



**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**

# 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.)

Sl. 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	<b>Rs. 1,081.96</b> [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	<b>Rs. 5,609.73</b> [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	<b>Rs. 5,609.73</b> [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	<b>Rs. 6,274.52</b> [Rupees Six Thousand Two Hundred Seventy Four and Paise Fifty Two] only

Asst. Chief Engineer  
O/o The Addl. Chief Engineer (Mech)  
Irrigation, Chandernagar, Guwahati-3





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	<b>Rs. 2,095.33</b> [Rupees Two Thousand Ninety Five and Paise Thirty Three] Only
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	<b>Rs. 8,722.54</b> [Rupees Eight Thousand Seven Hundred Twenty Two and Paise Fifty Four] Only
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	<b>Rs. 6,473.86</b> [Rupees Six Thousand Four Hundred Seventy Three and Paise Eighty Six] Only
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	<b>Rs. 7,598.20</b> [Rupees Seven Thousand Five Hundred Ninety Eight and Paise Twenty] Only
1.5.1	Shrouding of the DTW assembly by river pea gravel of size 4 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>	<b>Rs. 7,222.23</b> [Rupees Seven Thousand Two Hundred Twenty Two and Paise Twenty Three] Only



1.6.1	<p>Developing the tube well assembly by Air-Compressor of capacity 8 – 12 kg/cm<sup>2</sup> and CFM = 450 M<sup>3</sup>/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])</p> <p>The following data should be reflected in the report of development :</p> <ol style="list-style-type: none"> <li>1. Static water level</li> <li>2. Drawdown at various discharge</li> <li>3. Available average discharge )</li> </ol>	Hr	<p style="text-align: center;"><b>Rs. 3,684.52</b> [Rupees Three Thousand Six Hundred Eighty Four and Paise Fifty Two] Only</p>
1.7.1	<p>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.</p>	Job	<p style="text-align: center;"><b>Rs. 31,346.16</b> [Rupees Thirty One Thousand Three Hundred Forty Six and Paise Sixteen] Only</p>
1.7.2	<p>Installation, Testing &amp; 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</p>	Job	<p style="text-align: center;"><b>Rs. 36,210.68</b> [Rupees Thirty Six Thousand Two Hundred Ten and Paise Sixty Eight] Only</p>
1.8.1	<p>Supply, Installation, Testing &amp; 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 &amp; 1 no. of 2.0 Mtr length. Each column pipe should have both end threaded &amp; 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<sup>0</sup>, 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&amp; bolts (HT) of size 16 mm dia x 250 mm L at site as directed</p> <p>The efficiency of the pump should not be below 75% of the rated duty point.</p>	Job	<p style="text-align: center;"><b>Rs. 2,64,210.68</b> [Rupees Two Lakh Sixty Four Thousand Two Hundred Ten and Paise Sixty Eight]) Only</p>

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Assistant Engineer (Mech) ITD  
 for special duty  
 Irrigation Cell Irrigation  
 City-03  
 Assistant Engineer (Mech) ITD  
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 Irrigation Cell Irrigation  
 City-03





<p>1.8.4</p> <p>Executive Engineer (Mech) ITC Savel Engineer (Mech) ITC Chandmani Gms 3 Executive Engineer (Mech) ITC Savel Engineer (Mech) ITC Chandmani Gms 3 Executive Engineer (Mech) ITC Savel Engineer (Mech) ITC Chandmani Gms 3</p>	<p>Supply, Installation, Testing &amp; Commissioning including 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 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 &amp; 1 no. of 2.0 Mtr length. Each column pipe should have both end threaded &amp; 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<sup>0</sup> , 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&amp; bolts (HT) of size 16 mm dia x 250 mm L at site as directed.</p> <p>The efficiency of the pump should not be below 75% of the rated duty point .</p>	<p>Job</p>	<p><b>Rs. 1,69,710.68</b> [Rupees One Lakh Sixty Nine Thousand Seven Hundred Ten and Paise Sixty Eight] Only</p>
<p>1.8.5</p> <p>Executive Engineer (Mech) ITC Savel Engineer (Mech) ITC Chandmani Gms 3 Executive Engineer (Mech) ITC Savel Engineer (Mech) ITC Chandmani Gms 3 Executive Engineer (Mech) ITC Savel Engineer (Mech) ITC Chandmani Gms 3</p>	<p>Supply, Installation, Testing &amp; Commissioning including transportation at site of electric motor driven submersible 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 &amp; 1 no. of 2.0 Mtr length. Each column pipe should have both end threaded &amp; 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<sup>0</sup> , 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&amp; bolts (HT) of size 16 mm dia x 250 mm L at site as directed</p> <p>The efficiency of the pump should not be below 75% of the rated duty point.</p>	<p>Job</p>	<p><b>Rs. 1,42,710.68</b> [Rupees One Lakh Forty Two Thousand Seven Hundred Ten and Paise Sixty Eight] Only</p>



1.9.1	Supply, fitting-fixing of delivery pipes of 150 mm dia GI/ fabricated GI pipes (HD of repute brand with ISI marked) with flange at both end/ wherever required with pipe jointing sets, including painting in complete as per drawing / specification including temporary pipe support as required and as directed.	RM	<b>Rs. 5,735.64</b> [Rupees Five Thousand Seven Hundred Thirty Five and Paise Sixty Four] only
1.9.2	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	<b>Rs. 11,325.82</b> [Rupees Eleven Thousand Three Hundred Twenty Five and Paise Eighty Two] only
	(ii) 125 mm Dia	Job	<b>Rs. 13,786.82</b> [Rupees Thirteen Thousand Seven Hundred Eighty Six and Paise Eighty Two] only
	(iii) 150 mm dia	Job	<b>Rs. 15,921.82</b> [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	<b>Rs. 11,821.82</b> [Rupees Eleven Thousand Eight Hundred Twenty one and Paise Eighty Two] only

	(ii) 125 mm dia	Job	<b>Rs. 13,821.82</b> [Rupees Thirteen Thousand Eight Hundred Twenty one and Paise Eighty Two] only
	(iii) 150 mm dia	Job	<b>Rs. 16,621.82</b> [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	<b>Rs. 1,41,855.31</b> [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 <sup>0</sup> /90 <sup>0</sup> /120 <sup>0</sup> with GI/ fabricated GI pipes with flange at both end and pipe jointing sets, including painting as per drawing & specification as directed.	Job	<b>Rs. 3,621.82</b> [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	<b>Rs. 3,621.82</b> [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

Chandmari, Guwahati-3

APPROVED

  
Addl. Chief Engineer (Mech)  
Irrigation Deptt.  
Assam, Chandmari, Guwahati-03

  
O/o The Addl. Chief Engineer (Mech)  
Irrigation Chandmari, Guwahati-3



# **2**

## **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.5)**

Sl 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	<b>Rs. 26,274.79</b>  [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, taper 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 from 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	<b>Rs. 967.15</b>  [Rupees Nine Hundred Sixty Seven and Paise Fifteen Only]
2.3	Providing, fitting, fixing and erection of pipe supports for each pipeline at an 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	<b>Rs. 4,448.31</b>  [Rupees Four Thousand Four Hundred Forty Eight and Paise Thirty One Only]
2.4.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 to 3 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	<b>Rs. 11,873.52</b>  [Rupees Eleven Thousand Eight Hundred Seventy Three and Paise Fifty Two Only]



	<p>components,</p> <ol style="list-style-type: none"> <li>1) MCB (3 ph, 415 V, 50 Hz, 25 KVA, 16 Amp)</li> <li>2) Voltmeter (0-500 V)</li> <li>3) Ammeter (0-25 Amp)</li> <li>4) Electro switch for Voltmeter</li> <li>5) Induction lamp (R-Y-B)</li> </ol> <p>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.</p>		
2.4.B	<p>Supply and installation of overhead tank along with stand: Fabrication and supply of M.S. tank of size 0.6Mt x 0.6Mt x 0.6Mt 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.</p>		<p><b>Rs. 17,020.31</b></p> <p>[Rupees Seventeen Thousand Twenty and Paise Thirty One Only]</p>
2.4.C	<p>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.</p>	Job	<p><b>Rs. 2,377.47</b></p> <p>[Rupees Two Thousand Three Hundred Seventy Seven and Paise Forty Seven Only]</p>
2.5	<p>Starter Stand: Supply &amp; Installation of MS Starter Stand made of MS Angle of size 50mm x 50mm x 5mm 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.</p>	Job	<p><b>Rs. 8,530.37</b></p> <p>[Rupees Eight Thousand Five Hundred Thirty and Paise Thirty Seven Only]</p>
2.6	<p>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 &amp; 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.</p>	Job	<p><b>Rs. 7,278.41</b></p> <p>[Rupees Seven Thousand Two Hundred Seventy Eight and Paise Forty One Only]</p>
2.7	<p>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.</p>	Job	<p><b>Rs. 29,410.23</b></p> <p>[Rupees Twenty Nine Thousand Four Hundred Ten and Paise Twenty Three Only]</p>

Executive Engineer (MCH)  
Central Monitoring Cell  
Chandernagar, Ghzy-03

Asst. Executive Engineer (Mech)  
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Central Monitoring Cell  
Chandernagar, Ghzy-03

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

Executive Engineer (CI)  
Central Waterworks  
Chennai

Asst. Executive Engineer (Mech)  
Chief Engineer (Mech)  
Asst. Executive Engineer (Mech)  
Asst. Executive Engineer (Mech)  
Asst. Executive Engineer (Mech)

Asst. Executive Engineer (Mech)  
Chief Engineer (Mech)  
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Chief Engineer (Mech)  
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Asst. Executive Engineer (Mech)  
Chief Engineer (Mech)  
Asst. Executive Engineer (Mech)  
Asst. Executive Engineer (Mech)

Asst. Executive Engineer (Mech)



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	<b>Rs. 1,237.89</b> [Rupees One Thousand Two Hundred Thirty Seven and Paise Eighty Nine Only]
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	<b>Rs. 6,563.14</b> [Rupees Six Thousand Five Hundred Sixty Three and Paise Fourteen Only]
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	<b>Rs. 24,186.71</b> [Rupees Twenty Four Thousand One Hundred Eighty Six and Paise Seventy One Only]
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	<b>Rs. 54,138.87</b> [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	<b>Rs. 25,050.22</b> [Rupees Twenty Five Thousand Fifty and Paise Twenty Two Only]
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.	Job	<b>Rs. 6,041.81</b> [Rupees Six Thousand Forty One and Paise Eighty One Only]

2.15	Laying and connection of cables such as Feeder cable, priming motor cable, lighting cable etc.		
	i) 35 sq mm x 3 ½ core	Job	<b>Rs. 1,400.42</b> [Rupees One Thousand Four Hundred and Paise Forty Two Only]
	ii) 25 sq mm x 3 ½ core	Job	<b>Rs. 1,136.62</b> [Rupees One Thousand One Hundred Thirty Six and Paise Sixty Two Only]
	iii) 16 sq mm x 3 core	Job	<b>Rs. 778.38</b> [Rupees Seven Hundred Seventy Eight and Paise Thirty Eight Only]
	iv) 6 sq mm x 2 core	Job	<b>Rs. 599.25</b> [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. 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	<b>Rs. 23,088.81</b> [Rupees Twenty Three Thousand Eighty Eight and Paise Eighty One Only]

Chief Monitoring Cell Irrigation  
Chandman, Ghy, 03

Asst. Executive Engineer (Mech. E) (for work) Chief Engineer (Mech. E) Irrigation, Dept. Chandernagore

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Asst. Executive Engineer (Mech. E) (for work) Chief Engineer (Mech. E) Irrigation, Dept. Chandernagore

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# **3**

## **FLOW IRRIGATION SCHEMES**

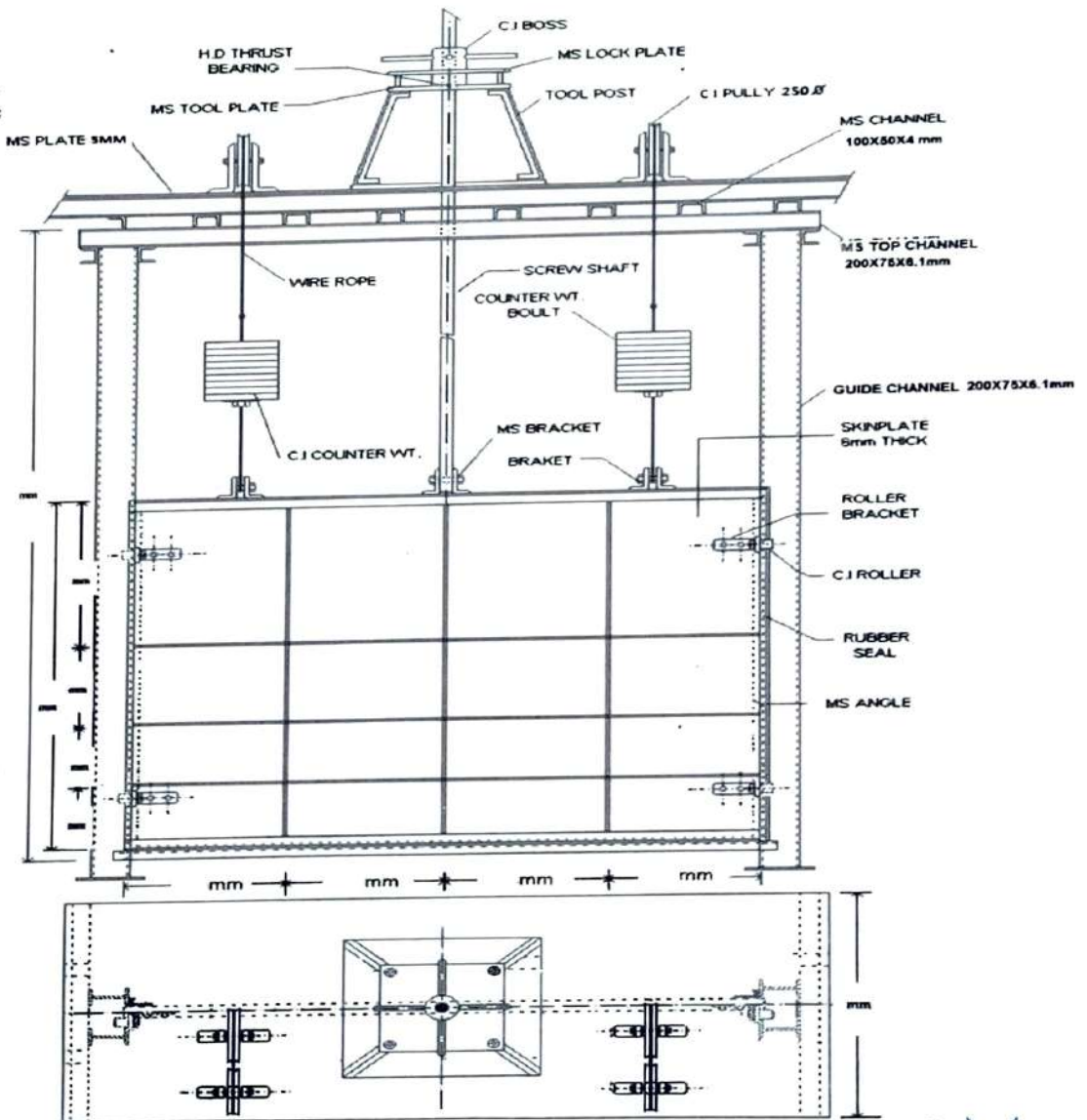


GOVERNMENT OF ASSAM



IRRIGATION DEPARTMENT

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



*Only*

For work: Drafting  
 Irrigation Dept. Chandmari Guwahati

Asst. Executive Engineer (Mech) ITC  
 For work: Steel Engineer (Mech) ITC  
 Irrigation Dept. Chandmari Guwahati

*Bob*

*Roachy*  
 Executive Engineer (TC)  
 Central Monitoring Cell Irrigation

*Mish*  
 O/o The Addl. Chief Engineer (I.Tech)  
 Irrigation Chandmari, Guwahati-3

*Roachy*  
 Executive Engineer (TC)  
 Central Monitoring Cell Irrigation  
 Chandmari, Guwahati-3







	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.		
8	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>	<b>Rs. 20,110.97</b> [ 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	<b>Rs. 74,197.35</b> [ 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/ 50mmdia complete 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	<b>Rs. 1,17,934.35</b> [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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Chandmani, Ghy-03

Asst. Engineer (ITC)  
Central Monitoring Cell Irrigation  
Chandmani, Ghy-03

Asst. Executive Engineer (Mech ITC)  
Central Monitoring Cell Irrigation  
Chandmani, Ghy-03

Asst. Executive Engineer (Mech ITC)  
Central Monitoring Cell Irrigation  
Chandmani, Ghy-03

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Executive Engineer (ITC)  
Central Monitoring Cell Irrigation  
Chandmani, Ghy-03

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	weight mechanism including M.S. Screw shaft of 63mm/ 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 M.S. 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 all these items complete as per design & drawing and as directed.	Job	<b>Rs. 1,77,711.30</b> [ Rupees One Lakh Seventy Seven Thousand Seven Hundred Eleven and Paise Thirty ] only
4(d)	Supply, Fabrication, installation and commissioning 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.	Job	<b>Rs. 2,52,741.30</b> [Rupees Two Lakh Fifty Two Thousand Seven Hundred Forty One and Paise Thirty ] only
4(e)	Supply, Fabrication, installation and commissioning 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	Job	<b>Rs. 3,17,752.05</b> (Rupees Three Lakh Seventeen Thousand Seven Hundred Fifty Two and Paise Five ) only

Executive Engineer (Mech) Irrigation, Chanamari, Guwanati-3

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Asst. Executive Engineer (Mech) Irrigation, Chanamari, Guwanati-3

Asst. Executive Engineer (Mech) Irrigation, Chanamari, Guwanati-3

5	Supply, Fabrication, Erection /Installation including Painting and fitting -fixing of fabricated MS Ladder of 0.75 M width and required length on the side of Regulator gate made of M.S. Channel ISMC : 100 (100mm x 50mm x 4.7mm ) M.S. plate (checkered) 6 mm thick and 25 mm dia , G.I. pipe . The ladder consist of inclined bar of M.S. Channel, horizontal member for numbers of steps as required, Railing post of M.S. Angle of size ISA 6565 and G.I. pipe railing of size 25 mm(ID) in complete as directed. [ Any C C work to be measured extra]	M	<b>Rs. 13,665.84</b> [Rupees Thirteen Thousand Six Hundred Sixty Five and Paise Eighty Four] only
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N.B :- Rates are inclusive of GST & all other taxes/ charges but exclusive of Forest Royalty

Prepared By

*Pool*

(Er. Pulak Sarmah)

Addl. Chief Engineer (Mech)

O/o Chief Engineer, Irrigation, Assam

Chandmari, Guwahati-3

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Asstt. Chief Engineer (Mech)  
O/o The Addl. Chief Engineer (Mech)  
Irrigation Chandmari, Guwahati-3

*Abachy*

Executive Engineer (TC)  
Central Monitoring Cell Irrigation  
Chandmari, Guwahati-03

APPROVED

*M*

Chief Engineer  
Irrigation Deptt.  
Assam, Chandmari, Guwahati-03

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O/o Addl. Chief Engineer (Mech)  
Irrigation Deptt. Chandmari Ghy. 3

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Irrigation Deptt. Chandmari Ghy. 3