

DETAILS OF CONTRACTS AWARDED ON SINGLE TENDER (OEM/OES/PAC/SS) BASIS ----							
BTPS							
PERIOD : AUGUST, 2021.			PURCHASE ORDERS				
Sl.No.	Name of the Project	Details of Work	Name of the Awardee	Type or Nature of Tenders (Single / Nomination etc.)	Brief Reason for Single Tender / Nomination etc.	Work Order No. and Date	Value of Contract Awarded
1	BTPS	Supply of HSD for consumer pump installed at DVC, BTPS	Indian Oil Corporation Ltd (MD)	Single(PSU)	HSD is being procured from M/s Indian Oil Corporation Limited as both the diesel Pumps have been installed by IOCL. HSD is used in the Power House mainly in Dozers at Coal Handling Plant for coal feeding, vehicles owned by DVC, DG sets and Fire Engine.	DVC/Contract/BTPS/STORE/C&M/Supply/0024 Dated 09/08/2021	1,32,61,778.40

2	BTPS	Procurement of cards for C264 BCU relay at DVC BTPS	MASHEL ELECTRIC	Single(OES, OEM)	All cards of BCU (Bay Control Unit) proposed to be procured are in service in various bays of 400kV GIS. These cards are very much essential to smooth operation and monitoring of 400kV GIS. We have no mandatory spare of few cards(mentioned in NIT) of BCU.The cards will be utilized in case of failure/damaged of in service BCU. No. of cards to be procured are minimum for replacement/maintaining minimum spare for emergency requirements.	DVC/Contract/BTPS/ES-II A/C&M/Supply/00091 Dated 16/08/2021	5,77,900.00
3	BTPS	Procurement of lube oil coolers for PA fan of BTPS (1X500 MW) Unit.	SHREE GAJANAND POWER SYSTEMS	Single(OES, OEM)	There are two nos. of PA fans installed at BTPS (1X500 MW) Unit, each fan has dual lub oil pumps equipped with twin coolers/heat exchangers for maintaining the lub oil temperature within permissible limit. Due to prolong use over the years the thickness of the tubes slowly reduces resulting in tube failure. This leads to deterioration of the expected performance of the subject cooler. These items are very essential in nature as their under-performance may result damage of bearings of the rotor assly. of the PA fans. As such they are required to be serviced and cleaned in short shutdown or as and when required basis to make the cooler for effective cooling. So, minimum one set has to be kept in stock to meet the requirement during maintenance of the equipment. There are total 04 nos. of PA fan lube oil coolers installed at BTPS (1X500 MW) Unit. These coolers are in service since COD of the Unit. Presently there is no stock of the indented spares. Hence, it is felt prudent to procure one set cooler for normal maintenance as well as emergency requirement against failure to cope up the high lead time of procurement, delivery period and expected consumption in the near future	DVC/Contract/BTPS/MS-I A/C&M/Supply/00098 Dated 17/08/2021	1,98,500.00

4	BTPS	Procurement of (i)one number of spare motor (200 KW, 3.3 KV) for hydrant/spray pump ,(ii)one number of spare motor (150 KW, 415 V) for CT makeup pump, (iii)one number of spare motor (110 KW, 415 V) for raw water pump on OEM basis from M/s MEMIL, pertaining	M/s TECHNO SERVICES ENGINEERING SYSTEMS PVT. LTD	Single(OES,OEM)	<p>The motors of hydrant pumps, spray pump installed at fire water pump house, motors of CT makeup pumps installed at clarified water pump house and motors of raw water pumps installed at intake pump house are of M/s MEMIL make .</p> <p>There is no spare motor available to meet the critical situation during failure of insulation or any other defect resulting in outage of any one of these above mentioned motors. Also these motors were not supplied under mandatory spares of 1x500MW Unit. Hence one more motor of each type is required to meet the exigency for immediate restoration of the equipment and thus safe and reliable O&M of unit. Therefore it's felt necessary to propose to procure one number spare motor for hydrant/spray pump, one number spare motor CT makeup pump, one number spare motor for raw water pump respectively from the OEM i.e. M/s MEMIL so that the respective spare motors will be best fitted on their replacement on the old base with 1:1 interchangeability ratio in all respect</p>	DVC/Contract/BTPS/ES-II A/C&M/Supply/00092 Dated 17/08/2021	21,82,852.00
5	BTPS	Supply of C&S make LT Breaker.	M/s SHREE SHYAM SALES	Single(OES,OEM)	<p>There are approximately 125 Nos. LT Breakers (415V, Make-C&S, rating from 800A-3000A) used in different 415V LT board installed at IPH area of 1X500MW Unit of DVC, BTPS for their switching operations and isolation during fault conditions. All major electrical equipments namely incomer breakers, tie breakers, Bus-Coupler breakers of various LT Boards/ MCCs, LT motors of different rating and other feeders are switched ON-OFF as per requirement with the help of these ACBs(Air Circuit Breakers). During fault conditions these are subjected to clear the fault current of the range of 40-80KA (Kilo-Amperes).</p> <p>As some breakers in Ash Handling Plant are frequently operated especially breaker of Ash slurry pump which is approximately 15-20 times a day and all the breakers of 415V C&S make LT board in IPH area are commissioned by BHEL five years ago i.e. mechanical life of these breaker is reducing and hence procurement of these LT breakers in minimum quantity is required to cope up any unforeseen condition.M/S C&S Electric is the OEM of these breakers. It is therefore, proposed to procure these breakers from the OEM i.e. M/s C&S Electric, Considering exact fitment and inter changeability in standard slots provided in C&S make LT Breaker Module of 415V LT board installed at IPH area of 1X500 MW Unit, DVC,BTPS</p>	DVC/Contract/BTPS/ES-I A/C&M/Supply/00083 Dated 17/08/2021	35,42,325.00

6	BTPS	Procurement of Battery, Make-Exide(12 Volts, 25 Plates , Type:MHD 1800) for DG Sets (2x1500 KVA) pertaining to 1X500 MW Unit of DVC, BTPS	Kemi Diesel Equipments	Single(OES, OEM)	<p>There are 02(Two) nos. of DG sets of rating 1500KVA pertaining to 1x500MW Unit of DVC, BTPS. These DG sets play vital role during TPF (Total Power Fail) Situation arising due to any abnormality/ fault in the electrical circuit/equipment of power house/grid. These DG sets in such emergency situation serves the purpose of providing back up power to the important auxiliaries related to seal/ Lub/ illumination system etc. till the critical situation is normalized. Therefore, it is very necessary to keep these DG sets always in available condition from the emergency point of view. These Exide Battery (12V, 25 plates, Type-MHD 1800) are being used for starting and control of DG sets. Total Twelve (12) nos. battery have been used in 2x1500KVA rating DG Sets of 1x500MW Unit. Guaranteed life of Batteries is 01 (One) year. However, the proper upkeepment may extend its life by six more months. The existing batteries are nearing one and half year of their installation. The old battery may start malfunctioning due to ageing effect. Therefore, procurement of these batteries is felt necessary to replace the existing batteries to meet any exigency for smooth operation of DG sets during total power fail condition</p>	DVC/Contract/ BTPS/ES-I A/C&M/Supply/00084 Dated 19/08/2021	1,44,240.00
7	BTPS	Supply of Circuit Breaker, Disconnector switch, PT, and SF6 Gas to Air Bushing of 400kV GIS at DVC, BTPS	Hyosung T & D India Pvt Ltd	Single(OES, OEM)	<p>400KV Switchyard have been commissioned in the year of 2014 under consultancy services of Power Grid Corporation of India Ltd.To maintain the inventory at site,CB,Dis-connector switch,PT and SF6 Gas to air bushing is required to purchase from OEM/OES to minimise the shutdown period and reduces the commercial loss of organisation.At present one no CB,Dis-connector switch,PT and SF6 Gas to air bushing is available at BTPS store as mandatory spare provided by Hyosung Corporation.To maintain minimum availability of item at store in view of for all three phase.Hence CB,Dis-connector switch,PT and SF6 Gas to air bushing is required to buy.</p>	DVC/Contract/ BTPS/ES-II A/C&M/Supply/00093 Dated 28/08/2021	1,56,08,500.00

8	BTPS	Procurement of steel for Different sections of DVC, BTPS.	Steel Authority Of India Limited, Bokaro	Single(PSU)	<p>The item was procured for its use during the overhuling of BTPS-A (1X500 MW) as per the requirement of SE(F&E) & SE(AHP) and was kept reserved for both sections. However due to heavy rainfall ,four numbers of barrage gate of BTPS plant got damaged on 30.07.2021.The barrage gates are required for the storage of water for its use in BTPS plant.These play a very vital role in continuous running of BTPS-A plant and uninterrupted water supply to BTPS Colony. Therefore for repair of barrage gates 12 mm plate was required by Civil section,which was issued viewing the exigency of situation.</p> <p>SE(F&E)-: CHP System is running continuously for crushing and feeding of running unit BTPS A (1x500 MW). Due to abrasive nature of coal and its handling at CHP erosion, wear & tear of internal wear resistant liners at transfer chutes at various TP's, and crusher etc. occurred and the various places chutes have developed hole. The chute hole/leakage is presently being arrested by patch repairing of chutes. which is required to replace urgently for smooth running of CHP system.Thus, indented items are required to be procured for day to day repair maintenance & modification and also overhauling Shutdown.Thus indented quantity of is required to be procured more than MA.</p> <p>SE(AHP) -:Vacuum lines of AHP of BTPS A often get choked for which the lines need to be checked and flushed. The entire length of pipeline is not easily accessible so,there is a program of erection of platform and walkway for easy access for maintenance of vacuum line in AHP of 1X500 MW.</p>	DVC/Contract/ BTPS/MPC A/C&M/Supply/00027 Dated 25/08/2021	21,28,000.00
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9	BTPS	PROCUREMENT OF COMPLETE NRV ASSEMBLY INSTALLED IN BFP DISCHARGE TO SUPER HEATER AND RE-HEATER SPRAY LINE FOR BOKARO-1X500 MW UNIT.	M/s BHEL, PSER	Single(OES, OEM)	<p>Three (03) nos. NRV are installed in each BFP discharge to Super heater and Re-Heater Spray Line respectively for MDBFP & TDBFP# A&B. In case of passing through these valves, the boiler feed pump internals will be subjected to wear and tear, hence it is very much essential to maintain healthiness of these valves. Smooth functioning of these valves ensures smooth running of BFPs and subsequently the Unit. Considering the criticality of these valves, it is being proposed to procure complete valve assembly. Present stock of the indented items is nil and is being procured to maintain minimum inventory. The indented items will be utilized to meet any exigency and also in case of any breakdown/ overhauling requirement. All the indented items are being procured for the first time. The spares will be procured from M/s BHEL, the OEM</p>	DVC/Contract/ BTPS/TG A/C&M/Supply/00114 Dated 20/08/2021	11,20,000.00
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10	BTPS	PROCUREMENT OF SPARES FOR HYDRAULIC TURNING GEAR OF MAIN TURBINE FOR BTPS-1X500 MW UNIT.	M/s BHEL, PSER	Single(OES, OEM)	<p>Hydraulic Turning Gear is a vital component of Steam Turbine Unit. It consists of a stationary nozzle assembly unit and a rotatory impeller assembly unit. Its rotating part is coupled to the Turbo-generator set and stationary nozzle provides pressurized oil to rotating impeller blades thereby rotating the Turbo-generator set at barring speed which is important to be maintained for uniform heating of the Turbine rotors during startup and shut down of the unit and also during shut down for countering the effect of sag, this safeguards vital operational parameters of the TG set. Unit generation depends on the availability of the Turbo-generator set, which shall be jeopardized in case of any exigency caused due to breakdown in the Hydraulic Turning Gear system ensuring that the unit is made available for generation in the shortest timeframe.</p> <p>Considering the criticality as per aforesaid facts it is being proposed to procure spares of Hydraulic Turning Gear of the main Turbine. Present stock of the indented items is nil and is being procured to maintain minimum inventory. All the indented items are being procured for the first time and have been included in critical spares as per copy from OSU, Kolkata. The spares will be procured from M/s BHEL, the OEM.</p>	DVC/Contract/BTPS/TG A/C&M/Supply/00113 Dated 20/08/2021	32,64,700.00
					WORK ORDERS		

	Name of the Project	Details of Work	Name of the Awardee	Type or Nature of Tenders (Single / Nomination etc.)	Brief Reason for Single Tender / Nomination etc.	Work Order No. and Date	Value of Contract Awarded
1	BTPS	Maintenance contract of M/s Exide make Batteries installed in Main Plant UPS And 24VDC Charger and DM Plant UPS System of BTPS-A Plant(1X500MW), DVC.	EXIDE INDUSTRIE S LIMITED	Single(OES, OEM)	The battery banks of Main plant UPS,24V DC SMPS based charger and DM Plant UPS and manufactured & commissioned by M/s EXIDE,the OEM which is in service since commissioning.Battery banks associated with UPS System & charger system is the heart of C&I system.So smooth and trouble free running of DCS & PLC system purely depends on battery banks which is very much essential for C&I system and equipments.Expertise/specialized manpower are required to maintain this type of large capacity battery banks.In view of non-availability of expertise/specialized manpower of this type job.Hence,the battery banks requires proper predictive and preventive maintenance on periodical basis.Under the present situation it is very hardly possible to undertake periodic maintenance of battery banks associated with UPS & Charger departmentally because the job demands specialized technical expertise.Accordingly OEM is the best option to get better service support for this critical application.	DVC/Contract/ BTPS/C&I A/C&M/Works and Service/00019 Dated 21/08/2021	4,38,000.00

2	BTPS	Consultancy for Integrity test of CHP concrete floor slab at DVC, BTPS, Bokaro Thermal.	JADAVPUR UNIVERSITY	Professional Institute(Utilization of services of specialist/consultant/experts).	During recent past,the reclaim hopper of CHP area has developed some minor visible cracks.The area was jointly visited by the CE & HOP,DCE(C),SE(C) with their team and it was decided to conduct Non-destructive tests for the CHP concrete floor slab.To assess the health of the existing structures,it is very essential to conduct NDT to determine the residual life and remedial measures,if any, after recommendation by competent testing authority/agency.Also the said structures are in continuous operation and if any breakdown occurs, then it will badly affect generation.Accordingly offer has been received from JADAVPUR UNIVERSITY for the above test after joint visit of the area by a team from Jadavpur University.	DVC/Contract/BTPS/CIVIL A/C&M/Works and Service/00054 Dated 07/08/2021	2,95,000.00
3	BTPS	REPAIRING / RECTIFICATION WORK OF DAMAGED PORTION OF NATURAL DRAFT COOLING TOWER OF BTPS 1X500 MW.	M/s PAHARPUR COOLING TOWERS LIMITED	Single(OES,OEM)	BTPS 1X500MW comprises of one natural draft cooling tower of paharpur make having sl.no. NDCT-10-21-0088.Cooling towers are considered as critical components in thermal power plants. In order to maintain the required back-pressure at the turbine, the turbine outlet steam conditions have to be maintained at the designed value. Without the efficient operation of cooling towers this cannot be achieved because the conversation of steam in a condenser depends mainly on temperature of cooling water inlet to the condenser. Recently there is an incident of collapsing of one portion of cooling tower between the area of 6th, 7th & 8th Raker Column, the primary, secondary & grillage beams has been collapsed. Which results collapsing of entire water distribution systems including distribution pipes and nozzles. The total fills and eliminator blades also collapsed in that area. M/S. PCTL(The OEM/OES of NDCT) has been called for the above mentioned problems, after complete inspection of damaged portion of NDCT the paharpur cooling tower has submitted their report with budgetary offer. As subject job is voluminous and required to be completed in a shortest possible time as non-performance of the NDCT may affect the condenser vacuum. It is, therefore proposed to get the job done by engaging M/S PCTL agency (The OEM/OES of NDCT) on single tendering basis as the said job is technically specialized and critical in nature	DVC/Contract/BTPS/MS-II A/C&M/Works and Service/00012 Dated 30/08/2021	12,70,000.00

4	BTPS	Overhauling/Serviceing of Limitorque make actuators of 1X500 MW Unit DVC,BTPS.	Limitorque India Limited kolkata	Single(OES, OEM)	<p>Total 23 nos(approx.) of Limitorque -Make actuators are installed at IPH area of 1X500 MW Unit of DVC,BTPS and are in continuous/intermittent duty(as per requirement) for motorised operation of different valves pertaining to turbine & its auxiliaries area ,Boiler & its auxiliaries area, etc. The main function of these actuators is to operate the corresponding valves attached to the actuators. These actuators play very vital role in generation of the unit as these are operated frequently to control the various parameters which are in turn very critical from O&M point of view. Thus these have direct impact on the generation of Unit. Hence for smooth and reliable operation of these valves and in turn the unit, healthiness of these actuators is felt very essential.These actuators are needed to be overhauled to enhance their service life as well as to ensure their trouble free smooth operation. In view of the above, it is proposed to go for one time Overhauling/Serviceing by outside agency preferably OEM M/s Limitorque India Limited, as they have expertise in carrying out such job of Overhauling/Serviceing.</p>	DVC/Contract/BTPS/ES-I A/C&M/Works and Service/00042 Dated 30/08/2021	733500
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