in development of new programs and schemes for deployment of renewable energy technologies
d. Identification and development support for Green Hydrogen clusters in the state
e. Supporting in preparation of relevant documents and policy notes for facilitating subsidy from the state government/MNRE
f. To assist in preparation of draft incentive structure and approximate budget estimations under Policies.
g. To support ANERT / Power Department, Government of Kerala in preparation of policy related collaterals (Presentations, policy briefs, PR/marketing material etc.) for the policy related events and launch program.
h. Stakeholder consultation, consolidation of comments from time to time on various Policies/Regulations/Guidelines and finalize the same
i. To identify measures to fast-track clearances for investment promotion
j. Assist for review of DPR/TEFR for projects in ANERT
k. Assist in creating high level financial modelling/analysis for power projects

Component 3: Project implementation support for power sector

a. Support in structuring of pilot projects and their implementation
b. Support in project management and implementation of various state level schemes and programs
c. Support in bid process management for empanelment of vendors, selection, and monitoring
    i. Identify most optimal transaction structure while creating a framework and finalizing bidding methodology
    ii. Assistance in Preparation of Bid Documents (including EOI / RFP / Draft Definitive Agreements, etc.) for soliciting proposals from the private sector players
    iii. Assistance in pre-Bid Marketing & Information Dissemination to prospective investors / bidders
    iv. Assistance in evaluation of proposals submitted by the bidders
    v. Assistance till the execution of Definitive Agreement with the selected Investor/Developer.
    vi. Market Sounding and communication to various stakeholders seeking partnership and support
d. Support ANERT / Power Department, Government of Kerala in providing adequate response/clarifications to various agencies for implementation of various schemes and programs
e. Provide suitable recommendations to attract private investments
f. Preparation of notes, concept papers from time to time

Component 4: Ease of Doing Business and reforms in power sector

a. To facilitate and assist ANERT as the Project Management Unit for strengthening the works related to Ease of Doing Business initiatives, support for implementation of various EoDB based initiatives
b. Assist ANERT for streamlining the process flow, procedures and list of approvals/ license / registrations/ NOCs/ permits, etc., including their renewals in digitalized manner in the proposed Single Window Clearance portal

c. Assist ANERT for devising the architectural design and framework, implementing and strengthening State's online Single Window Clearance Mechanism proposed for facilitating investments in Floating Solar and other RE Projects.
d. To coordinate with ANERT in ensuring the time bound deployment of the Single Window Clearance Mechanism across the State in consultation with the stakeholder departments/concerned agencies.
e. To work in close coordination with all Departments / Agencies and for all activities in connection with the implementation of proposed Single Window Clearance portal
f. To coordinate with NIC / Agencies deployed by Central and State Governments to complete the process flow and procedures for integrating the renewals of licenses / permits from all the Departments / Agencies concerned.
g. To support ANERT in designing high level architectural framework for developing "Invest Kerala (Power Sector)" website and suggest modifications to be made in the website based on industry standards and best practices
h. To implement all the recommendations of any EoDB study published by State or Central Government from time to time, within Power Department and its agencies
i. To assist ANERT for the effective implementation of the Online Portal, its Media/ Communication Plan, from time to time, for creating awareness and increasing the number of applications.
j. To support and undertake any other activities for the successful implementation of Ease of Doing Business in Power Sector in the State, not mentioned herein above.
k. To assist ANERT or other State agencies of the Power Department, Government of Kerala in various tasks related to the Entrepreneurs' Complaints (Grievance) Redressal Committees constituted at the State and District levels.

22. QUALIFICATION CRITERIA

22.1.1 An undertaking in Rs.200/- Kerala stamp paper as per the format given in Annexure IC must be submitted along with e-EoI document.

22.1.2 Power of Attorney for signing the documents has to be provided by the bidder. The documents signed by this authority only will be accepted for Expression of Interest and other documents submitted under this project. If the agency desires to change this authority fresh PoA has to be submitted.