

# GOVT. OF ASSAM OFFICE OF THE CHIEF ENGINEER IRRIGATION DEPARTMENT :: ASSAM :: CHANDMARI GUWAHATI-3 (MECHANICAL BRANCH)

**SCHEDULE OF RATES FOR THE YEAR 2023-24** 

**MECHANICAL COMPONENT OF WORKS** 

## 1 TUBE WELL SCHEMES

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Central Monitoring Cell Irrigates Chandmari, Ghy, -03

#### 1. SCHEDULE OF RATES for works of

Mechanical Component under Irrigation Department, Govt. of Assam for the year 2023-24. Detail specification for TUBE WELL SCHEME (T.W.S.)

SI. No.	Specification of Works	Unit	Rate per Unit (Rs.)
1.1.1	Movement of Drilling Rig, Tools & Plants, Accessories including Drill Pipes, Casing Pipes, etc. to drilling site and back.	KM	Rs. 1,081.96 [Rupees One Thousand Eighty One and Paise Ninety Six] only
1.2.1	Boring and repeated boring with required size of drill bits of DTW of bore hole up to 300 mm dia and up to a depth of 50 M or up to required depth by RC/DR Drilling Rig including supply and transportation of all required Tools & Plants, materials & Labour to site to perform the job in complete as directed in alluvium areas (means areas where the strata comprises of loose, unconsolidated materials like clays, silts, sands gravels, pebbles, cobbles and boulders) as per IS: 2800 (part-I) of 1991. (Soil sample must be collected & keep properly at every 3.00 M interval of depth in boring. The job also includes movement of Rig by making temporary approach road etc. to the field up to distance of 1000 M.)	RM	Rs. 5,609.73 [Rupees Five Thousand Six Hundred Nine and Paise Seventy Three] only
1.2.2	Boring and repeated boring with required size of drill bits of DTW of bore hole up to 450 mm dia and up to a depth of 70 M or up to required depth by RC/DR Drilling Rig including supply and transportation of all required Tools & Plants, materials & Labour to site to perform the job in complete as directed in alluvium areas (means areas where the strata comprises of loose, unconsolidated materials like clays, silts, sands gravels, pebbles, cobbles and boulders) as per IS: 2800 (part-I) of 1991. (Soil sample must be collected & keep properly at every 3.00 M interval of depth in boring. The job also includes movement of Rig by making temporary approach road etc. to the field up to distance of 1000 M.)	RM	Rs. 5,609.73 [Rupees Five Thousand Six Hundred Nine and Paise Seventy Three] only
1.2.3	Boring and repeated boring with required size of drill bits of DTW of bore hole up to 600 mm dia up to a depth of 110 M or up to required depth by RC/DR Drilling Rig including supply and transportation of all required Tools & Plants, materials & Labour to site to perform the job in complete as directed in alluvium areas (means areas where the strata comprises of loose, unconsolidated materials like clays, silts, sands gravels, pebbles, cobbles and boulders) as per IS: 2800 (part-I) of 1991. (Soil sample must be collected & keep properly at every 3.00 M interval of depth in boring. The job also include movement of Rig by making temporary approach road etc. to the field up to distance of 1000 M.)	RM	Rs. 6,274.52 [Rupees Six Thousand Two Hundred Seventy Four and Paise Fifty Two] only

O/o The Addl Chief Engineer (Mech) Irrigation Changing Guwahati-3

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1.3.1	Supply, Lowering & Installation in tube-well 300 mm PVC housing pipe for casing assembly of wall thickness of 11.2 mm to 14.5 mm including supply of well cap, sockets; MS housing clamps etc. as required as per IS: 12818-1997 of length 3.00 M of repute brand like Oriplast/ Jindal/ Prince, etc. and as directed.  (Litholog Assembly diagram must be approved by Engineer-in-Charge of the work prior to installation)	RM	Rs. 9,183.86 [Rupees Nine Thousand One Hundred Eighty Three and Paise Eighty Six] only
1.3.2	Supply, Lowering & Installation in tube-well 200 mm PVC housing pipe/ Blind pipe of wall thickness of 10 mm to 11.2 mm for casing assembly including supply of well cap, Bail Plug, sockets, reducer, MS housing clamps etc. as required as per IS: 12818-1997 of length 3.00 M of repute brand like Oriplast/ Jindal/ Prince, etc. and as directed. (Litholog Assembly diagram must be approved by Engineer-in-Charge of the work prior to installation)	RM	Rs. 5,019.23 [Rupees Five Thousand Nineteen and Paise Twenty Three] Only
1.3.3	Supply, Lowering & Installation in tube-well 200 mm PVC Ribbed Screen Filter pipe of wall thickness of 10 mm to 11.2 mm for casing assembly including supply of sockets, reducer, etc. as required as per IS: 12818-1997 of length 3.00 M/ 2.00 M of repute brand like Oriplast/ Jindal/ Prince, etc. and as directed.  (Litholog Assembly diagram must be approved by Engineer-in-Charge of the work prior to installation)	RM	Rs. 7,032.68 [Rupees Seven Thousand Thirty Two and Paise Sixty Eight] Only
1.3.4	Supply, Lowering & Installation in tube-well 150 mm PVC housing pipe/ Blind pipe of wall thickness of 6.5 mm to 8.5 mm for casing assembly including supply of well cap, sockets , reducer, MS housing clamps etc. as required as per IS: 12818-1997 of length 3.00 M of repute brand like Oriplast/ Jindal/ Prince, etc. and as directed.  (Litholog Assembly diagram must be approved by Engineer-in-Charge of the work prior to installation)	RM	Rs. 2,996.73 [Rupees Two Thousand Nine Hundred Ninety Six and Paise Seventy Three] Only
1.3.5	Supply, Lowering & Installation in tube-well 150 mm PVC Ribbed Screen Filter pipe of wall thickness of 6.5 mm to 8.5 mm for casing assembly including supply of sockets , reducer, etc. as required as per IS: 12818-1997 of length 3.00 M/ 2.00 M of repute brand like Oriplast/ Jindal/ Prince, etc. and as directed.  (Litholog Assembly diagram must be approved by Engineer-in-Charge of the work prior to installation)	RM	Rs. 4,027.26 [Rupees Four Thousand Twenty Seven and Paise Twenty Six] Only

Procutive Engineer (Mech )	1.3.6	Supply, Lowering & Installation in tube-well 100 mm PVC Ribbed Screen Filter pipe of wall thickness of 5 mm to 6.5 mm for casing assembly including supply of well cap, sockets , reducer, MS housing clamps etc. as required as per IS: 12818-1997 of length 3.00 M/ 2.00 M of repute brand like Oriplast/ Jindal/ Prince, etc. and as directed. (Litholog Assembly diagram must be approved by Engineer-in-Charge of the work prior to installation)	RM	Rs. 2,095.33 [Rupees Two Thousand Ninety Five and Paise Thirty Three] Only
and made	1.4-1	Supply, Lowering & Installation in tube-well 300 mm ERW housing pipe for casing assembly of wall thickness of 7.1 mm to 8.0 mm conforming to IS: 1239 (Pt- 1) - 2004 for dia. up to 150 mm and IS: 4270 -2001 for dia. above 150 mm of repute brand like TATA/ Jindal/ NLT, etc including supply of well cap, reducer, MS housing clamps etc. as required and as directed (Litholog Assembly diagram must be approved by Engineer-in-Charge of the work prior to installation)	RM	Rs. 8,722.54 [Rupees Eight Thousand Seven Hundred Twenty Two and Paise Fifty Four] Only
two shall Table Engineer (N	1.4.2	Supply, Lowering & Installation in tube-well 200 mm ERW blind pipe for casing assembly of wall thickness of 7.1 mm to 8.0 mm conforming to IS: 1239 (Pt- 1) - 2004 for dia. up to 150 mm and IS: 4270 -2001 for dia. above 150 mm of repute brand like TATA/ Jindal/ NLT, etc including supply of socket, reducer, Bail Plug, etc. as required and as directed (Litholog Assembly diagram must be approved by Engineer-in-Charge of the work prior to installation)	RM	Rs. 6,473.86 [Rupees Six Thousand Four Hundred Seventy Three and Paise Eighty Six] Only
Executive Engineer (TC)  Weich   Central Monitoring Cell Irrigation  Chandman, Ghy03	1.4.3	Supply, Lowering & Installation in tube-well 200 mm ERW Strainer/ Filter pipe for casing assembly of wall thickness of 7.1 mm to 8.0 mm conforming to IS: 1239 (Pt- 1) - 2004 for dia. up to 150 mm and IS: 4270 -2001 for dia. above 150 mm of repute brand like TATA/ Jindal/ NLT, etc including supply of socket, reducer, etc. as required and as directed (Litholog Assembly diagram must be approved by Engineer-in-Charge of the work prior to installation)	RM	Rs. 7,598.20 [Rupees Seven Thousand Five Hundred Ninety Eight and Paise Twenty] Only
(TC) rrigation 13	1.5.1	mm to 8 mm, free from sand/ dust and any other foreign materials after screening/ stacking at site including supply, transportation, labour, etc. in complete as directed (Work to be carried out as per IS: 4097 : 2008)	M <sup>3</sup>	Rs. 7,222.23 [Rupees Seven Thousand Two Hundred Twenty Two and Paise Twenty Three] Only

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Leady Tor (TC) maring Cell irrigation m.Ghy03	1.6.1	Developing the tube well assembly by Air-Compressor of capacity 8 – 12 kg/cm² and CFM = 450 M³/Min so as to get sand free discharge of water with supply of all required materials at site complete as directed including furnishing of litho log / draw down data, etc. as per IS:11185 of 1999. (For new DTW minimum 72 hours development is compulsory. Additional pea gravel required if any, during development would be extra as per [4.1] The following data should be reflected in the report of development: 1. Static water level  2. Drawdown at various discharge 3. Available average discharge)	Hr	Rs. 3,684.52 [Rupees Three Thousand Six Hundred Eighty Four and Paise Fifty Two] Only
fee and Shel Engineer (Mech.)	1.7.1	Withdrawal of Submersible Pump set/ Vertical Turbine Pump set from bore well for repairing or maintenance in complete including supply of all materials required for the work including carriage of the pump set to workshop or Sub-Divn. HQ as directed.	Job	Rs. 31,346.16 [Rupees Thirty One Thousand Three Hundred Forty Six and Paise Sixteen] Only
Engineer (Mech IIC Assat Engineer (Mech ) (se Chandinari film 3 line	1.7.2	Installation, Testing & Commissioning of Electric/ Solar motor driven submersible pump set/ Vertical Turbine Pump set of various capacities into a bore well including supply of all materials required for the work including carriage of the pump set from store or Sub-Divn. HQ as directed	Job	Rs. 36,210.68 [Rupees Thirty Six Thousand Two Hundred Ten and Paise Sixty Eight] Only
Resolutive Engineer (Mech 177 for anal Thiel Engineer (Mech 177 for anal T	1.8.1	Supply, Installation, Testing & Commissioning including transportation at site of electric motor driven submersible pump-set (20 HP/ 2900 RPM) and assembly of KSB/ KK/ CALAMA/ LUBI make as approved by Deptt. suitable for discharge capacity of 0.0566 cumec at 20 Mtr head conforming to IS: 8034–2002 including supply of all materials required for the work like column pipe of required diameter up to 20.00 Mtr length (as per IS: 1239 Part-II) The column pipes of 20 Mtr (approx) length should consist 6 nos of 3.0 Mtr length & 1 no. of 2.0 Mtr length. Each column pipe should have both end threaded & one end socketed. Flat motor cable up to 50.00 Mtr, 2(two) pairs of Assembly support MS clamp of size 150 mm, 10 nos flat cable clamp, 1(one) no GI delivery bend of size 150 mm x 90°, MS well cap of size 316 mm x 100 mm with provision to allow column pipe at centre, Starter stand made of MS angle ISA 5050, etc. in complete as directed. Apart from socketing, the column pipes should be joined by making MS angle joint for 150 mm dia column pipes with 3(three) pairs of clamp made of MS angle of size ISA 5050 to be welded on column pipe including supply of 3(three) nos of nuts& bolts (HT) of size 16 mm dia x 250 mm L at site as directed  The efficiency of the pump should not be below 75% of the rated duty point.	Job	Rs. 2,64,210.68 [Rupees Two Lakh Sixty Four Thousand Two Hundred Ten and Paise Sixty Eight]) Only

1.8.2 Supply, Installation, Testing & Commissioning including transportation at site of electric motor driven submersible pump-set (15 HP/ 2900 RPM) and assembly of KSB/ KK/ CALAMA/ LUBI make as approved by Deptt. suitable for discharge capacity of 0.0425 cumec at 20 Mtr head conforming to IS: 8034-2002 including supply of all materials required for the work like column pipe of required diameter up to 20.00 Mtr length (as per IS: 1239 Part-II) The column pipes of 20 Mtr (approx) length should consist 6 nos of 3.0 Mtr length & 1 no. of 2.0 Mtr length. Each column pipe Rs. 2,29,710.68 should have both end threaded & one end socketed . Flat [Rupees Two Lakh motor cable up to 50.00 Mtr, 2(two) pairs of Assembly Twenty Nine Thousand support MS clamp of size 150 mm, 10 nos flat cable clamp, Job Seven Hundred Ten and 1(one) no GI delivery bend of size 150 mm  $\times$  90 $^{\circ}$  , MS well Paise Sixty Eight] Only cap of size 316 mm x 100 mm with provision to allow column pipe at centre, Starter stand made of MS angle ISA 5050, etc. in complete as directed . Apart from socketing, the column pipes should be joined by making MS angle joint for 150 mm dia column pipes with 3(three) pairs of clamp made of MS angle of size ISA 5050 to be welded on column pipe including supply of 3(three) nos of nuts& bolts (HT) of size 16 mm dia x 250 mm L at site as directed The efficiency of the pump should not be below 75% of the rated duty point. Supply, Installation, Testing & Commissioning including 1.8.3 transportation at site of electric motor driven submersible pump-set (10 HP/ 2900 RPM) and assembly of KSB/ KK/ CALAMA/ LUBI make as approved by Deptt. suitable for discharge capacity of 0.0283 cumec at 20 Mtr head conforming to IS: 8034-2002 including supply of all materials required for the work like column pipe of required diameter up to 20.00 Mtr length (as per IS: 1239 Part-II) The column pipes of 20 Mtr (approx) length should consist 6 nos of 3.0 Mtr length & 1 no. of 2.0 Mtr length. Each column pipe Rs. 1,95,699.68 should have both end threaded & one end socketed . Flat [Rupees One Lakh motor cable up to 50.00 Mtr, 2(two) pairs of Assembly Ninety Five Thousand support MS clamp of size 150 mm, 10 nos flat cable clamp, Job Six Hundred Ninety Nine 1(one) no GI delivery bend of size 150 mm x 90°, MS well and Paise Sixty Eight] cap of size 316 mm x 100 mm with provision to allow column Only pipe at centre, Starter stand made of MS angle ISA 5050, etc. in complete as directed . Apart from socketing, the column pipes should be joined by making MS angle joint for 150 mm dia column pipes with 3(three) pairs of clamp made of MS angle of size ISA 5050 to be welded on column pipe including supply of 3(three) nos of nuts& bolts (HT) of size 16 mm.dia x 250 mm L at site as directed

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Supply, Installation, Testing & Commissioning including 1.8.4 transportation at site of electric motor driven submersible pump-set (7.5 HP/ 2900 RPM) and assembly of KSB/ KK/ CALAMA/ LUBI make as approved by Deptt. suitable for discharge capacity of 0.0212 cumec at 20 Mtr head Ore Engineer conforming to IS: 8034-2002 including supply of all materials required for the work like column pipe of required diameter up to 20.00 Mtr length(as per IS: 1239 Part-II) The column pipes of 20 Mtr (approx) length should consist 6 nos of 3.0 Mtr length & 1 no. of 2.0 Mtr length. Each column pipe Rs. 1,69,710.68 should have both end threaded & one end socketed . Flat [Rupees One Lakh Sixty motor cable up to 50.00 Mtr, 2(two) pairs of Assembly Nine Thousand Seven Job support MS clamp of size 150 mm, 10 nos flat cable clamp, Hundred Ten and Paise 1(one) no GI delivery bend of size 150 mm x  $90^{\circ}$  , MS well Fencutive Engineer (Mech ITS Sixty Eight] Only cap of size 316 mm x 100 mm with provision to allow column pipe at centre, Starter stand made of MS angle ISA 5050, etc. "hiel Engineer (Mer h.) in complete as directed . Apart from socketing, the column pipes should be joined by making MS angle joint for 150 mm dia column pipes with 3(three) pairs of clamp made of MS angle of size ISA 5050 to be welded on column pipe including supply of 3(three) nos of nuts& bolts (HT) of size 16 mm dia x 250 mm L at site as directed. The efficiency of the pump should not be below 75% of the rated duty point. hr-same Japit Chandinan Gay J INVERTAL SAL Supply, Installation, Testing & Commissioning including 1.8.5 transportation at site of electric motor driven submersible Intel Engineer (Mech ) pump-set (3 HP/ 2900 RPM) and assembly of KSB/ KK/ CALAMA/ LUBI make as approved by Deptt. suitable for discharge capacity of 0.0067 cumec at 20 Mtr head conforming to IS: 8034-2002 including supply of all materials required for the work like column pipe of required diameter up to 20.00 Mtr length(as per IS: 1239 Part-II) The column pipes of 20 Mtr (approx) length should consist 6 nos of 3.0 Mtr length & 1 no. of 2.0 Mtr length. Each column pipe should have both end threaded & one end socketed. Flat Central Monitoring Cell Irrigation Rs. 1,42,710.68 motor cable up to 50.00 Mtr, 2(two) pairs of Assembly [Rupees One Lakh Forty support MS clamp of size 150 mm, 10 nos flat cable clamp, Two Thousand Seven Job 1(one) no GI delivery bend of size 150 mm x 90°, MS well **Hundred Ten and Paise** cap of size 316 mm x 100 mm with provision to allow column Sixty Eight] Only pipe at centre, Starter stand made of MS angle ISA 5050, etc. in complete as directed . Apart from socketing, the column pipes should be joined by making MS angle joint for 150 mm dia column pipes with 3(three) pairs of clamp made of MS angle of size ISA 5050 to be welded on column pipe including supply of 3(three) nos of nuts& bolts (HT) of size 16 mm dia x 250 mm L at site as directed The efficiency of the pump should not be below 75% of the rated duty point.

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	upply, fitting-fixing of delivery pipes of 150 mm dia GI/abricated GI pipes (HD of repute brand with ISI marked) with lange at both end/ wherever required with pipe jointing ets, including painting in complete as per drawing / pecification including temporary pipe support as required and as directed.	RM	Rs. 5,735.64 [Rupees Five Thousand Seven Hundred Thirty Five and Paise Sixty Four] only
٧	Supply, Fitting-fixing of Heavy duty CIDF sluice valve inside screw, non raising, vertical spindle type with hand wheel operation, need for water purpose. The rotation of closing should be counter clock wise. The holes of the flange should be drilled as per BSS No. 10, part-I, Table-D. All materials construction and components should strictly conform to IS: 14846 – 2000 and having marked with manufacturers name and trade mark in the delivery pipe layout as directed/ as per drawing along with HD GI flange, pipe jointing materials and painting in complete as directed		
	(i) 100 mm Dia	Job	Rs. 11,325.82 [Rupees Eleven Thousand Three Hundred Twenty Five and Paise Eighty Two] only
ì	(ii) 125 mm Dia	Job	Rs. 13,786.82 [Rupees Thirteen Thousand Seven Hundred Eighty Six and Paise Eighty Two] only
	(iii) 150 mm dia	Job	Rs. 15,921.82 [Rupees Fifteen Thousand Nine Hundred Twenty One and Paise Eighty Two] only
1.9.3	Supply, Fitting-fixing of Heavy duty CIDF Reflex valve, swing check type, with bypass arrangement, horizontal operating. The holes of the flange to be as per BSS No. 10, Part-I, Table-D and the material, construction and all components should strictly conform to IS: 5312 (Part-I) – 2004 and having marked with manufacturers name and trade mark in the delivery pipe layout as directed/ as per drawing along with HD GI flange, pipe jointing set and painting in complete as directed		
\ \	(i) 100 mm dia	Job	Rs. 11,821.82 [Rupees Eleven Thousand Eight Hundred Twenty one and Paise Eighty Two]

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	(ii) 125 mm dia	Job	Rs. 13,821.82 [Rupees Thirteen Thousand Eight Hundred Twenty one and Paise Eighty Two] only
	(iii) 150 mm dia	Job	Rs. 16,621.82 [Rupees Sixteen Thousand Six Hundred Twenty one and Paise Eighty Two] only
1.9.4	Supply, fitting-fixing of Surge Tank of size 900 mm dia x 1250 mm long made of 4 mm MS plate with Raiser assembly of size 75 mm dia x 6.0 M long and S-bend of size 200 mm x 1600 mmL made of 4 mm MS plate including painting the above with one coat of synthetic enamel primer followed by 2 (two) coats of successive synthetic enamel/ bituminous black paint and made provision for mounting the surge tank on a specified CC foundation by nuts & bolts of suitable size as per drawing & specification as directed.	Job	Rs. 1,41,855.31 [Rupees One Lakh Forty One Thousand Eight Hundred Fifty Five and Paise Thirty One] only
1.9.5	Fitting-fixing of MS/ GI bend of 150 mm dia x 45° /90° /120° with GI/ fabricated GI pipes with flange at both end and pipe jointing sets, including painting as per drawing & specification as directed.	Job	Rs. 3,621.82 [Rupees Three Thousand Six Hundred Twenty One and Paise Eighty Two] Only
1.9.6	Fitting-fixing of MS/ GI Tee of 150 mm with GI/ fabricated GI pipes with flange at three end and pipe jointing sets, including painting as per drawing & specification as directed	Job	Rs. 3,621.82 [Rupees Three Thousand Six Hundred Twenty One and Paise Eighty Two] Only

N.B :- Rates are inclusive of GST & all other taxes/ charges but exclusive of Forest Royalty

(Er. Pulak Sarmah) Addl. Chief Engineer (Mech)

O/o Chief Engineer, Irrigation, Assam

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## LIFT IRRIGATION SCHEMES

## 2. SCHEDULE OF RATES for works of

Mechanical Component under Irrigation Department, Govt. of Assam for the year 2023-24

Detail specification for LIFT IRRIGATION SCHEME (L.I.S)

l No.	Description of works/item	Unit	Rate per unit
2.1	Installation of 20 H.P Centrifugal Pump set (Horizontal Split casing type, size: 150 mm(suction) x 125 mm dia. (delivery) of 60 LPS minimum discharge at 13.00 Mt head coupled with 3 ph, 415 V, 50 Hz, 1450 RPM squirrel cage induction motor of complete Pumpset. The job includes necessary transportation of pump set to the site and its installation on C.C. block foundation of Pump House in proper position with accurate alignment by means of foundation nuts and bolts including testing & commissioning at site at full load condition with all works complete as directed.	Job	Rs. 26,274.79  [Rupees Twenty Six Thousand Two Hundred Seventy Four and Paise Seventy Nine Only]
2.2	Fitting, fixing and laying of G.I. Pipes with Accessories: Laying, fitting, fixing and connection of suction pipe line for each pump set with 150mm dia. G.I. pipes of different length, fabricated G.I. pipes with different length, fabricated bends, tapper including foot valve for suction side. Reflex valve, sluice valve for delivery side of each pump set with 125mm dia. G.I. pipes with different length, bends, fabricated G.I. pipes with different length as per drawing. The joints should be with the best quality pipe joining sets of required size comprises of 60mm thick black moulded rubber gasket, necessary nuts, bolts and washer. Every joint should be leak proof and should be completed in all respect from foot valve to the pump flange for suction side and fr4om delivery flange is the water flow through at proper F.S.L for the delivery side. The pipes lines with accessories must be proper painting.	RM	Rs. 967.15  [Rupees Nine Hundred Sixty Seven and Paise Fifteen Only]
2.3	Providing, fitting, fixing and erection of pipe supports for each pipeline at on interval of 3.00 Mtr. (approx) made of M.S. channel (ISMC 75) 1.50 Mtr. height with angle bracing erected on CC block of size 0.45mX0.30mX0.60m below ground.	job	Rs. 4,448.31  [Rupees Four Thousar Four Hundred Forty Eight and Paise Thirt One Only]
.4.A	Installation of Electric driven Vacuum pump set water type mounted on common base frame and coupled with flexible coupling capable of handling minimum 2.20 Lt of air/sec and to reduce minimum vacuum of 600 mm of Hg pressure with 5 to3 HP, 440V, 3ph, 50Hz induction motor set with starter (Amp range-7.5A) mounted on common base frame on suited C.C. base foundation bolts of required size. Also installation and connection of wall mounting type sub panel board ( readymade sheet enclosure with make) suitable for the motor of vacuum with necessary frame and clamps and fitted with the	job	Rs. 11,873.52  [Rupees Eleven Thousand Eight Hundred Seventy Three and Paise Fifty Two Only]

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·	components,  1) MCB (3 ph,415 V,50 Hz,25 KVA, 16 Amp)  2) Voltmeter (0-500 V)  3) Ammeter (0-25 Amp)  4) Electro switch for Voltmeter  5) Induction lamp (R-Y-B)  The job should be included connection of the components with the motor through the starter with best quality PVC insulation sheeted copper conduction cable of appropriate gauge.		
2.4.B	Supply and installation of overhead tank along with stand: Fabrication and supply of M.S. tank of size 0.6Mtx0.6Mtx0.6Mt along with M.S. stand of 1.70Mt height comprising of 4 nos. columns fabricated from M.S. angle ISA 5050 with 3 nos. lateral bracing and frame fabricated from ISA 4040 followed by erection of the same with necessary C.C. base foundation with necessary support and clamping including.		Rs. 17,020.31  [Rupees Seventeen Thousand Twenty and Paise Thirty One Only]
2.4.C	Cost of C.C. Foundation Block for Overhead Tank: The job consists of Earthwork, soiling in foundation, ramming, CC work in proper proportion, work of ordinary timber planking, cement plastering etc.	Job	Rs. 2,377.47  [Rupees Two Thousan Three Hundred Sevent Seven and Paise Fort Seven Only]
2.5	Starter Stand: Supply & Installation of MS Starter Stand made of MS Angle of size 50mmx50mmx5mm including of providence C.C Block Foundation for installation of starter stand along with the required cement concrete works etc. The work includes painting of the starter stand with 1(one) coat of red oxide metal primer to be followed by 2(Two) coats of anticorrosive smoke grey paint to be applied after air drying of each previous coat.	Job	Rs. 8,530.37  [Rupees Eight Thousand Five Hundred Thirty and Paise Thirty Seven Only]
2.6	Installation of Earth Station including supply of Earth continuity conductor materials, erection, connection of Earth Station with G.I pipe of 40mm dia. x 2Mt long with reducing sockets, nuts & bolts etc as per I.E Rule, connecting the motor etc by 8 SWG G.I wire through perforated G.I pipe with 12mm dia. holes all over the body of G.I pipe of standard spacing pointed at bottom end. For earth continuity conductor required of salt, charcoal to be used in the earth station.	Job	Rs. 7,278.41  [Rupees Seven Thousand Two Hundred Seventy Eight and Paise For One Only]
2.7	Installation, fitting, fixing of 1.0 HP mono block pump set (excluding cost of pump set), pipes and accessories for priming system at each point of a ELIS. The job consists of supply and fitting of items like Flexible PVC pipe, GI pipe, GI Tee, GI Elbow, GI Nipple, GI Socket Bronze valve, Foot valve, PVC insulated copper conductor etc and labour charges.	Job	Rs. 29,410.23  [Rupees Twenty Ni Thousand Four Hundred Ten and Paise Twenty Thre Only]

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	replacem pressure necessary to the suc	ng, cleaning and repairing of flanged type CI foot valve with ent of best quality foot valve leather, foot valve guide plate, plate, black moulded rubber gasket, nuts & bolts etc. as a including machining and then subsequent refitting the foot ction pipe flanged under water. So includes all charges like handling, transportation etc. for :		
*	i)	200 mm dia.	Job	Rs. 1,762.70  [Rupees One Thousand Seven Hundred Sixty Two and Paise Seventy Only]
	ii)	150 mm dia.	Job	Rs. 1,545.58  [Rupees One Thousand Five Hundred Forty Five and Paise Fifty Eight Only]
. ,	iii)	125 mm dia.	Job	Rs. 1,396.31  [Rupees One Thousand Three Hundred Ninety Six and Paise Thirty One Only]
	iv)	75 mm dia.	Job	Rs. 1,244.32  [Rupees One Thousand Two Hundred Forty Four and Paise Thirty Two Only]
	v)	65 mm dia.	Job	Rs. 1,176.13  [Rupees One Thousand One Hundred Seventy Six and Paise Thirteen Only]

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Executive Engineer (Tk)	2.9	Supply and compressing of graphite greased gland packing of reputed quality as required quantity around the rotating shaft of the pump set against the gland pressure plate to form a water tight seal and adjusting with the help of gland nut in order to accommodate continuous operation.	Job	Rs. 1,237.89  [Rupees One Thousand Two Hundred Thirty Seven and Paise Eighty Nine Only]
hear Femi	2.10	Fitting, fixing and connection of the motor starter along with supply of one best quality Single phasing Preventer (negative sequence current sensing, phase failure relay with overload protection for 3 Ph, 50 Hz, 440 V).	Job	Rs. 6,563.14  [Rupees Six Thousand Five Hundred Sixty Three and Paise Fourteen Only]
ngineer (Mech.) [6], Engineer (Mech.)	2.11	Repair of old pump set with replacement of pump shaft (Leaded bronze or hardened nickel plated carbon steel) for horizontal split casing pump of 20 HP including supply assembling of all allied mechanical pump component like sleeve, key, sleeve nut, gland pressure plate & nut, pump bearing and other miscellaneous items as per requirement and to the best satisfaction.	Job	Rs. 24,186.71  [Rupees Twenty Four Thousand One Hundred Eighty Six and Paise Seventy One Only]
(we shall Thiel Engineer (Mech.) (we shall Thiel Engineer (Mech.) (we shall Thiel Engineer (Mech.) (see shall Thiel Engineer (Mech.)	2.12	Dismantling the old winding and then complete rewinding of squirrel cage induction motor of 20 HP with new super enameled copper wire of original gauge and type including tapping, varnishing with best quality insulating varnish, heating with reinstallation, testing & commissioning of the same at different load conditions.  The job includes supply & fitting of all materials as necessary for field windings, motor bearing as per original type & size, cooling fan, terminal plate etc. complete including handling, carriage.	Job	Rs. 54,138.87  [Rupees Fifty Four Thousand One Hundred Thirty Eight and Paise Eighty Seven Only]
	2.13	Dismantling and overhauling of 3 phase, 440V, 50Hz, FASD Starter for 20 HP induction motor with necessary replacement of air break contactor/timer, overload relay with internal wiring through copper conductor and buss bar/chromium bolt with supply and fitting of trip push button assembly as required.  The job includes handling, carriage, fitting & connection of the starter to the panel, testing & commissioning with load.	Job	Rs. 25,050.22  [Rupees Twenty Five Thousand Fifty and Paise Twenty Two Only]
Engineer (Kech 17)	2.14	Dismantling and repairing of CIDF heavy duty vertical spindle type sluice valve of 150 mm dia. along with fitting the same on existing GI pipes line with necessary cutting & threading as required. The job includes replacement of brass spindle with dog nut, hand wheel, fitting of moulded rubber gasket 6mm thickness, nuts & bolts etc.	lah	Rs. 6,041.81  [Rupees Six Thousand Forty One and Paise Eighty One Only]

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2.15	Laying and connection of cables such as Feeder cable, priming motor cable, lighting cable etc.		
a si	i) 35 sq mm x 3 ½core	Job	Rs. 1,400.42  [Rupees One Thousand Four Hundred and Paise Forty Two Only]
			Rs. 1,136.62
	ii) 25 sq mm x 3 ½ core	Job	[Rupees One Thousand One Hundred Thirty Six and Paise Sixty Two Only]
			Rs. 778.38
	iii) 16 sq mm x 3 core	Job	[Rupees Seven Hundred Seventy Eight and Paise Thir Eight Only]
- >			Rs. 599.25
•	iv) 6 sq mm x 2 core	Job	[Rupees Five Hundred Ninety Nine and Paise Twenty Five Only
2.16	Installation of 20 H.P Centrifugal Pump set on (Horizontal Split casing type, size: 150 mm(suction) x 125 mm dia. (delivery) of 60 LPS minimum discharge at 13.00 Mt head coupled with 3 ph, 415 V, 50 Hz, 1450 RPM squirrel cage induction motor of complete Pumpset.		Rs. 23,088.81
	The job includes necessary transportation of pump set to the site and its installation on Barge/ Pontoon in proper position with accurate alignment by means of foundation nuts and bolts, etc. including testing & commissioning at site at full load condition complete with all works.	Job	[Rupees Twenty Three Thousand Eighty Eight and Pa Eighty One Only

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Installation of 20 H.P Submersed Centrifugal Pump set horizontally bottom rested in water body or horizontally suspended in water body from floating barge or pontoon platform including fitting, fixing of all necessary accessories and transportation of all materials from Sub-Divisional Head Quarter to the Site. [Size: 150 mm(suction) x 150 mm dia. (delivery) of 60 LPS-minimum discharge at 10.00 Mt head coupled with 3 ph, 415 V, 50 Hz,-1000 RPM-Submersed/ ARS motor of complete Pumpset. The job includes necessary electrical connection to starter, motor, etc. and installation of Pump set, etc. in proper position with accurate alignment including testing & commissioning at site at full load condition with all works complete as directed.

Rs. 37,928.72

[Rupees Thirty Seven Thousand Nine Hundred Twenty Eight and Paise Seventy Two Only]

Job

N.B :- Rates are inclusive of GST & all other taxes/ charges but exclusive of Forest Royalty

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(Er. Pulak Sarmah) Addl. Chief Engineer (Mech) O/o Chief Engineer, Irrigation, Assam Chandmari, Guwahati-3

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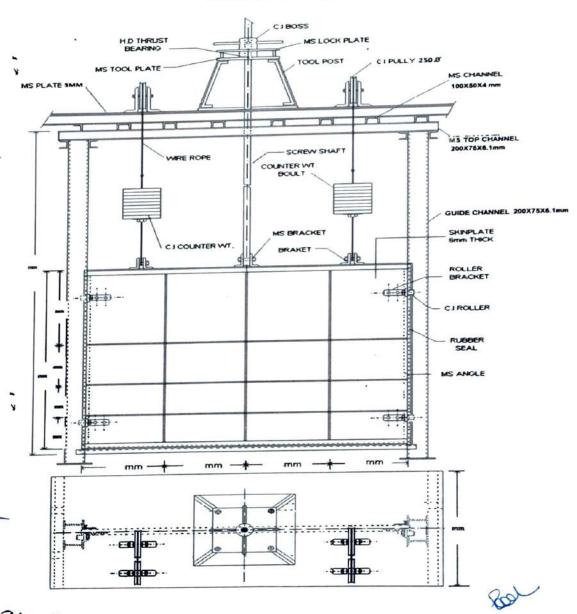
## FLOW IRRIGATION SCHEMES

#### **GOVERNMENT OF ASSAM**



### IRRIGATION DEPARTMENT

Schedule of Rate for supply, fabrication & installation of Steel Sluice Gates for Cross or Head Regulators



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Central Monitoring Cell Irrigative

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Central Manager 130 Imigabor

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#### OFFICE OF THE ADDL.CHIEF ENGINEER (MECH):: IRRIGATION DEPTT , ASSAM CHANDMARI: GUWAHATI-3

#### **DESIGN DATA FOR SLUICE GATE**

- Numbers of Horizontal Girder: From practical site experience it is assumed that 1(one) no of horizontal girder for First 1.0 Mtr height of sluice gate and 1(one) no. for every subsequent 0.50 Mtr height, apart from Frame should be selected.
- 2. Size of Horizontal Girder: From practical site experience it is assumed that ISMC 100 to be selected for Regulator gate size less than 5.0 M² and ISMC 125 for 5.0 M² to 10 .0 M² of gate size. For gate size more than 10 M<sup>2</sup>, ISMC 150 is to be used as Horizontal Girder.
- 3. Numbers& size of Vertical Stiffener: As per symmetry& simplicity of design, equal numbers and size of Vertical Stiffener that of Horizontal Girder should have selected.
- 4. Frame of Shutter Assembly: As per symmetry of design, same size of ISMC as of Girder & Stiffener should be selected for Shutter Frame.
- 5. Spacing of Horizontal Girder: Spacing of Girder may be calculated a Water Pressure Triangle Distribution Diagram.
- 6. Size of Guide Channel Assembly: From practical site experience it is assumed that ISMC 200 may be used for Guide Channel up to Regulator Gate size 10.0 M<sup>2</sup>
- 7. Length of Guide Channel Assembly: From practical site experience it is assumed that, Length of Guide Channel should be twice the height of the Regulator plus allowances (0.50 M to 1.50 M) depending upon site condition.
- Platform Assembly: Platform, wherever applicable should be minimum 1.25 M wide and 5.0 mm thick
- 9. Counter Weight: Total weight of Counter weight should be one third of the total weight of Shutter Assembly and should be distributed equally on both side of the Shutter Assembly.
- 10. Lifting Arrangement: Steel Wire rope of tested quality used for counter weight mechanism may be of size 12 mm to 19 mm diameter depending upon weight of the Regulators. 12 mm dia up to Shutter Assembly of 0.50 Ton weight, 16 mm dia up to 1.50 Ton and 19 mm dia for above 1.50 Ton.
- 11. Screw Shaft Hoist: Screw shaft hoist of diameter up to 50 mm may be used for Shutter Assembly size 5.0 M<sup>2</sup>, whereas Screw shaft of dia 63mm/75mm should be used for Shutter Assembly of size  $5.0 \, \text{M}^2 \text{ to } 10 \, \text{M}^2$  .
- 12. Mechanised Hoisting of Regulator: Manually operated screw hoist Gearbox or Rope drum Gearbox may be adopted for convenience of lifting of Gates. However, electrically operated Gearbox is not economical for Regulator size below 15.0 M<sup>2</sup>.
- 13. Material Cost: Cost of Iron materials in preparation of the Analysis were taken as Rs.70,000.00, but the latest market trends of the cost of Iron materials are around Rs. 75,000.00 in Guwahati. So, while preparing Estimate, same may be taken into account. Again, preparing the Analysis some approved rates of Irrigation Deptt., Assam as well as present market rate of Guwahati were taken.

(Er. Pulak Sarmah)

Addl.. Chief Engineer (Mech) O/o Chief Engineer, Irrigation, Assam

Chandmari, Guwahati-3

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#### 3. SCHEDULE OF RATES for works of

Mechanical Component under Irrigation Department, Govt. of Assam for the year 2023-24.

Detail specification of work for

FLOW IRRIGATION SCHEME (F.I.S.)

Schedule of Rate for supply, fabrication & installation of Steel Sluice Gates for Cross or Head Regulators

SL No.	Particulars of Items & Specification	Unit	Rate per Unit
1	Supply, Fabrication, Installation and Commissioning at site including painting of Shutter Assembly of Cross Regulator/ Head Regulator gates of different size made of 6 mm thick M.S. skin plate, with 10 mm dia. hole to be drilled at an interval of 150 mm apart on both the vertical sides and one horizontal side at the bottom at a fixed distance from the edge, and MS channel of size 100 mm x 50 mm x 4.7 mm or 125 mm x 65 mm x 5 mm for shutter frame, Horizontal girders and vertical stiffeners, fitting fixing of C.I. Guide Roller of size 75 mm x 67 mm x 100 mm x 20 mm having 25 mm dia hole with pin Guide roller M.S. bracket of size 90 mm x 90 mm x 250 mm made of 12 mm thick and 90 mm wide M.S. Flat with guide roller pin fitted on the shutter frame, having required slots and holes and supply, fitting and fixing of 'J' type rubber seal, of size 125 mm, 'J' type rubber seal corner of size 125 mm, with fabricated M.S. fastener of 50 mm width x 8 mm thick having 10 mm dia. hole at an interval of 150 mm apart for Regulator Gates complete as per design & drawing & as directed.		
	A] C/Regulator & H/Regulator GATES OF SIZE 5.0 M <sup>2</sup> or More  [Ref Annexure-I(a)]	M²	Rs. 37,498.61 [ Rupees Thirty Seven Thousand Four Hundred Ninety Eight and Paise Sixty One] only
	B] C/Regulator & H/Regulator GATES OF SIZE less than 5.0 M <sup>2</sup> [Ref Annexure-I(b)]	M <sup>2</sup>	Rs. 35,990.69 [ Rupees Thirty Five Thousand Nine Hundred Ninety and Paise Sixty Nine]only
_	Supply, fabrication, installation and commissioning including painting at site of guide channel assembly with fabricated MS channel of size ISMC: 200 (200 mm x 75 mm x 6.1 mm) up to a required length having holes of 19 mm dia at a distance of 20 mm from the outer edge and at an interval of 500 mm vertically for fitting of separator stud including anchoring at pier groove, anchoring to footing with MS plate of size 400 mm x 400 mm x 6 mm thick, MS separator stud of 19 mm dia threaded at both end x 400 mm L with washer, GI pipe separator of 25 mm dia, Embedded Chanel of size ISMC	М	Rs. 21,059.68 [Rupees Twenty One Thousand Fifty Nine and Paise Sixty Eight] only

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	200 in complete for Cross/ Head Regulator gates as per design & drawing & as directed.  [Measurement to be done as height of Guide Chanel Assembly as a whole, not for individual channel length.		
· B ( Marsh )	Supply, Fabrication, installation and commissioning including painting and fitting –fixing of fabricated platform assembly at site of Regulator gate and 1.25 M width with 2 nos top beam channel of size 200 mm x 75 mm x 6.1 mm, securely welded to supporting channel of size 125mm x 65mm x 5mm fabricated M.S. checkered plate, 5 mm thick and M.S. cross channel of size 100 mm x 50 mm x 4.7 mm for supporting platform having required number of slots and holes for the passage of wire rope and fitting of screw shaft assembly and M.S. Channel of length 1.25 M each to be welded at a distance of 0.50 M apart (Approx) across the top supporting beam with top beam and platform plate, to be welded with top channel and platform plate, GI pipe of 25 mm dia security railing(2 rows) with ISA6565 angle at approx. distance of 1.0 M and height 1.0 M on both side complete as per design & drawing and as directed.	M <sup>2</sup>	Rs. 20,110.97 [ Rupees Twenty Thousand One Hundred Ten and Paise Ninety Seven]only
4(a)	Supply, Fabrication, installation and commissioning including greasing, painting, etc. at site and fitting fixing of Lifting Arrangement for Regulator gate manually operated including M.S. Screw shaft of 40 mm/50mmdia along with C.I. Boss of size 150 mm x 200 mm, thrust bearing of 45 mm/55 mm (ID), operating wheel made of GI Pipes of 25 mm dia, securely fixed with lock plate & tool plate on fabricated tool post made of MS Tee bar 80 x 80 x 8mm fitting fixing of all these items complete as per design & drawing and as directed.	Job	Rs. 74,197.35 [ Rupees Seventy Four Thousand One Hundred Ninety Seven and Paise Thirty Five] only
4(b)	Supply, Fabrication, installation and commissioning including greasing, painting, etc. at site and fitting fixing of Lifting Arrangement for Regulator gate with manually operated Spur/Worm Gearbox made of Aluminium Bronze/ Grey Cast Iron of size 200mm or above with reduction ratio 10(minimum)at 50 RPM and vertical lifting speed upto 0.50 Mtr per minute capable to lift 3.0 Ton suitable for Screw Shaft hoisting including supply of M.S. Screw shaft of 40 mm/50mmdiacomplete with operating wheel made, securely fixed with tool plate on fabricated tool post made of MS Tee bar 80 x 80 x 8mm fitting fixing of all these items complete as per design & drawing and as directed.	Job	Rs. 1,17,934.35 [Rupees One Lakh Seventeen Thousand Nine Hundred Thirty Four and Paise Thirty Five] only
4(c)	Supply, Fabrication, installation and commissioning including greasing, painting, etc. at site and fitting fixing of Lifting Arrangement of Regulator gate with counter		

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weight mechanism including M.5. Screw shaft of G3mm/ 75mmdia along with C.I. Boss of size 200 mm x. 200 mm, thrust bearing of 65mm/ 75mm (ID), C.I. Grooved Pulley of size 250 mm dia and 150 mm dia, 2 x. 6 nos C.I. counter weight of size 375 mm dia x 37 mm thick of approx weight 30 kg each, fabricated Ms.5 hook for holding counter weight, tested quality steel wire rope of size 16 mm dia and required length, operating wheel made of GI pipes of 25 mm dia, securely fixed with lock plate & tool plate on fabricated tool post made of MS Tee bar 80 x 80 x 8mm fitting fixing of Lifting Arrangement of Regulator gate with counter weight mechanism and manually operated Spur/Worm Gearbox made of Aluminium Bronze/ Grey Cast Iron of size 250mm or above with reduction 10(minimum) at 50 RPM and vertical lifting speed up to 0.50 Mtr per minute capable to lift 5.0 Ton suitable for Screw Shaft hoisting complete with operating wheel, including supply of M.5. Screw shaft of 63 mm/ 75mmdia, C.I. Grooved Pulley of size 250 mm dia and 150 mm dia, 2 x 6 nos C.I. counter weight, tested quality steel wire rope of size 16 mm dia and required length, complete and securely fixed with tool plate on fabricated tool post made of fMS Tee bar 80 x 80 x 8mm fitting fixing of Lifting Arrangement of Regulator gate with Manual/ Electric operated Spur/Worm Gearbox made of Aluminium Bronze/ Grey Cast Iron of size 250mm or above with reduction 10 (minimum) at 100 RPM and vertical lifting speed of 1.0 Mtr per minute or more capable to lift 10 Ton coupled with 81HP 5HP 3-phase electric induction motor with operating wheel, etc. in complete, suitable for rope drum hoisting including supply of C.I. Grooved rope drum, 250mm dia. X 45mm L, tested quality steel wire rope of size 16 mm dia and required length, Rain-shed box, Stuffing Box, Line shaft of 75 mm dia, etc. securely fixed with tool plate on fabricated. I Any HT/ LT electric connection would have to measure as extra		5		
including greasing, painting, etc. at site and fitting fixing of Lifting Arrangement of Regulator gate with counter weight mechanism and manually operated Spur/Worm Gearbox made of Aluminium Bronze/ Grey Cast Iron of size 250mm or above with reduction 10(minimum) at 50 RPM and vertical lifting speed up to 0.50 Mtr per minute capable to lift 5.0 Ton suitable for Screw Shaft hoisting complete with operating wheel, including supply of M.S. Screw shaft of 63 mm/ 75mmdia, C.I. Grooved Pulley of size 250 mm dia and 150 mm dia , 2 x 6 nos C.I. counter weight of size 375 mm dia x 37 mm thick of approx weight 30 kg each, fabricated M.S. hook for holding counter weight , tested quality steel wire rope of size 16 mm dia and required length, complete and securely fixed with tool plate on fabricated tool post made of MS Tee bar 80 x 80 x 8mm fitting fixing of all these items complete as per design & drawing and as directed.  4(e) Supply, Fabrication, installation and commissioning including greasing, painting, etc. at site and fitting fixing of tlifting farrangement of Regulator gate with Manual/ Electric operated Spur/Worm Gearbox made of Aluminium Bronze/ Grey Cast Iron of size 250mm or above with reduction 10 (minimum) at 100 RPM and vertical lifting speed of 1.0 Mtr per minute or more capable to lift 10 Ton coupled with 3HP/ 5HP 3-phase electric induction motor with operating wheel, etc. in complete, suitable for rope drum hoisting including supply of C.I. Grooved rope drum, 250mm dia. X 45mm L, tested quality steel wire rope of size 16 mm dia and required length, Rain-shed box, Stuffing Box, Line shaft of 75 mm dia, etc. securely fixed with tool plate on fabricated Platform& fitting fixing of all these items complete as per design & drawing and as directed.  [Any HT/LT electric connection would have to measure as extra		63mm/ 75mmdia along with C.I. Boss of size 200 mm; 200 mm, thrust bearing of 65mm/ 75mm (ID), C.I. Grooved Pulley of size 250 mm dia and 150 mm dia, 2 constant for approximate thick of approximate approximate and size 375 mm dia x 37 mm thick of approximate approximate approximate and size 375 mm dia x 37 mm thick of approximate	X X X X X X X X X X X X X X X X X X X	[ Rupees One Lakh Seventy Seven Thousand Seven Hundred Eleven and
including greasing, painting, etc. at site and fitting fixing of Lifting Arrangement of Regulator gate with Manual/ Electric operated Spur/Worm Gearbox made of Aluminium Bronze/ Grey Cast Iron of size 250mm or above with reduction 10 (minimum) at 100 RPM and vertical lifting speed of 1.0 Mtr per minute or more capable to lift 10 Ton coupled with 3HP/ 5HP 3-phase electric induction motor with operating wheel, etc. in complete, suitable for rope drum hoisting including supply of C.I. Grooved rope drum, 250mm dia. X 45mm L, tested quality steel wire rope of size 16 mm dia and required length, Rain-shed box, Stuffing Box, Line shaft of 75 mm dia, etc. securely fixed with tool plate on fabricated Platform& fitting fixing of all these items complete as per design & drawing and as directed.  [ Any HT/ LT electric connection would have to measure as extra	4(d)	including greasing, painting, etc. at site and fitting fixing of Lifting Arrangement of Regulator gate with counter weight mechanism and manually operated Spur/Worm Gearbox made of Aluminium Bronze/ Grey Cast Iron of size 250mm or above with reduction 10(minimum) at 50 RPM and vertical lifting speed up to 0.50 Mtr per minute capable to lift 5.0 Ton suitable for Screw Shaft hoisting complete with operating wheel, including supply of M.S. Screw shaft of 63 mm/ 75mmdia, C.I. Grooved Pulley of size 250 mm dia and 150 mm dia, 2 x 6 nos C.I. counter weight of size 375 mm dia x 37 mm thick of approx weight 30 kg each, fabricated M.S. hook for holding counter weight, tested quality steel wire rope of size 16 mm dia and required length, complete and securely fixed with tool plate on fabricated tool post made of MS Tee bar 80 x 80 x 8mm fitting fixing of all these items complete as per design & drawing and as	Job	[Rupees Two Lakh Fifty Two Thousand Seven Hundred Forty One
Standard Control of the Control of t		including greasing, painting, etc. at site and fitting fixing of Lifting Arrangement of Regulator gate with Manual/ Electric operated Spur/Worm Gearbox made of Aluminium Bronze/ Grey Cast Iron of size 250mm or above with reduction 10 (minimum) at 100 RPM and vertical lifting speed of 1.0 Mtr per minute or more capable to lift 10 Ton coupled with 3HP/ 5HP 3-phase electric induction motor with operating wheel, etc. in complete, suitable for rope drum hoisting including supply of C.I. Grooved rope drum, 250mm dia. X 45mm L, tested quality steel wire rope of size 16 mm dia and required length, Rain-shed box, Stuffing Box, Line shaft of 75 mm dia, etc. securely fixed with tool plate on fabricated Platform& fitting fixing of all these items complete as per design & drawing and as directed. [Any HT/LT electric connection would have to measure	Job	(Rupees Three Lakh Seventeen Thousand Seven Hundred Fifty Two and Paise Five )

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N.B: - Rates are inclusive of GST & all other taxes/ charges but exclusive of Forest Royalty

Prepared By

(Er. Pulak Sarmah)

Addl. Chief Engineer (Mech) O/o Chief Engineer, Irrigation, Assam

Chandmari, Guwahati-3

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