No. 11/05/2018-Coord.
भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power

Shram Shakti Bhawan, New Delhi
dated 4th April, 2020

ORDERS

Subject: Public Procurement (Preference to Make in India), Order 2017 No. P-45021/2/2017-PP (BE-II) dated 29.05.2019 (latest version)

1. The Department for Promotion of Industry and Internal Trade (DPIIT), Government of India has issued Public Procurement (Preference to Make in India) Order, 2017 latest version vide notification dated 29.05.2019 referred above to encourage “Make in India” initiative and to promote manufacturing and production of goods and services in India with a view to enhancing income and employment.

2. In the light of the earlier version of Public Procurement (Preference to Make in India) Order 2017, the Ministry of Power (MoP) vide Orders No. 11/05/2018-Coord dated 20.12.2018 had notified purchase preference (linked with local content) in respect of Hydro Generation and Transmission sector. In respect of Thermal Generation sector, notification was issued vide order No. 11/05/2018-Coord dated 28.12.2018.

3. In furtherance of DPIIT Notification No., P-45021/2/2017-PP(BE-II) dated 29.05.2019 and in continuation of the aforementioned MoP orders dated 20.12.2018 and 28.12.2018 it has now been decided as follows-

i) In pursuance of the provision of clause 3(a) of the DPIIT Order, 2017, items in respect of the goods, material, equipment etc. used in the power sector under the classification of "where local capacity and local competition " exists and where only the local suppliers shall be eligible to bid irrespective of purchase value of the goods, equipment and material are listed as under Annexure-I.

ii) In pursuance of the provision of clause 13 of the DPIIT Order, 2017, equipment used in the power sector which are manufactured under license from foreign manufacturers holding intellectual property rights and where there is a transfer of technology agreement are listed as under Annexure-II.

iii) In order to further encourage Make in India initiative and promote manufacturing and production of goods and services in India,
general guidelines as enclosed at **Annexure-III**, may be selectively adopted in an appropriate manner by procuring entities in their tendering process.

4. All other conditions shall be as laid down in the DPIIT Notification No. P-45021/2/2017-PP (BE-II) dated 29.05.2019 (latest version) and related MOP orders issued till date of issue of this order. This shall be complied with by all attached or subordinate Offices or autonomous body under the Ministry of Power, Government of India including Government Companies as defined in the Companies Act, and/or the States and Local Bodies making procurement under all Central Schemes/ Central Sector Schemes where the Scheme is fully or partially funded by Government of India.

This issues with the approval of Hon'ble MoS(IC) for Power and NRE.

(PBS Dinker)
Under Secretary to the Government of India
Tele No. 011-23752495
Annexure-I

A. Transmission Sector- List of equipment pertaining to transmission system of 66 kV and above voltage level.

1. Transformers and Reactors (66 kV to 765 kV AC)
2. Air Insulated Switchgear (Circuit Breakers, Disconnectors), Surge Arrester, Wave trap (66 kV to 765 kV AC)
3. Gas Insulated Switchgear (66 kV to 400 kV AC)
4. Instrument Transformers (66 kV to 765 kV AC)
5. Bus Post Insulators
6. Substation structure material
7. Transmission line tower material
8. Conventional conductors and accessories
9. Porcelain Insulators and hardware fittings
10. Control & power cables
11. High Voltage Cables (upto 220 kV AC)
12. Control and Protection System including Substation Automation System
13. DG set
14. DC system (DC Battery & Battery Charger) in a substation
15. AC & DC Distribution Board for substation
16. Material for Grounding system
17. Items for illumination system

B. Hydro Sector- List of equipment pertaining to Hydro Generating Station.

1. Hydro Turbine & Associated equipment (Francis, Kaplan & Pelton Turbine)
2. Generator & Associated Equipment
3. Generator Transformer & Reactors
4. Main Inlet Valve & Associated Equipment
5. Penstock protection Valve and Associated Equipment
6. Governing system & Accessories
7. Gas Insulated Switchgear/ Gas Insulated Bus Ducts (Up to 400 kV)

8. Switchyard/Pothead Yard Equipment (excluding Transformer and Reactors)

9. Automation and Controls

10. Protection System

11. XLPE Cable (up to 400 kV)

12. Static Excitation System

13. SST, UAT & SAT

14. LV, MV & HV Switchgear

15. LV, MV & HV Bus Ducts

16. DC System

17. Power and Control Cable

18. Illumination system

19. D.G. Set

20. PLCC

21. Grounding System

22. Workshop Equipment

23. EOT Crane

24. Cooling Water System

25. Compressed Air System

26. Drainage/Dewatering System

27. Fire Protection System


29. Elevator

30. Oil Handling System

31. Mechanical BOP Items

C. Thermal Sector- List of equipment pertaining to Thermal Generating Station.

Coal/ lignite based thermal power projects/ plants:

1 Boiler Auxiliaries
   i) Air pre-heater
   ii) SCAPH
   iii) Steam soot blowers (wall blowers & LRSB)
   iv) Auxiliary Steam PRDS
   v) Mill reject system
   vi) Fuel oil system
vii) Seal air Fan
viii) Ducts and dampers
  ix) Duct expansion joints
  x) Blowdown tanks

2 Electro- static precipitators (ESPs)
  i) Casing
  ii) Electrodes
  iii) Rapping system
  iv) Hopper heaters
  v) Transformer rectifiers
  vi) Insulators

3 Turbine Auxiliaries
  i) Condensate extraction pumps
  ii) Condenser On line Tube Cleaning System (COLTC)
  iii) Debris filters
  iv) Deaerator
  v) Drain cooler and flash tanks
  vi) ECW pumps
  vii) Plate heat exchangers
  viii) Self- cleaning filters
  ix) Condensate polishing units (CPUs)
  x) Chemical dosing system

4 Generator Auxiliaries
  i) Seal oil system
  ii) Hydrogen cooling system
  iii) Stator water cooling system

5 Electrical Works
  i) Transformers
  ii) Bus ducts
  iii) Motors
  iv) Switchgears
  v) Power & control cables
  vi) Control and metering equipment
  vii) Protective relays
  viii) Switch yard equipment - Insulators, Circuit Breakers, Isolators, Conductors, CTs, PTs, Bushings, surge arresters etc.
  ix) Earthing & Lightning protection system
x) DC batteries & battery charger system
xi) Electrical laboratory & testing equipment
xii) Emergency DG sets
xiii) Plant illumination system

6 Control & Instrumentation System (C&I System)
i) Thermocouples
ii) Measuring instruments
iii) Burner management system
iv) Flame scanners
v) Actuators
vi) Automation and Control Cards
vii) PLC System
viii) SWAS system
ix) Vibration monitoring system
x) Interplant communication/ public address system

7 Coal Handling Plant
i) Conveyors
ii) Hydraulic drives, hydraulic motor
iii) Wagon Tippler
iv) Side Arm Charger
v) Paddle feeder
vi) Crushers & Screens
vii) Dust suppression (dry fog & plain water) system
viii) Air Compressors
ix) Magnetic separators & metal detectors
x) Coal sampling system
xi) Stacker cum reclaim
xii) Belt weighing & monitoring system.

8 Ash Handling System
i) Clinker grinder
ii) Water jet ejectors
iii) Scraper chain conveyor
iv) Dry fly ash vacuum extraction system
v) Pressure pneumatic conveying system
vi) Ash water & ash slurry pumps
vii) Compressors, air dryers & air receivers
viii) Ash water recovery system
9 Raw water intake & supply system
   i) Travelling water screens
   ii) Raw water supply pumps
   iii) Valves, RE joints etc.

10 Water Treatment System and Effluent Treatment System
   i) Clarification plant
   ii) Filtration plant
   iii) Ultra filtration plant
   iv) Reverse osmosis plant
   v) DM plant
   vi) Chlorination plant
   vii) Chemical dosing system
   viii) Effluent Treatment Plant

11 CW & ACW System
   i) CW & ACW Pumps
   ii) BF valves, NRVs etc.
   iii) RE joints
   iv) Air release valves

12 Cooling towers (NDCT/ IDCT)
   i) Water distribution system,
   ii) spray nozzles,
   iii) packing,
   iv) drift eliminators
   v) CT Fans (for IDCT)
   vi) Gear boxes, shafts & motors (for IDCT)

13 Air Conditioning & ventilation system
   i) Split & window air conditioners
   ii) Chilling/ condensing unit
   iii) AHU and Fresh air unit
   iv) Cooling towers
   v) AWUs, axial fans, roof extractors
   vi) Ducts, louvers & dampers

14 Cranes, EOT cranes, gantry crane & chain pulley blocks etc.

15 Fire Protection and Detection System
   i) Motor driven fire water pumps
   ii) Diesel engine driven fire water pumps
   iii) Hydrant system for the power plant.
iv) High velocity water spray system
v) Medium velocity water spray system
vi) Foam protection system
vii) Inert gas flooding system
vii) Fire tenders
viii) Portable fire-extinguishers
ix) Automatic fire detection, alarm & control system
x) Fire alarm panels

**16 Flue Gas Desulphurization (FGD)**

i) Spray header
ii) Mist eliminators
Annexure-II

The items manufactured under license from foreign manufacturers holding intellectual property rights and where there is a transfer of technology.

A. Transmission Power sector-
1. Gas insulated switchgear (400 KV and above)
2. 400 KV XLPE cable
4. SCADA
5. Power Transformers, 765KV
6. HVDC Transformers
7. Reactors 400 KV and above
8. Composite Core Conductor
9. GAP Conductors
10. ACSS Conductor
11. INVAR Conductors
12. EHV Cables (up to 220 KV)
13. EHV Cables 400 KV
14. Composite Long Rod Insulators
15. HV Gas Insulated Switchgear (72.5 kV to 420 kV)
16. MV AIS Panels (incl. Circuit Breakers) up to 36 KV, indoor
17. MV Breakers up to 40.5 kV, Outdoor
18. MV GIS Panels (Up to 33kV)
19. RMUs (11kV)
20. RMUs (33kV)
21. Control & Relay Panels, SCADA, Sub-Station Automation etc

B. Hydro Power sector
1. Gas Insulated Switchgear/ Gas Insulated Bus Ducts (400 KV and above)
2. Automation and Controls
3. Protection System
4. 400 kV XLPE Cable
c. Thermal Power sector

D. Coal/ lignite based thermal power projects/ plants:

1. **Boiler pressure parts**
   i) Tubes
   ii) Steam pipes/ headers
   iii) Steam headers
   iv) Steam drum
   v) Separator

2. **Boiler Auxiliaries**
   i) Coal burners and oil burners
   ii) Coal mills
   iii) Coal feeders
   iv) PA /FD/ ID fans
   v) SCR

3. **Steam turbine**
   i) HP/ IP/ LP turbine
   ii) Bearings
   iii) Steam inlet valves
   iv) Generator

4. **Steam turbine auxiliaries**
   i) Gland steam condenser
   ii) Lub oil pumps
   iii) Oil filters
   iv) Oil purifiers
   v) Condensate extraction pumps
   vi) Condenser
   vii) HP & LP heaters
   viii) Boiler Feed Pumps (BFPs)
   ix) BFP hydraulic coupling
   x) BFP Drive turbines

5. **Control & Instrumentation System (C&I System)**
   i) Distributed digital control, Monitoring and Information System (DDCMIS)

6. **Flue Gas Desulphurization (FGD)**
i) Spray nozzles
ii) Oxidation Blowers
iii) Limestone slurry handling pumps
iv) Booster fans
v) Vacuum belt filters

B. Gas based thermal power projects/plants:

1. Gas turbine generating set and auxiliaries:
   i) Gas turbine unit  Upto 44 MW
   ii) Combustion unit (Standard)
   iii) Compressor unit upto 145 MW
   iv) Lubrication and control oil system
   v) Oil purification and cooling system
   vi) Compressor cleaning system
   vii) Inlet air system

2. Exhaust gas system
   i) Ducting
   ii) Silencers
   iii) Bypass stack
   iv) Guillotine gates & Diverter damper
   v) Expansion joints

3. Heat Recovery Steam Generator (HRSG)
   i) Drums
   ii) Evaporators & superheaters
   iii) Condensate preheater
   iv) Feed regulating station
   v) Blow down tank
   vi) Chemical dosing system
   vii) HRSG Stack
Annexure-III

General guidelines to be adopted selectively in an appropriate manner by the procuring entities in their tender documents.

1. The bidder shall have to be an entity registered in India in accordance with law.

2. The bids shall be in the language as prescribed by the tenderer/procurer.

3. The bids shall be in Indian National Rupees (INR) only in respect of local content only.

4. Indian subsidiaries of foreign bidders shall meet the qualifying criteria in terms of capability, competency, financial position, past performance etc.

5. The bidder shall follow Indian laws, regulations and standards.

6. To be eligible for participation in the bid, foreign bidders shall compulsorily set up their manufacturing units on a long term basis in India as may be specified by the tenderer/procurer.

7. Similar or better technology than the technology offered in respect of material, equipment and process involved shall be transferred to India. Along with the transfer of technology, adequate training in the respective field shall also be provided.

8. Country of origin of the equipment/material shall be provided in the bid.

9. For supply of equipment / material from the country of origin other than India, the bidder shall submit performance certificate in support of satisfactory operation in India or a country other than the country of origin having climatic and operational conditions including ambient temperature similar to that of India for more than --- years (to be specified by the procurer).

10. The technologies/ products offered shall be environmentally friendly, consuming less energy, and safe, energy efficient, durable and long lasting under the prescribed operational conditions.

11. The supplier shall ensure supply of spares, materials and technological support for the entire life of the project.

12. The manufacturers/ supplier shall list out the products and components producing Toxic E-waste and other waste as may be specified. It shall have an Extended Producers Responsibility (EPR) so that after the completion of the lifecycle, the materials are safely recycled / disposed of by the Manufacturer/ supplier and for this, the
Manufacturer/supplier along with procurer has to establish recycling / disposal unit or as may be specified.

13. Domestic Content requirement (based on the cost of the product) shall be in accordance with the conditions laid down in respective Order(s) of the sectors on Public Procurement (Preference to Make in India) to provide for purchase preference (linked with local content).

14. The equipment/ material sourced from foreign companies may be tested in accredited labs in India before acceptance wherever such facilities are available.

15. The Tender fee and the Bank Guarantee (BG) shall be in Indian Rupees only.

16. The bidder shall have to furnish a certificate regarding cyber security/safety of the equipment/process to be supplied/services to be rendered as safe to connect.

17. Applicable safety requirements shall be met. Regular safety audit shall be carried out by the manufacturer/ supplier.

18. Statutory laws/regulations including the labour and environmental laws shall be strictly complied with during supply, storage, erection, commissioning and operation process. A regular compliance report shall be submitted to the procurer/appropriate Authorities.

19. Formation of new joint venture in India shall be permitted only with the Indian companies.

20. Tendering by the agent shall not be accepted.

21. The original test report in the language prescribed by the procurer shall generally be accepted. Preferably the translated test report shall not be accepted. However, the notarized translation of test reports shall be accepted.

22. Certification/compliance as per the Indian Standards/ International Standards/ Indian Regulations/ specified Standards shall be mandatory, where ever applicable.

23. Quality assurance of the product shall be carried out by the procurer or an independent third party agency appointed by the procurer. Manufacturing Quality Plan as approved by the procurer shall be followed by the manufacturer/supplier.

24. Wherever required, the foreign supplier shall establish fully functional service centers in India and shall keep spares/material locally for future needs of utilities.

25. Arbitration proceedings shall be instituted in India only and all disputes shall be settled as per applicable Indian Laws.