Government of Jammu & Kashmir Office of the Executive Engineer, Jal Shakti (PHE) Mechanical Division (North) Sopore Email ID: phe.mdns@gmail.com Website: phekashmir.com No.: PHE/MDNS/DB/ 3534-6/ Dated: 12-08-592 M/s RD Enviro Engineers and Consultants Pvt Limited Rs 77.364 Lacs Adv. Cost: Kishan Garh, Vasant Kunj, New Delhi-110070 Rs 64.831 Lacs Allotted Cost: GST No: 07AAGCR1125A2Z0 Cell No: 9313510382 Electrical and mechanical works to be carried at WSS Laman Chewa Stage 1st and 2nd Subject: under JJM. This office e-NIT No.: e-NIT No. 16 of 2022-23, S. No. 05 issued under Reference: endorsement No.: PHE/MDNS/DB/1619-24, dated: 17-06-2023. Authorization awarded by Member Secretary DJJM Superintending Engineer Jal Shakti (PHE) Hydraulic Circle Baramulla/Bandipore HQ at Sopore issued vide No. 2. 5/2/MYD:/DB/5205-08, dated: 08-08-2023. ******* Dear Sir, For and on behalf of Lt. Governor of J&K UT contract for execution of "Electrical and mechanical works to be carried at WSS Laman Chewa Stage 1st and 2nd under JJM" is hereby awarded to your firm on the quoted/negotiated rates, as per 'General Terms & Conditions' and 'Schedule of cost and quantities' annexed herewith as under: Annexure A: General Terms & Conditions. Annexure B: Schedule of cost and quantities. leaves Executive Engineer Jal Shakti PHÉ Mechanical División (North) Sopore 1. Chief Engineer Jal Shakti (PHE) Department Kashmir, Srinagar for favour of information. District Development Commissioner 5 6, for favour of information. Superintending Engineer Jal Shakti (PHE) Mechanical Circle (North) Srinagar, for favour of 4. Superintending Engineer Jal Shakti (PHE) Hydraulic Circle favour of information.

Copy to the:

Encl.

information.

5. Executive Engineer Jal Shakti (PHE) Division ______, for favour of information.

6. Provisional Head, TPIA JJM Kashmir, (WAPCOS Limited) Corporate Office 76-C Institutional are: Sector-18 Gurugram-122015 (Haryana) for favour of information.

7. Assistant Executive Engineer Jal Shakti (PHE) Mechanical Sub-Division ______ necessary action.

8. File concerned.

for information

Annexure "B" Schedule of cost and quantities
to this office Allotment Order No: PHE/MDNS/DB/_3339-6 dated: 12/58/2023
Electrical Mechanical works to be carried at WSS Laman Stage 1st and 2nd under JJM

Name of work:

S.No.	Item Description	Qty	Units	Rate	Amount
1.	VT Pumping Units: Providing, installation, successful testing and				
	commissioning of vertical turbine pumping unit for 1st stage as per				
	IS 1710 driven by Hollow/Solid shaft VT motor for pumping water				
	from River of following parameters:				
	Site Condition:				
- 1	Altitude = 1580 Meters (AMSL)				
1	Ambient Temperature = +40°C to - 15°C				
- 1	Relative Humidity = 60%				
1	• Levels of site				
	Bottom level of intake channel = Zero Meters				
	Machine Floor level from bottom level of sump = 8 Meters				
- 1	Water column in liner/sump above the bed level = 2 Meters				
	Type of water = Raw water having specific gravity of unity				
- 1	average				
15	A. PUMP				
1	Discharge = 20000 GPH at 85M head				
2	, ,			1	
3					
14					
5.					
6.					
7.					
8.	Line shaft/Head Shaft = Stainless steel				
9.	Total length of line shaft = 10 m or as specified (excluding				
He	ead shaft)				
10.		2	Jobs	1030000.00	2060000.0
11.	Line shaft bearing = Cut less rubber/Neoprene rubber				
12.	Line shaft coupling = Stainless steel				
13.	Suction Strainer = MS fabricated				
14.	Suction Bowl/Bell mouth= Cast Iron				
15.	Pump Bowl = Cast iron				
16.	Bearing: Thrust bearing shall be suitable and of adequate				
100000000000000000000000000000000000000	city to carry the weight of all rotating parts and the hydraulic				
	n thrust. The bearing housing shall have suitable cooling				
	nanism.				
17.	Ratchet: Non-reversing ratchet shall be provide to prevent				
rever	se rotation.				
18.	Column pipe = Mild Steel 150mm VT Pumping Unit dia,				
anti-	corrosive and polished, of wall thickness not less than 12mm				
	ed type in assorted lengths. At least 8 Meters column pipes to				
	ovided with maximum length of 5 feet/length.				
•					
	bowl to be designed with minimum number of stages.		,		
B. Prin	ne Mover				
1.	Type = Vertical hollow shaft, AC squirrel cage induction			V	
notor					
2,	Power Supply = 03 Phase, 41 5V± 10% AC				
	Frequency = 50Hz±3%				
	RPM = 1450 Synchronous				
•	Efficiency = Not less than 85%				
	HP = Corresponding to Head and discharge but not				
	less than 60 HP.				
	Class of insulation = F or above				
			/		
	Type of duty = Continuous			1	1

tion hall bearing/	0				
9. Motor thrust bearing a Anti-friction ball bearing/					
bearing					
10. Method of starting star/delta The motor should be able to with stand fluctuations in voltage are should be conforming to latest IS specifications.	10		1		
The motor should be able to with stand nuclous.					
should be conforming to latest IS specifications.					
C. Accessories Each pump unit shall be provided with suitable discharge he each pump unit shall be provided with suitable di	ead				
Each pump unit shall be provided with suitable discussions with proper stiffening box arrangement, non-reverse ratch with proper stiffening box arrangement, non-reverse ratch are per standard specifications besides all others.	iet,				
with proper stillening box and besides all ou	16.				
coupling etc. as per standard performance of	1110				
accessories required for satisfactory permanent mechanical works required for installation of pumping unit	at				
site are included in the job.					
	ha				
a transfer and fitting of base frame for	ho	1			
installation of the numning units. The base frame	1				
tabeleated out of suitable size ISMB/ISMC members.		1			
frame shall be of robust construction and shall support enti-					
static and dynamic load of pumping unit without any vibration	'				
Providing of test certificate & Characteristic Curve of pumping	d	1			
equipment is compulsory and pumping unit is to be approve		1			
from the concerned authority before procuring/dispatch.					
Original Manufacturer's Test certificates in original to be					
provided with the material before installation.	4				
 VT Pumping Units: Providing, installation, successful testing and commissioning of vertical turbine pumping unit for stage-2nd as per 					
IS 1710 driven by hollow/solid shaft VT motor for pumping water					
from River Jehlum of following parameters:					
Site Condition:					
Altitude = 1580 Meters (AMSL)					
Ambient Temperature = +40°C to - 15°C					
Relative Humidity = 60%	1				
Levels of site		1.			
Bottom level of intake channel = Zero Meters					
Machine Floor level from bottom level of sump = 4 Meters					
Water column in liner/sump above the bed level = 1 Meters					
 Type of water = Raw water having specific gravity of unity 	1				
average					
A. PUMP			1		
1. Discharge = 20000 GPH at 100M head					
2. Type = Self water lubricated, VT pump, open line shaft.					
3. Liquid to be handled = Raw Water			- 1		
4. RPM = 1460	2	J	obs	1030000.00	2060000.00
5. Head = 100 Meters with maximum of 4-5 stages.					
6. Efficiency = Not less than 65-70%					
7. Impeller = Enclosed/semi-enclosed mixed flow all bronze					
8. Line shaft/Head Shaft = Stainless steel 9. Total length of line shaft = 5 m or as specified (oveluding					
9. Total length of line shaft = 5 m or as specified (excluding Head shaft)					
There state - Statiless steel			1		
- Cut less tubbel/Neoprene tubber					
- Stailless steel					
- IVIS labricated					
- Cast Iron					
- Cast Iron					
be suitable and of adamies					
copacity to carry the weight of all rotating parts and the ball					
down thrust. The bearing housing shall have suitable cooling mechanism.					
17. Ratchet: Non-reversing ratchet shall be provide to prevent reverse rotation.					
The fold total tot					

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-	18. Column pipe = Mild Steel 150mm corrosive and polished, of wall thickness						
	corrosive and polished, of wall thicknessed type in assorted lengths. At least	VT Pumping Unit dia, anti-			Pag	je 3 of 11	100
	The Court of the second of the	- included in the state of the					1
	Provided with mani-	incleis column pipes to					-
	only bowl to be designed with	number of stages					
		1					
	motor Type = Vertical hollow shaft,	AC squirrel cage induction					
	2. Power Supply = 03 Phase, 41 5	V+ 10% AC					
	3. Frequency = 50Hz±3%	V2 10/0/1C					
	4. RPM = 1450 Synchronous						
	5. Efficiency = Not less than 85%						
		ad and discharge but not					
	less than 60 HP.						,
	7. Class of insulation = F or above	:					
	8. Type of duty = Continuous						
	9. Motor thrust bearing = Anti-	friction ball bearing/roller					
	bearing 10. Method of starting - star/dol						
	- Startue	70.041.010.0					
	The motor should be able to with stand flu						
	should be conforming to latest IS specifica C. Accessories	itions.					
	Eden pump unit shan be provide						
	head with proper stiffening box						
	ratchet, coupling etc. as per			1			
	besides all other accessories						
	performance and mechanical installation of pumping unit at sit						
	D. Base Frame	te are included in the Job.					
	Fabrication, providing and fitting	og of base frame for the		1			
	installation of the pumping uni						
	fabricated out of suitable size						
	base frame shall be of robus						
	support entire static and dynamic						
	without any vibration.	inc load of pullipling utilit					
	Providing of test certificate 8	Characteristic Curve of					
	pumping equipment is compulse						
	be approved from the con-						
	procuring/dispatch.	dutilonity before		1			
	Original Manufacturer's Test ce	rtificates in original to be					
	provided with the material befor	e ilistaliation.					
	Delivery manifold/Y-junction: Providing/s	upplying and fitting of G.I					1
	flanged Rising Main at site for stage 1st	and 2 nd . The Pipe shall be			1		
	hot dip Galvanized, class C confirming to	IS 1239. The job includes			1		
	providing and fitting of M.S Flanges con						
	(Rating PN16) for fabrication of delivery						
	site requirement. The flanges shall be						
	inside and outside of the pipe using stan						
	make.						
-	Flanges (as per IS 6392/1997)						
	Thickness shall conform to IS 6392 Part	t 1st Table-17. The flange	40	Meters	3075.00	123000.00	
1	welding shall be carried out in double la		10	Wictors	3073.00	123000.00	
		ayers using reputed make					
	electrodes to form strong welding joint.						
	Welding Electrode	h = : : = = = = = = = = = = = = = = = =					
	DC Arc Welding using welding electrode	naving diameter not less					
	than 4mm.						
	Nuts and Bolts						
	Nuts and Bolts (conforming to IS:1363 Par	t 1st)					
	Rubber Insertion Gaskets						
	Rubber Insertion Gaskets (conforming t	o IS: 638/79) to be used					
				Y	_		

				To wood	ler co
between flanged joints. The main technical specifications of the			10	1522	Powo minat
pipe are given here under:				5000	Pet 187
Size : 150 mm					Silic
Class: C (Heavy)					7
The job also includes providing fitting of 100mm dia washout					
connection in the delivery mainfold.					
I I I I I I I I I I I I I I I I I I I	J				
regulating the water supply outside the pumping units for stage 1st	,				
	J				
and 2 nd . Size: DN150	,				E STATE OF THE PARTY OF THE PAR
	<u> </u>				
the walve shall be of ductile iton, weaks	,				lectr
the standard comment of the standard comments	7				reby
the Cate/Sluice valve shall be compatible to					
applications and shall be safe to install in both horizontal	4	No	25977.00	103908.00	le o
a' I esitions	7				
It shall have electrostatic epoxy coating (approved for drinking water) both inside and outside of the valve. The valve shall be	7				1
supplied along with hand wheel.)	
Cost on account of Nuts, bolts, gaskets, etc required for the job is	<i>y</i>			1	
included in the scope of work.	"			/	
The job includes providing and fitting of 02 nos. M.S flanges (PN16)					
perfectly adaptable to the inbuilt flanges of the valve which shall be	/				
fitted with rising main of the pumping unit at appropriate spots as	<i>y</i>				
per site requirement. The job includes the cost on account of P/F or					-
nuts, bolts and gasket required for the job.					
5. Providing and fitting of Ductile Iron double flanged, Slanted seat swing check valve(NRV) as per IS 5312 for stage 1st and 2nd.	,)			
Size: 150 mm	,)			
Size: 150 mm PN: 1.6/16	1/	1			
The body shall be of ductile cast iron with fully encapsulated		1		(
vulcanized EPDM rubber (Approved for drinking water). The valve		1		1	
shall be compatible for buried applications and shall be safe to			1		
install in both horizontal and vertical positions.	4	No	32205.00	128820.00	
It shall have electrostatic epoxy coating (approved for drinking	4	NO	32203.00	1200	
water) both inside and outside of the valve.			,		
Cost on account of Nuts, bolts, gaskets, etc required for the Job Is					
included in the scope of work.					
The job includes providing and fitting of 02 nos. M.S flanges (PN16)					
perfectly adaptable to the inbuilt flanges of the valve which shall be					
fitted with Rising main of the pumping unit at appropriate spots as					
per site requirement. The job includes the cost on account of P/F of					
nuts, bolts and gasket required for the job.					
Providing, fitting, testing and commissioning of voltage stabilizer					
for stage 1 st and 2 nd as per specifications below:					
Rating:: 100KVA					
Type of voltage controller: Manually operated copper wound, 3-					
phase, AC power supply multi step.					
Type of Regulator : Double plate type with electrolytic					
copper contacts.					
Input voltage : 250-400 volts.(3 phase)		NIO	106466.00	0 785864.0	00
Output voltage : 400 ±10% volts.	4	No	196466.00	/ / / / / / / / / / / / / / / / / / / /	
Frequency : 50 ±3 C/S.					
Windings : Electrolytic grade copper of adequate					
section, vacuum impregnated and Oven-dried.					
Insulation : Fiber glass insulations to tested					
Cooling . Naturally Oil cooled					
Cooling : Naturally, Oil cooled					
Temp. Rise (Max): 30°C above ambient					
Mounting : On Uni-directional wheels.					

10				Day	ge 5 of 11
	Correction rate : 30 volts per step			Pag	Je John T
1	Wave form distortion : virtually mil				
- 4	Duty cycle . 100% continuous				
	: MS sheet enclosure in pressed CGR				Y Control of the Cont
	Sheet powder coated with radiators.				
	Core laminates : High grade, low eddy loss, grain oriented				;
	Silicon steel laminations.				
	Load : Three phase induction motor load. Load Amperes (continuous)				
	Overload in 24-hours operation: 10% above continuous Ampere				
	rating.				
	The voltage stabilizer shall have T-oil level indicator gauge				
	preferably glass type tube or otherwise visible to naked eye. The				\ n
	top of the container to have a display panel for housing 02 numbers				n ''
	Digital voltmeters (0-500V) along with 4-way selector switch and set				
	of neon indicators for incoming and outgoing phases (06 No's). Insulating media (T. Oil) of 11 KVA grade to be provided and filled				
	up to top level, with dielectric strength of 5 KV at 4m air gap. The T-				'r
	Oil of specific grade should be provided in separate barrels and				
	filled at site up to top level.				1
	The voltage Stabilizer shall be accepted with manufacturers dully				
	stamped test certificate and shall have name plate with				
	specifications.				
	Manufacturers test certificate to be appended .				
7.	Distribution Cables:				
	Providing, Installation, testing of multi-stranded copper conductor				
	PVC insulated single core unsheathed 50mm sq. Copper cable for			1	
	internal distribution wiring for stage 1 st and 2 nd conforming to IS:	450.00	Meters	780.00	351000.00
	7098(part -1) 1988 with latest amendments. The job includes	450.00	Wicters		
	providing and fitting of suitable rating copper thimbles duly crimped				
	and taped at conductor ends by hydraulic crimping tool. The job				
	includes earth work in excavation wherever required for laying of				
	cable underground.				
8.	Providing and Fitting of 120 sqmm single core LT 1.1 KV, XLPE				
	Armoured Aluminium Cable conforming to IS: 7089 part 1st as				
1	service line from the HT transformer/DG set to control panel				02000 00
	including necessary thimbling, crimping, taping etc for stage 1st and	270.00	Meter	344.00	92880.00
1	2 nd .				
	NOTE:- The cable terminal ends for connection to switchgear at				
	various requisite points shall be Al. Thimbles of appropriate size and				
	connected by hydraulic crimp tool only .				
9.	Providing and Fitting of 50 sqmm 3.5 core LT 1.1 KV, XLPE Armoured				
	Aluminium Cable conforming to IS: 7089 part 1st as service line				
1 f	rom the HT transformer/DG set to control panel including				44720.00
1	ecessary thimbling, crimping, taping etc for stage 1st and 2".	90.00	Meter	497.00	44730.00
	OTE:- The cable terminal ends for connection to switchgear at				
1.7	arious requisite points shall be Al. Thimbles of appropriate size and				
"	onnected by hydraulic crimp tool only.				
10 0	esign, manufacturing, providing, fitting, testing & commissioning				
10. D	esign, manufacturing , providing , fitting, testing a commence				
of	Star-delta Motor control Panel for stage 1st and 2nd				
Th	e Star-delta Motor control Panel shall be fabricated out of 2 mm				
CF	CA Sheets Modular, compartmentalized, Free Standing, Floor				
10	ounting, Front hinged doors for indoor use, removable bottom				
IVI	Juniling, Front liniged doors for indoor doe, remin proof (IP:42)				
gla	nd plates for incoming cables, dust and vermin proof (IP:42	2	Job	355811	.00 711622.00
	tection) with TP Aluminum Buses, complete with connection,		305	333011	
	ernal wiring, neon indicators for each phase ,starter buttons,				
nai	ne plates, painting ,vents etc. All panel compartments shall be	2			
The second secon	vided with suitable cable alley and vertical bus bar alley. Suitable				
	regation shall be provided in between bus bar chamber and				
_					
,	pining compartments. The bus bar shall be PVC sleeved with				
cold	or strips of red, yellow, blue and black and the same be arranged	t			
				\/	

in accordance with IS-375 specs. Electrical clearances shall be maintained between phases, neutral and body as per standards. The control panel shall be furnished as per detail given below: Rated Voltage of the Panel ---- 440 Volts Frequency ---- 50 HZ No of Phases ---- Three Enclosure Details ----- Free Standing, Floor mounted, Compartmentalized Design. Material ---- CRS Thickness of sheet steel used ---- 02mm Application ---- Indoor Cable Entry ---- Bottom Painting ---- Shade Siemens grey. a) Main Circuit Breaker (Incomer MCCB) Type ---- Front Operated micro processor release type on load 4 pole Qty ---- 1 Nos No. of poles ---- 4 Current Rating..... 250 Amp Rated operational voltage---- 415 V AC ± 15% Rated frequency ---- 50 ± 3% Hz Ultimate S.C Breaking cap at (415 volt A C, 50 Hz) ---- 50kA Type ---- Microprocessor control b) Distribution bus bar Type -----Electric grade AL with red, blue & yellow tapings Of adequate section. Rating ---- 200 Amp c) Change over Switch Qty ---- One Type ----- Front Operated on load 4 pole (open execution) Rating ---- 200 Amp d) Motor protection Circuit Breaker units Type ---- MPCB Qty ---- 2 Nos No. of poles----3 Rated current ----160-200 Amp Rated operational voltage---- 415 V ± 15% Rated frequency ---- 50 ± 3% Hz Ultimate S.C Breaking capacity at (415 volt A C, 50 Hz) ----- 36kA e) Starters (FASD) 75HP Power Specification ----3 phase, 415 ± 15% v & 50 Hz Contactors: MNX / Schneider Line Contactor ---- AC3 110 A Delta Contactor --- AC3 110 A Star Contactor ---- AC3 90 A Timer ---- Star Delta Electronic Overload relay - direct/CT operated (60-110A range) Coil Voltage: 220/240V Qty ---- 2 No's Aux. panel for heating and lighting Circuit breaker---MCCB

	appection to switchgear at	nd			
12.	NOTE:- The cable terminal ends for connection to switchgear at various requisite points shall be Al. Thimbles of appropriate size an connected by hydraulic crimp tool only. Providing and Fitting of 50 sqmm 3.5 core LT 1.1 KV, XLPE Armoure Aluminium Cable conforming to IS: 7089 part 1st as service line from the HT transformer/DG set to control panel including necessary thimbling, crimping, taping etc for stage 1st and 2nd, necessary thimbling, crimping, taping etc for stage 1st and 2nd.	90.0	00 Me	ter 497.0	0 44730.00
13. Store	various requisite points shall be Al. Thimbles of appropriations requisite points shall be Al. Thimbles of appropriations requisite points shall be Al. Thimbles of appropriation of square of the structural work in built up tubular (round, square of	3200	Kg	135.00	432000.00
14. Prochasta Gea stee box tem Load havii accu safet Load bearii whee	e time of execution of job. oviding, installation and testing of manual type triple spur gear oviding, installation and testing of manual type triple spur gear ain pulley block along with monorail geared travelling trolley for age 1st having following features ars:- The hoist shall have precision machine case Hardened alloy el gear mounted on bearings and housed in a dust proof gear and the second of gears should be of high viscosity and apperature for longer life of gears. In the lubrication of gears should be of high tensile alloy steel and chain:- The load chain be made of high tensile alloy steel argument in the second of the second	2	Job	62970.00	125940.00
Providing pole (statickness arranger following 1) The job is structure having 15 should be requirement to job at flexible in the pole at flexible in	Min. Height of lift ation of Premises for stage 1 st and 2nd: ng and erection of 9 Mtr long Hot Dip Galvanized Octagonal single Section) with bottom 150mm, top 75mm wide, single Section) with bottom 25mm, top 75mm wide, single Section) with power coating having inside set at the top providing of power connection along with at the top having 120° angle between arms and each arm set of 2' length and size and shape appropriate as per ent of the luminary. also includes providing and fitting of required length of multi strand 2 mm copper wire from each terminal	2	Job	22226.00	44452.00
than 2'x2'	is mounted on 1:2:4 Cement concreting of size not less x6" (cost of concreting not included in the job) using 04 x bolts of required size not less than 7" in length. The job includes earthing in GI Electrode as per relevant IS				

1 (IDOPAL - *	1	No.29 for stage 1							Page 9 of 11
Fower Factors 2019 Solar Temperature: 4K-6.5K Seam Angles 120'-170' Operation 12000 Operation	\	Having following	st and 2nd						
Power Factor 3-09 Colour Temperature: 44 - 6.5 K	A	Input: 90-240 V 50	0 Hz						
Continuing the continuing to t	A	Power Factor: >0.	9						
Continuing the continuing to t	APPLE	Colour Temperatu	ire: 4K - 6.5K						
Operating temperatures: 20°C to 60°C The LED is proserved de cast aluminum housing with power coated finish and having ingress Protection up to 19°-88. The LED is properly fixted on the arm of the pole and connected to the copper wire as provided in the high mast pole. Providing, and installation of Junction Box with DP 32 A MCB to serve as Main switch for LED tighting, The job includes making of electric connection to the circuit. 18. Providing, Installation and resting of 22WA fully automatic voltage stabilizer with input voltage 70°-240 and output 220° for stage 1° and 2nd. The stabilizer shall be installed and connected to the electric circuit as per location provided by side in charge. 19. Supply, installation, Teiting & commissioning of 1000VA Full Sine wave power inverter including Providing / Installation of 12V, 180AH Tubular inverter Battery with trolley and cover, with 2-core 4 mm2 Cu (25° m) wiring as per site requirement along with other accessories like SS-Combine (02 Nos), 3-pin plugs etc of reputed make for proper fitment and installation of the Hem. 20. Providing, Iaying & forting of 3 slock proof rubber mats with adhesive/bonding material on the floor of the pump house, covering area around electro-mechanical machinery for safeguarding the life & limb of the workmen due to possible leakage of current & short circuit for stage 1° and 2nd. The floor surface shall be made good & shall be free from dust, grease, foreign material & moisture free. The mats shall be as per fs 15652:2006 & shall have the following specifications: Composition: Rubber (synthetic mats for electrical purpose) Thickness: -2.5mm Size: -1M wide. The Tool Kit for maintenance for stage 1° and 2°°C. The Tool Kit for maintenance shall be of: Providing of fool kit consists of following items Double ended Ring spanners chrome plated 02 sets complete Allen key set black finish 02 sets complete Combination Pilers insulated with thick CA sleeve; size in mm 165, 205 make -02 No. Insulated screw Drivers Blade length Blade di	A	beam Angle: 120°	- 170°						
finesh and having Ingress Protection up to IP-68. The LED is properly fitted on the arm of the pole and connected to the Copper was a provided in the light mast pole. 17. Providing and installation of Junction Box with DP 32 A MCB to serve as Main switch for LED Ughtin, The job includes making of electric connection to the circuit. 18. Providing Installation and testing of 2RVA fully automatic voltage stabilizer with input voltage 70-240 V and output 220 V for stage 1 st and 2nd. The stabilizer shall be installed and connected to the electric circuit as per location provided by site in charge. 19. Supply, installation, Testing & commissioning of 1000VA Full Sine wave power inverter including Providing / Installation of 12V, 180AH Tubular inverter Battery with trolley and cover, with 2-core 4 mm2 Cu (2s m) wiring as per site requirement along with other accessories like Schombie (02 Not), 3-pin plug set of reputed make for proper fitment and installation of the item. 20. Providing, laying & fining of shock proof rubber mats with adhesive/bonding material on the floor of the pump house, covering area around electro-mechanical machinery for safeguarding the life & limb of the workmen due to possible leakage of current & short circuit for stage 1 st and 2nd. The floor surface shall be made good & shall he free from dust, grease, foreign material & moisture feer. The mats shall be as per IS 15652:2006 & shall have the following specifications: - Composition: Rubber (cuttle for stage 1 st and 2nd. The floor Kirf for minimanes shall comprise of the following and all the items as mentioned below shall be of: Providing of tool kit consists of following items Double ended Spanner (Chrome plated) 02 sets complete Obuble ended Ring spanners chrome plated 02 sets complete Allen key set black finish 02 sets complete Combination Pilers insulated with thick CA sleeve; size in mm 165, 205 each – 02 No. Insulated screw Drivers Blade length Blade dia Tip dimensions Quantity In mm in mm in mm in mm in mm in mm in mm	KU /								
The LLD is properly fitted on the arm of the pole and connected to the copper were as provided in the high mast pole. 17. Providing, and installation of Junction Box with DP 32 A MCB to serve as Main swatch for LED Lighting. The job includes making of electric connection to the circuit. 18. Providing, Installation and resting of 2xVA fully automatic voltage stabilizer with input voltage 70-240 van doutput 220 V for stage 1" and 2nd. The stabilizer shall be installed and connected to the electric circuit as per location provided by site in charge. 19. Supply, installation. Testing & commissioning of 1000VA Full Sine wave power inverter Battery with trolley and cover. with 2-core 4 mm2 Cu (25 m) wiring as per site requirement along with other accessories like Sc-Combine (02 No's), 3-pin plugs etc of reputed make for proper fitment and installation of the Item. 20. Providing, Laying & fixing of shock proof rubber mats with adhesive/bonding material on the floor of the pump house, covering area around electro-mechanical machinery for safeguarding the life & limb of the workmen due to possible leakage of current & short circuit for stage 1" and 2nd. The floor surface shall be made good & shall be free from dust, grease, foreign material & moisture free. The mats shall be as per IS 15652:2006 & shall have the following specifications: 20. Composition: Rubber (synthetic mats for electrical purpose) Thickness: -2.5mm Size: -1M wide. The roble mats shall be accepted with manufacturers test certificate. 21. TOOL Kit for maintenance shall comprise of the following and all the items as mentioned below shall be to fire providing of tool kit consists of following items Double ended Spanner (Chrome plated) 02 sets complete Allen key set black finish 02 sets complete Obuble ended Ring spanners chrome plated 02 sets complete Allen key set black finish 02 sets complete on the plant of the	2'	The LED is	ature: -20°C to 60°C						
The LLD is properly fitted on the arm of the pole and connected to the copper were as provided in the high mast pole. 17. Providing, and installation of Junction Box with DP 32 A MCB to serve as Main swatch for LED Lighting. The job includes making of electric connection to the circuit. 18. Providing, Installation and resting of 2xVA fully automatic voltage stabilizer with input voltage 70-240 van doutput 220 V for stage 1" and 2nd. The stabilizer shall be installed and connected to the electric circuit as per location provided by site in charge. 19. Supply, installation. Testing & commissioning of 1000VA Full Sine wave power inverter Battery with trolley and cover. with 2-core 4 mm2 Cu (25 m) wiring as per site requirement along with other accessories like Sc-Combine (02 No's), 3-pin plugs etc of reputed make for proper fitment and installation of the Item. 20. Providing, Laying & fixing of shock proof rubber mats with adhesive/bonding material on the floor of the pump house, covering area around electro-mechanical machinery for safeguarding the life & limb of the workmen due to possible leakage of current & short circuit for stage 1" and 2nd. The floor surface shall be made good & shall be free from dust, grease, foreign material & moisture free. The mats shall be as per IS 15652:2006 & shall have the following specifications: 20. Composition: Rubber (synthetic mats for electrical purpose) Thickness: -2.5mm Size: -1M wide. The roble mats shall be accepted with manufacturers test certificate. 21. TOOL Kit for maintenance shall comprise of the following and all the items as mentioned below shall be to fire providing of tool kit consists of following items Double ended Spanner (Chrome plated) 02 sets complete Allen key set black finish 02 sets complete Obuble ended Ring spanners chrome plated 02 sets complete Allen key set black finish 02 sets complete on the plant of the	57	finish and having	e die cast aluminum h	ousing w	vith power coated				
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serve as Main switch for LED Lighting, The Job Includes making of electric connection to the circuit. 18. Providing, Installation and testing of ZeVA fully automatic voltage stabilizer with input voltage 70-240 V and output 220 V for stage 1" and 2nd. The stabilizer shall be installed and connected to the electric circuit as per location provided by site in charge. 19. Supply, Installation, Testing & Commissioning of 1000VA Full Sine wave power inverter including Providing, Installation of 12V, 180AH Tubular inverter Batter with trolley and cover. with 2-core 4 mm2 Cu (25 m) wining as per site requirement along with other accessories like S-Combine (02 Noil), 3-pin plugs et of reputed make for proper fitment and installation of the item. 20. Providing, Isalying & fixing of shock proof rubber mats with adhest-ey-bonding material on the floor of the pump house, covering area around electro-mechanical machinery for safeguarding the file & limb of the workmen due to possible leakage of current & short circuit for stage 1" and 2nd. The floor surface shall be made good & shall be free from dust, grease, foreign material & moisture free. The mats shall be as per IS 15652:2006 & shall have the following specifications: Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide. The roubber mats shall be accepted with manufacturers test certificate. 21. TOOL KIT For Maintenance for stage 1" and 2nd; The Tool Kit for maintenance shall comprise of the following and all the items as mentioned below shall be of: Providing of tool kit consists of following items Double ended Spanner (Chrome plated) 20 sets complete Double ended Spanner (Chrome plated) 20 sets complete Double ended finis spanners chrome plated 02 sets complete Combination Pilers insulated with thick C.A sleeve; size in mm 165, 210, 255 each – 02 No. Insulated screw Drivers Blade length Blade dia Tip dimensions Quantity In mm In		the copper wire as	y fitted on the arm of the provided in the bight	the pole	and connected to				
serve as Main switch for LED Lighting. The job includes making of electric connection to the circuit. 18. Providing, Installation and testing of 2kVA fully automatic voltage stabilizer with injury voltage 72-240 v and output 220 v for stage 1stall and 2nd. The stabilizer shall be installed and connected to the electric circuit as per location provided by site in charge. 19. Supply, installation, Testing & commissioning of 1000VA Full Sine wave power inverter including Providing / Installation of 12V, 180AH Tubular inverter Battery with trolley and cover, with 2-core 4 mm2 Cu (25 m) wiring as per site requirement along with other accessories like Sc-Combine (02 NoS), 3-pin plays et of reputed make for proper fitment and installation of the Item. 20. Providing, laying & fixing of shock proof rubber mats with adhesive/bonding material on the floor of the pump house, covering area around electro-mechanical machinery for safeguarding the life & limb of the workmen due to possible leakage of current & short circuit for stage 1st and 2st 3. The floor surface shall be made good & shall be free from dust, grease, foreign material & moisture free. The mats shall be a sper IS 15652:2006 & shall have the following specifications: - Composition: Rubber (synthetic mats for electrical purpose) Thickness: -2.5mm Stree: -1M wide. The rook IKI for maintenance shall comprise of the following and all the items as mentioned below shall be of: Providing of tool kit consists of following items Double ended fign gapanner (Chrome plated) 02 sets complete Double ended figns papner (Chrome plated) 02 sets complete Combination Pliers insulated with thick C.A sleeve; size in mm 165, 210, 255 each – 02 No. Insulated screw Drivers Blade length Blade dia Tip dimensions Quantity In mm in mm in mm in mm in mm in mm 50 3 1.6 x 0.4 02 75 3 1.6 x 0.4 02 100 3 3.5 3.5 x 0.5 02 200 4 4 x 0.6 02 200 4 4 x 0.6 02 200 5 5 x 0.8 02	17.	Providing and inst	allation of Junction B	ast pole.	DP 32 A MCB to				
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and 2nd. The stabilizer shall be installed and connected to the electric circuit as per location provided by site in charge. 19. Supply, installation, Testing & commissioning of 1000VA Full Sine wave power inverter including Providing / Installation of 12V, 180AH Tubular inverter Battery with trolley and cover. with 2-core 4 mm2 Cu (25 m) wiring as per site requirement along with other accessories like SS-Combine (02 Nofs), 3-pin plugs etc of reputed make for proper fitment and installation of the item. 20. Providing, laying & fixing of shock proof rubber mats with adhesive/bonding material on the floor of the pump house, covering area around electro-mechanical machinery for safeguarding the life & limb of the workmen due to possible leakage of current & short circuit for stage 1 st and 2nd. The floor surface shall be made good & shall be free from dust, grease, foreign material & moisture free. The mats shall be as per IS 15652:2006 & shall have the following specifications: Composition: Rubber (synthetic mats for electrical purpose) Thickness: -2.5mm Size: -1M wide. The rubber mats shall be accepted with manufacturers test certificate. 21. TOOL KIT For Maintenance for stage 1 st and 2 nd . The Tool Kit for maintenance shall comprise of the following and all the items as mentioned below shall be of: Providing of tool kit consists of following items Double ended Spanner (Chrome plated 02 sets complete Allen key set black finish 02 sets complete Combination Pilers insulated with thick C.A sleeve; size in mm 165, 210, 255 each -02 No. Long nose piler insulated with thick C.A sleeve; size in mm 165, 205 each -02 No. Insulated screw Drivers Blade length Blade dia Tip dimensions Quantity In mm in mm in mm 50 3 1.6 x 0.4 02 75 3 1.6 x 0.4 02 100 3 3.5 3.5 x 0.5 02 200 4 4 x 0.6 02 300 5 5 x 0.8 02	18.	Providing, Installati	on and testing of 2KV	A fully a	utomatic voltage				
and 2 And. The stabilizer shall be installed and connected to the electric circuit as per location provided by site in charge. 19. Supply, installation, Testing & commissioning of 1000VA Full Sine wave power inverter including Providing / Installation of 12V, 180AH Tubular inverter Battery with trolley and cover, with 2-core 4 mm2 Cu (25 m) wiring as per site requirement along with other accessories like Sc.Combine (02 No.5), 3-pin pluge et cof reputed make for proper fitment and installation of the item. 20. Providing, laying & fixing of shock proof robber mats with adhesive/bonding material on the floor of the pump house, covering area around electro-mechanical machinery for safeguarding the life & limb of the workmen due to possible leakage of current & short circuit for stage 1 st and 2nd. The floor surface shall be made good & shall be free from dust, grease, foreign material & moisture free. The mats shall be as per IS 15652:2006 & shall have the following specifications: Composition: Rubber (synthetic mats for electrical purpose) Thickness: -2.5mm Size: -1M wide. The rubber mats shall be accepted with manufacturers test certificate. 21. TOOL Kit For Maintenance for stage 1 st and 2 nd : The Tool Kit for maintenance shall comprise of the following and all the items as mentioned below shall be of: Providing of tool kit consists of following items Double ended Spanner (Chrome plated) 02 sets complete Allen key set black finish 02 sets complete Combination Pliers insulated with thick C.A sleeve; size in mm 165, 210, 255 each -02 No. Long nose plier insulated with thick C.A sleeve; size in mm 165, 205 make -02 No. Side cutting plier insulated with thick C.A sleeve; size in mm 165, 205 make -02 No. Side length Blade dia Tip dimensions Quantity In mm In mm In mm In mm In mm In mm In mm So 3 1.6 x 0.4 02 3 3.5 3.5 x 0.5 02 3 5 5 x 0.8 02		stabilizer with input	voltage 70-240 V and	output 2	20 V for stage 1st	2	Job	8154.00	16308.00
19. Supply, installation, Testing & commissioning of 1000VA Full Sine we power inverter including Providing / Installation of 12V, 180AH Tubular inverter Battery with trolley and cover, with 2-core 4 mm2 (20 fm) wiring as per site requirement along with other accessories like SSC-ombine (02 No/s), 3-pin plugs et of reputed make for proper fitment and installation of the item. 2 Providing, laying & fixing of shock proof rubber mats with adhesive/bonding material on the floor of the pump house, covering area around electro-mechanical machinery for safeguarding the life & limb of the workmen due to possible leakage of current & short circuit for stage 11s and 2nd. The floor surface shall be made good & shall be free from dust, grease, foreign material & moisture free. The mats shall be as per IS 15652:2006 & shall have the following specifications: Composition: Rubber (synthetic mats for electrical purpose) Thickness: -2 Smm Size: -1 M wide. The Tool Kit for maintenance for stage 1st and 2st. 21. TOOL KIT For Maintenance for stage 1st and 2st. The Tool Kit for maintenance shall comprise of the following and all the items as mentioned below shall be of: Providing of tool kit consists of following items Double ended Spanner (Chrome plated) 02 sets complete Allen key set black finish 02 sets complete Combination Pilers insulated with thick C.A sleeve; size in mm 165, 210, 255 each –02 No. Long nose piler insulated with thick C.A sleeve; size in mm 165, 205 each –02 No. Side cutting piler insulated with thick C.A sleeve; size in mm 165, 205 make –02 No. Side cutting piler insulated with thick C.A sleeve; size in mm 165, 205 make –02 No. Side cutting piler insulated with thick C.A sleeve; size in mm 165, 205 make –02 No. 100 3 1.6 x 0.4 02 100 3 3.5 3.5 x 0.5 02 100 4 4 4 x 0.6 02 100 4 4 4 x 0.6 02 100 5 5 x 0.8 02							1		
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180AH Tubular inverter Battery with trolley and cover. with 2-core 4 mm2 Cu (25 m) wiring as per site requirement along with other accessories like SS-Combine (02 No's), 3-pin plugs etc of reputed make for proper fitment and installation of the Item. 20. Providing, Isying & fixing of shock proof rubber mats with adhesive/bonding material on the floor of the pump house, covering area around electro-mechanical machinery for safeguarding the life & limb of the workmen due to possible leakage of current & short circuit for stage 1 st and 2nd. The floor sufface shall be made good & shall be free from dust, grease, foreign material & moisture free. The mats shall be as per IS 15652:2006 & shall have the following specifications: - Composition: Rubber (synthetic mats for electrical purpose) Thickness: -2.5mm Size: -1M wide. The rubber mats shall be accepted with manufacturers test certificate. 21. TOOL kit For Maintenance for stage 1 st and 2 ^{md} ; The Tool kit for maintenance shall comprise of the following and all the items as mentioned below shall be of: Providing of tool kit consists of following items Double ended Ring spanners chrome plated 02 sets complete Allen key set black finish 02 sets complete Combination Pliers insulated with thick C.A sleeve; size in mm 165, 210, 255 each –02 No. Iong nose plier insulated with thick C.A sleeve; size in mm 165, 205 each — 02 No. Insulated screw Drivers Blade length Blade dia Tip dimensions Quantity In mm in mm in	, ,		A CONTRACTOR OF THE PROPERTY O						
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covering area around electro-mechanical machinery for safeguarding the life & limb of the workmen due to possible leakage of current & short circuit for stage 1 st and 2nd. The floor surface shall be made good & shall be free from dust, grease, foreign material & moisture free. The mats shall be as per IS 15652;2006 & shall have the following specifications: Composition: Rubber (synthetic mats for electrical purpose) Thickness: - 2.5mm Size: - 1M wide. The rubber mats shall be accepted with manufacturers test certificate. 21. TOOL KIT For Maintenance for stage 1 st and 2 nd ; The Tool Kit for maintenance shall comprise of the following and all the items as mentioned below shall be of: Providing of tool kit consists of following items Double ended Spanner (Chrome plated) 02 sets complete Allen key set black finish 02 sets complete Combination Pilers insulated with thick C.A sleeve; size in mm 165, 210, 255 each – 02 No. Long nose piler insulated with thick C.A sleeve; size in mm 165, 205 each – 02 No. Side cutting piler insulated with thick C.A sleeve; size in mm 165, 205 make – 02 No. Insulated screw Drivers Blade length Blade dia Tip dimensions Quantity in mm in mm in mm 50 3 1.6 x 0.4 02 75 3 1.6 x 0.4 02 100 3 3 3 x 0.4 02 125 3.5 3.5 x 0.5 02 100 3 3.5 x 0.5 0.5 02 100 4 4 4 x 0.6 02 300 5 5 5 x 0.8 02									
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75		2			02				
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200 4 4 x 0.6 02 300 5 5 x 0.8 02					350465				
300 5 5 x 0.8 02					NOT CONTRACT.				
		4		, Mariantee	02		N. Carlotte		
VIII. Hammer with handle weight – 110 mg, 340 gm , 600 gm –each		5		10111					
	viii. Ham	mer with handle	weight – 110 mg, 340) gm , 6	00 gm –each			/	

			T		10 de
					31.
	- 1No ix. Heavy duty pipe Wrench length in mm - 200, 300, 600 each - 01				'm'
	No.			+4,	
	x. Electric Multimeter =1No				
	xi. Digital multimeter – 1No.				
	xi. Digital multimeter – 1No. xii. Digital Clamp tester capable to measure up to 400A - 1 No.				
	xiii. Hack saw frame with hack saw blade – 01 no. xiv. S-16 MXL, S- 16 H X L Socket Set (19 sockets + 6 Accessories) –	9.0			
	XIV. S-16 MXL, S- 16 H X L SOCKET SET (15 SET)				
22.	01 No. Providing of good quality convenience and utility items as per				
22.	following details for stage 1st and 2nd				
	following details for stage 1st and 2" a) Providing of good quality bedding for night stay/Shift consisting				
1 1 .	of.				
li) Mattress with warm cover size 6'x3' (6Kg)- 02 No's				
i	i) Quilt with warm cover size 5'x8' (6Kg)- 02 No's				
1 1.	ii) Pillows with covers - 02 No's v) Single bed warm blankets with one sided Fur- 02 No's				
	the filling material for mattress, quilt and pillow shall be of good				
1	l'an antana		Job	39619.00	79238.00
1 1	The job also includes providing of pressure cooker Sitt 02 No 3,				
1 10	tool potalla (utonsil) 5ltrs 02 No's, cooking healer of No., Tooling	1			
1	nator Of No. steel buckets 10 litre capacity Of No., Plastic bucket				
10	O litré capacity with Mug 02 No's each, steel glasses 06 No's, steel				
PI	ates with large spoons and bowls 03 No's each, Cup and Saucer of (01 No. Set) and, 5kg Gas cylinder with burner/ stove. The job				
se	so includes providing of thermo-cool 15'x12' along with excel				
l m	atting of 15'x12' size. The job also includes providing of				
1 1	broakable Plastic Chair table set consisting of chairs 04 NOS,				
ext	tra heavy Table 01 No. The job also includes providing of good				
au:	ality safety Door locks (03 No's), Link locks,				
23. Fat	prication of 6' x 6' angle iron bed by way of providing and fitting	-			
of s	Structural steel in built up sections, trusses and framed work,	189.50	Kg	114.00	21603.00
incl	uding cutting, hoisting, fixing in position and applying a priming tof approved steel primer all complete welded for stage 1st and				
2nd					
24 Prov	viding and fitting of 19 mm thick multi-layered ply sheet of size 6				
1 4 2	feet 2 no's including cutting, fixing all complete including	36.00	sft	150.00	5400.00
pain	ting of the play sheet by one coat of primer and two coats of				
	nol paint for stage 1st and 2 nd				
25 Provi	iding of solar/ electrical lantern chargeable on both solar &	2	Job	1911.00	3822.00
alacti	rical 220v supply for stage 1st and 2"				
26. Provid	ding of 1 KW heat convector for operators for winter season	2	Job	1205.00	2410.00
for ct.	age 1st and 2 nd				
27. Provid	ding and fitting of 01 No. LED (scroll type) sign board	18	Sft	3998.00	71964.00
fabrica	ated out of stainless steel and metal for stage 1st and 2nd				
28. Provid	ling & fitting of lighting points for (machine room , operators				
room,) as per site requirement in 1.5 mm² multistranded single core				
1100 \	volts, pvc insulated copper conductor through pvc conduit	16	Job	1680.00	26880.00
pipe b	y way, switches, socket modules, regulators, indicators,				
08/10	watt LED lamps Surface light MakeIncluded is cost on				
accoun	nt of modular switch boards with the wooden frames as per				
site rec	quirements for stage 1st and 2nd				
' !'	ng fitting of heating points in 2.5mm² multistranded single 100 volts, pvc insulated copper conductor through pvc				
29. Providi	THE PARK DUE INCUITION COURSE COMMUNICAL MINUS DIVIN				5880.00
core 1	however of n /f of 15 Amn switches 6 nin socket on modular			4.470.00	
core 1:	by way of p / f of 15 Amp switches, 6 pin socket on modular	4	Job	1470.00	5880.00
core 1: conduit fitting a	by way of p / f of 15 Amp switches, 6 pin socket on modular sper site requirements. Heating points are to be connected	4	Job	1470.00	5880.00
core 1: conduit fitting a from ma	by way of p / f of 15 Amp switches, 6 pin socket on modular sper site requirements. Heating points are to be connected ain control panel. All accessories required is to be provided	4	Job	1470.00	5880.00
core 1: conduit fitting a from ma by the fi	by way of p / f of 15 Amp switches, 6 pin socket on modular sper site requirements. Heating points are to be connected ain control panel. All accessories required is to be provided rm for stage 1 st and 2 nd	4	Job	1470.00	5880.00
core 1: conduit fitting a from ma by the fi	by way of p / f of 15 Amp switches, 6 pin socket on modular sper site requirements. Heating points are to be connected ain control panel. All accessories required is to be provided	48	Job	250.00	12000.00

providing and fitting of 3-Core, 25 Sq mm flat submersible copper cable conforming to IS: 694 (Part 1st), 1054 Part				Page 11 of 11
1964 for Pumping Unit and other electrical Equipment for stage 1st and 2 nd . The cable connections terminal shall be fitted with copper thimbles of required size.	50	Meter	1105.00	55250.00
Fabrication, providing and fitting of split type MS clamps 10 mm thick, 2 ft long and 3 inch wide for lowering and holding of pumping unit fitted for stage 1st and 2nd. The job includes the cost of required size of nuts and bolts. Size: 100mm	2	job	1801,00	3602,00
Estimated / advertised amount:	April 1990 Carlot Carlo	and the same of th		7736411.00
Percentage quoted by 11 firm	1	and the same of th		-16.20
(Rupees Sixty Four Labb 5: L. Ti				6483112.00

(Rupees Sixty Four Lakh Eighty Three Thousand One Hundred and Twelve Only)

Executive Engineer

Jal Shakti PHE Mechanical Division (North)

Sonore