

कार्यालय प्रमुख अभियंता
लोक स्वास्थ्य यांत्रिकी विभाग
तृतीय तल, ब्लॉक-बी-4 इन्द्रावती भवन, नवा रायपुर अटल नगर, रायपुर, छत्तीसगढ़

क्रमांक 47 /स्था.शा./प्र.अ./लो.स्वा.यां.वि./2023

रायपुर, दिनांक 18 /04/2023

Amendment No- 09/2023-24

यू.एस.ओ.आर समिति की बैठक दिनांक 17.04.2023 में लिये गये निर्णय एवं अनुशंसा के आधार पर विभागीय यू.एस.ओ.आर. जारी दिनांक 01.06.2020 (अद्यतन समस्त संशोधन सहित) में निम्नलिखित चेप्टरों में संशोधन/नवीन आयटम शामिल किया जाता है :-

S.No.	Item	Unit	Rate in Rs.
Chapter no. XXVIII			
RESISTIVITY SURVEY			
28.1	Carrying out the resistivity survey by VES method using Schlumberger configuration for locating the proper spot with three soundings for drilling of tube well within the selected Habitation, including photography, interpretation of resistivity data and submission of report in the desired format along with resistivity readings, necessary graph and photographs.	Per Successful point	2058
28.2	Geophysical & Hydrological Survey for lineament marking in field unconfined aquifer analysis, analyzing ground water movement, estimation of SWI yield finalizing of recharging structure, inclusive of preparation of requisite map and final report as per hydro-geological specification for recharging shaft along with all activities.	1 Job	7636
Chapter no. XXIX			
CONSTRUCTION OF ORDINARY TUBE WELL			
29.1	Drilling of perfectly vertical bore hole of a diameter to receive 125 mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing of 125 mm nominal diameter M.S /GI /UPVC casing pipe inside the bore hole including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete.		
(a)	In all type of collapsible strata consisting of soils, clays, sand, moorum, gravel, boulders etc	Meter	639
(b)	In all types of rocks.	Meter	745

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S.No.	Item	Unit	Rate in Rs.
29.2	Drilling of perfectly vertical bore hole of 115 m.m. diameter up to desired depth below ground level in all types of rocks including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc.complete.	Meter	702
29.3	Drilling of perfectly vertical bore hole of a diameter suitable to receive 150 mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing of 150 mm nominal diameter and fixing of 150 mm nominal diameter M.S./ G.I. / U.P.V.C. casing pipe inside the bore hole including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete.		
(a)	In all type of collapsible strata consisting of soils, clays, sand, moorum, gravel, boulders etc.	Meter	664
(b)	In all types of rocks.	Meter	805
29.4	Drilling of perfectly vertical bore hole of 150 mm diameter up to desired depth below ground level in all types of rock including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete.	Meter	767
29.5	Drilling of perfectly vertical bore hole of 165 m.m. diameter up to desired depth below ground level in all types of rock including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete.	Meter	772
29.6	Drilling of perfectly vertical bore hole of a diameter suitable to receive 200 mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing of 200 mm nominal diameter M.S./ G.I. / U.P.V.C. casing pipe inside the bore hole including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete.		
(a)	In all type of collapsible strata consisting of soils, clays, sand, moorum, gravel, boulders etc.	Meter	687
(b)	In all types of rocks.	Meter	906
29.7	Drilling of perfectly vertical bore hole of 200 m.m. diameter up to desired depth below ground level including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete.		
(a)	In all type of collapsible strata (intertrappean formation) including charges for transportation, lowering and fixing of 150 mm nominal diameter GI casing pipe, welded joints only .	Meter	782
(b)	In all types of rocks.	Meter	978

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S.No.	Item	Unit	Rate in Rs.
29.8	Drilling of perfectly vertical bore hole of 150 mm diameter up to desired depth below ground level under all types of strata including all works pertaining to drilling such as transportation installation and removal of drilling machine etc. complete in intertrappean formations (collapsible strata between rocks) including charges for transportation and making all necessary arrangements' etc, including lowering and fixing of 125mm or 100mm nominal diameter (G.I. or U.P.V.C. casing pipe.	Meter	788
29.9	Providing and fixing of well cap on top of the tube well for protection		
	M. S. Caps -		
(a)	100 mm dia.	each	347
(b)	125 mm dia.	each	391
(c)	150 mm dia.	each	474
(d)	200 mm dia.	each	513
20.10	Construction of concrete block over dry tube wells for protection of size 0.45m x 0.45m x0.45m in M-15 cement concrete mix complete work.	each	793

Chapter no. XXX

CONSTRUCTION OF GRAVEL PACKED TUBEWELL

30.1	Drilling of perfectly vertical bore hole of following diameters for construction of Gravel Packed tube well up to desired depth in alluvial formation consisting of Soils, Clays, Sand, Gravel, Moorum, Boulders etc. and retaining the bore hole by using suitable drilling mud or foam or temporary housing pipe including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete.		
(a)	300 m.m diameter	Meter	1071
(b)	350 m.m diameter	Meter	1125
(c)	400 m.m diameter	Meter	1174
30.2	Labour charges for assembling, centering and lowering of properly designed casing pipe assembly inside the bore hole drilled for construction of Gravel Packed tube well including the cost of providing and fixing of centraliser, and transportation of casing assembly etc. complete .		
(a)	Casing assembly composed of 100 m.m. diameter blank and slotted G.I. Casing pipes.	Meter	57
(b)	Casing assembly composed of 150 m.m. diameter blank and slotted G.I. Casing pipes.	Meter	73

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S.No.	Item	Unit	Rate in Rs.
(c)	Casing assembly composed of 200 m.m. diameter blank and slotted G.I. Casing pipes.	Meter	89
(d)	Casing assembly composed of 100 m.m. dia. UPVC blank and screened pipes.	Meter	39
(e)	Casing assembly composed of 150 m.m. dia. UPVC blank and screened pipes.	Meter	53
(f)	Casing assembly composed of 200 m.m. dia. UPVC blank and screened pipes.	Meter	68
30.3	Providing and fixing of M.S. bail plug as per I.S. 2800 (PART-I) 1991 in the bottom of casing assembly		
(a)	100 m.m diameter	each	679
(b)	150 m.m diameter	each	775
(c)	200 m.m diameter	each	885
30.4	Providing gravel packing with uniformly graded gravel as per I.S.4097 of 1967 (revised up to date) in the annular space between outer wall of casing pipe assembly and inner wall of bore hole including cost of gravel, transportation, stacking, washing and packing in layers of suitable thickness including all lead and lifts complete .	Cu.m	5395
30.5	Providing gravel with uniformly graded gravel as per I.S.4097 of 1967 (revised up to date) for gravel packing.	Cu.m	4869
30.6	Providing and fixing of well cap on top of the tube well for protection		
	M. S. Caps -		
(a)	100 mm dia.	each	347
(b)	125 mm dia.	each	391
(c)	150 mm dia.	each	474
(d)	200 mm dia.	each	513
30.7	Construction of concrete block over dry tube wells for protection of size 0.45m x 0.45m x 0.45 m in M-15 cement concrete mix complete work.	each	793
Chapter no. XXXI			
INSTALLATION OF HAND PUMP AND CONSTRUCTION OF PLATFORM DRAIN AND SOKAGE PIT			
31.1	Labour charges for installation of India Mark II Hand Pump with 30 meter long 32 mm dia. Riser pipe assembly and all other accessories including transportation of Hand Pump from specified departmental stores to site.	Each	1320
31.2	Add to item No. 1 above for fixing the extra length of riser pipe assembly beyond 30 meters.	meter	25

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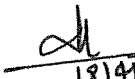
S.No.	Item	Unit	Rate in Rs.
31.3	Construction of 76 cm x 76 cm x 40 cm foundation block in 1:2:4 cement concrete for fixing the pedestal of Hand Pump including excavation, cost of material and labours etc. complete.	Each	1206
31.4	Construction of cement concrete plate form as per design around the hand pump in 1:2:4 cement concrete including excavation, centering, shuttering, cost of all the materials and labours and curing etc. complete.	Each	5279
31.5	Construction of cement concrete plate form as per design around the hand pump in 1:2:4 cement concrete including excavation, centering, shuttering, cost of all the materials and labour and curing etc. complete. Including filling in 30 cm depth after removing Black cotton soil including ramming, watering etc. complete in areas of Black cotton soils.	Each	5742
31.6	Construction of cement concrete drain as per design in 1:2:4 cement concrete including excavation, centering, shuttering, cost of all the materials and labour and curing etc. complete.	meter	413
31.7	Construction of cement concrete drain as per design in 1:2:4 cement concrete including excavation, centering, shuttering, cost of all the materials and labour and curing etc. complete. Including filling in 30 cm depth after removing Black cotton soil including ramming, watering etc. complete in areas of Black cotton soils.	meter	577
31.8	Construction of 1.20 m x 1.20 m x 0.20 m cement Concrete washing platform in cement concrete 1:2:4 including excavation, centering, shuttering, cost of all the materials and labour and curing etc. complete.	Each	1652
31.9	Construction of 1.20 m x 1.20 m x 0.20 m cement concrete washing platform in cement concrete 1:2:4 including excavation, centering, shuttering, cost of all the materials and labour and curing etc. complete. Including filling in 30 cm depth after removing Black cotton soil including ramming, watering etc. complete in areas of Black cotton soils.	Each	1865
31.10	Construction of soakage pit of 70 cm dia. and 1.0 m deep including excavation, brick lining at top in 1:4 cement mortar, filling broken bricks etc. and cost of all the materials and labour and curing etc. complete.	Each	1216


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S.No.	Item	Unit	Rate in Rs.
Chapter no. XXXII			
DEVELOPMENT, YIELD TEST AND DISINFECTION OF TUBE WELL			
32.1	Conducting the yield test of tubewell by operating the pumping set continuously for a desired time period and measuring the discharge and drawdown of tubewell at a suitable time interval as per the direction of Engineer in Charge including cost of energy, cost of installation of suitable measuring device and hire charges of pumping set etc. complete.		
(a)	Submersible pumping set up to 1 to 3 H.P.	Per hour	809
(b)	Submersible pumping set above 3 to 7.5 H.P.	Per hour	867
(c)	Submersible pumping set above 7.5 H.P.	Per hour	982
32.2	Development of gravel packed tube well by Air Compressor of suitable capacity including hire charges for all the required tools and plants etc. complete, for maximum duration of eight hours.	Per hour	1207
32.3	Measurement of yield of tube well by operating hand pump continuously for four hours manually.	Each	882
32.4	Disinfection of tube well using bleaching powder solution as per the direction of the Engineer in Charge including the cost of bleaching powder and labour etc. complete.	Each	77
Chapter no. XXXIII			
ODEX TYPE OF TUBEWELL			
33.1	Drilling of perfectly vertical bore hole by odex method of a diameter to receive 125 mm nominal diameter casing pipe up to desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing of 125 mm nominal diameter suitable for odex drilling M.S./G.I./ Seamless casing pipe inside the bore hole BY welding joint including all works pertaining to drilling such as transportation , installation and removal of drilling machine etc. complete.		
(a)	In all type of collapsible strata consisting of soils, clays, sand, moorum, gravel, boulders etc.	Meter	951
(b)	In all types of rocks.	Meter	1108
33.2	After completion of bore hole by odex method making of slots cutting on casing pipe at the aquifers level . The size of slots is 2mm wide x 7.5mm long in set of 4 slots around the length wise in casing pipe (G.I./MS/Seamless). Each meter length of casing should have 140 slots on total cylindrical portion of casing pipe .	Meter	583

Signature
18/04/2016

S.No.	Item	Unit	Rate in Rs.
33.3	Cost of casing shoe (Guide Bush) for odex drilling.	Each	6483
33.4	Drilling of perfectly vertical bore hole by odex method of a diameter to receive 150 mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing of 125 mm nominal diameter suitable for odex drilling M.S./G.I./ Seamless casing pipe inside the bore hole BY welding joint including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete.		
(a)	In all type of collapsible strata consisting of soils, clays, sand , moorum, gravel, blouders etc.	Meter	1029
(b)	In all types of rocks.	Meter	1249
33.5	After completion of bore hole by odex method making of slots cutting on casing pipe at the aquifers level . The size of slots is 2mm wide x 7.5mm long in set of 4 slots around the length wise in casing pipe (G.I./MS/Seamless). Each meter length of casing should have 172 slots on total cylindrical portion of casing pipe .	Meter	673
33.6	Cost of casing shoe (Guide Bush) for odex drilling	Each	7494


18/4/2022

NEW ITEM ADDED

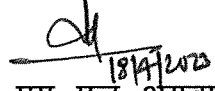
S.No.	Item	Unit	Rate in Rs.
Chapter no. XV SURGE PROTECTION WORKS (Flow cum Altitude Control valve) 80 mm to 600 mm			
15.3	Hydraulically operated self-actuated Flow & Level Control Valve (either with float or altitude pilot) with downstream orifice having Ductile Iron valve body, Y- pattern, Double chamber unitized actuator, fusion bonded Epoxy coating, Copper control tubing, with latching Solenoid & Pilot Operated as per design, additional Speed control feature, drip tight sealing, inline serviceable, Internal Stainless steel & protected diaphragm suitable for drinking water WRAS/NSF/DVGW approved. (Supply & erection)		
A	80 mm	Each	165568
B	100 mm	Each	186022
C	150 mm	Each	256482
D	200 mm	Each	336031
E	250 mm	Each	440583
F	300 mm	Each	595137
G	350 mm	Each	870213
H	400 mm	Each	1123810
I	450 mm	Each	1478206
J	500 mm	Each	2060356
K	600 mm	Each	2377059
Chapter no. XXXII DEVELOPMENT, YIELD TEST AND DISINFECTION OF TUBE WELL			
32.5	Yield test of tube well continuously for one hour with Compressor. (This Item is valid only for one hour test)	Hour	4750.00
Chapter no. XXXIV MISCELLANEOUS ITEMS OF TUBEWELL SINGLE/THREE PHASE SUBMERSIBLE/CENTRIFUGAL MOTOR PUMP SET			
34.20.114	Supplying & Installation of Energy efficient 3 star BEE rating ISI Marked required capacity single phase, 50 Hz, 220 V, deep well submersible pump Stainless Steel body, suitable for 4"/6" tube well with Control Panel Starter Suitable for Submersible pump with dry run protection, connection, including clamps, bore cap etc. as required as per specification but excluding pipe, SS/ Nylon wire rope and Connection cable.		
i	0.5 H.P. with 6 to 7 stages, head Mt. 46-13 Discharge LPM 10-55	Each	17200
ii	1 H.P. with upto 5 stages, head Mt. 35-15 Discharge LPM 40-125	Each	18620

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S.No.	Item	Unit	Rate in Rs.
iii	1 H.P. with 7 to 8 stages, head Mt. 61-18 Discharge LPM 25-90	Each	18700
iv	1 H.P. with 10 to 11 stages, head Mt. 74-21 Discharge LPM 15-55	Each	19920
v	1 H.P. with 12 to 14 stages, head Mt. 91-28 Discharge LPM 10-45	Each	21670
vi	1.5 H.P. with up to 6 stages, head Mt. 42-17 Discharge LPM 65-150	Each	22120
vii	1.5 H.P. with up to 7 to 8 stages, head Mt. 56-21 Discharge LPM 40-125	Each	25070
viii	1.5 H.P. with up to 10 to 11 stages, head Mt. 84-26 Discharge LPM 25-90	Each	25095
ix	1.5 H.P. with to 16 to 17 stages, head Mt. 114-33 Discharge LPM 15-55	Each	26120
x	1.5 H.P. with to 18 to 20 stages, head Mt. 130-41 Discharge LPM 10-45	Each	27070
xi	2 H.P. with up to 7 to 8 stages, head Mt. 56-16 Discharge LPM 65-205	Each	24345
xii	2 H.P. with to 10 to 11 stages, head Mt. 77-30 Discharge LPM 40-125	Each	24570
xiii	2 H.P. with to 14 to 15 stages, head Mt. 114-36 Discharge LPM 25-90	Each	26520
xiv	2 H.P. with to 20 to 22 stages, head Mt. 147-42 Discharge LPM 15-55	Each	27375
xv	2 H.P. with to 25 stages, head Mt. 163-58 Discharge LPM 10-45	Each	29150
xvi	3 H.P. with to 10 to 12 stages, head Mt. 84-23 Discharge LPM 65-205	Each	28225
xvii	3 H.P. with to 15 to 17 stages, head Mt. 119-45 Discharge LPM 40-125	Each	28775
xviii	3 H.P. with to 20 to 22 stages, head Mt. 167-51 Discharge LPM 25-90	Each	29175
34.20.115	Supplying & Installation of Energy efficient 3 star BEE rating ISI Marked required capacity of three Phase, 50 Hz, 415 V, deep well submersible pump Steel body, suitable for 6" tube well with Control Panel Starter Suitable for Submersible pump with dry run protection, single Phase preventer. connections, including clamps, bore cap etc. as required as per specification but excluding pipe and Connection cable.		
i	3 H.P. with up to 6 stages, head Mt. 55-7 Discharge LPM 60-510	Each	37775
ii	5 H.P. with up to 5 stages, head Mt. 55-13 Discharge LPM 120-510	Each	38700
iii	5 H.P. with 8 to 9 stages, head Mt. 83-32 Discharge LPM 60-270	Each	41775

S.No.	Item	Unit	Rate in Rs.
iv	5 H.P. with 10 to 11 stages, head Mt. 101-40 Discharge LPM 60-270	Each	41975
v	7.5 H.P. with 8 to 11 stages, head Mt. 117-31 Discharge LPM 60-420	Each	44250
vi	7.5 H.P. with 13 to 14 stages, head Mt. 129-52 Discharge LPM 60-270	Each	52300
vii	7.5 H.P. with 15 stages, head Mt. 138-60 Discharge LPM 60-270	Each	54500
viii	10 H.P. with 16 stages, head Mt. 147-64 Discharge LPM 60-270	Each	60525
ix	10 H.P. with 20 stages, head Mt. 184-80 Discharge LPM 60-270	Each	63915

यह आदेश तत्काल प्रभावशील होगा।

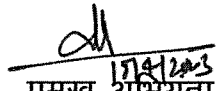

 (डॉ. एम. एल. अग्रवाल)
 प्रमुख अभियंता,
 लोक स्वास्थ्य यांत्रिकी विभाग
 छत्तीसगढ़, नवा रायपुर

पृ.क्र. 1751 / त.शा. / प्र.अ. / लो.स्वा.यां.वि. / 2023

रायपुर, दिनांक 18 / 04 / 2023

प्रतिलिपि:-

1. सचिव, छत्तीसगढ़ शासन, लोक स्वास्थ्य यांत्रिकी विभाग, महानदी भवन, नवा रायपुर, अटल नगर की ओर सूचनार्थ प्रेषित।
2. मिशन संचालक, जल जीवन मिशन, नीर भवन, रायपुर की ओर सूचनार्थ प्रेषित।
3. प्रमुख अभियंता, जल संसाधन विभाग / लोक निर्माण विभाग, छत्तीसगढ़ की ओर सूचनार्थ।
4. महालेखाकार, छत्तीसगढ़, रायपुर की ओर सूचनार्थ।
5. मुख्य तकनीकी परीक्षक, छत्तीसगढ़, इन्द्रावती भवन, नवा रायपुर अटल नगर की ओर सूचनार्थ।
6. मुख्य अभियंता, लोक स्वास्थ्य यांत्रिकी विभाग परिक्षेत्र-रायपुर, बिलासपुर, जगदलपुर की ओर सूचनार्थ एवं पालनार्थ प्रेषित।
7. अधीक्षण अभियंता, लोक स्वास्थ्य यांत्रिकी विभाग, मंडल-रायपुर, बिलासपुर, दुर्ग, जगदलपुर, कोन्डागांव, अंबिकापुर एवं (वि.यां.) मण्डल रायपुर की ओर सूचनार्थ एवं पालनार्थ प्रेषित।
8. कार्यपालन अभियंता, लोक स्वास्थ्य यांत्रिकी खण्ड / परियोजना खण्ड / (वि.यां.) खण्ड-..... की ओर सूचनार्थ एवं पालनार्थ प्रेषित।


 प्रमुख अभियंता,
 लोक स्वास्थ्य यांत्रिकी विभाग
 छत्तीसगढ़, नवा रायपुर