

Stores and Plant available for transfer—
Return for the half-year ending 31st
March 1895.

No. 865 A. of 1895.

PUBLIC WORKS DEPARTMENT:
Bombay Castle, 14th June 1895.

CIRCULAR MEMORANDUM.

With reference to Government Resolution No. 2318, dated 3rd October 1868, the following articles are not required by the undermentioned Executive Engineers.

2. Chief and Superintending Engineers are enjoined to see that Executive Engineers avail themselves, to the utmost extent possible, of the Tools, Plant, and Stores available for transfer in other districts. Purchases of articles obtainable from another District should be prohibited, as it is imperative to reduce the amount of stock.

3. Each return should be prepared in the form given below, the same arrangement of items being also followed. Care should be taken to make the description of each item full and complete:—

Names of Articles.	District in which available,	Number.	First Cost, exclusive of Carriage.	First Cost, less Annual Depreciation and Wear and Tear.	Estimated Present Value.
			Rs. a. p.	Rs. a. p.	Rs. a. p.
<i>House Fittings.</i>					
Bolts, French, 10 ft. long	Presidency ...	4	70 0 0	70 0 0	70 0 0
Do. do. 8 ft. long (76 new, 88 repairable).	Do. ...	164	824 12 4	824 12 4	824 12 4
Finger plates, oak	Do. ...	246	308 11 1	308 11 1	184 8 0
Do. do. porcelain	Do. ...	11	16 8 0	16 8 0	13 12 0
Handles, spring, brass, for windows	Do. ...	78	78 0 0	78 0 0	52 0 0
Joists, rolled iron, 14' x 10" x 5"	Do. ...	6	155 10 3	155 10 3	155 10 3
Do. do. 16' x 10" x 5"	Do. ...	1	29 10 4	29 10 4	29 10 4
Do. do. 9' x 6" x 5"	Do. ...	2	26 13 10	26 13 10	26 13 10
<i>Tools.</i>					
Bars, mining	Sholápur ...	600	600 0 0	450 0 0	450 0 0
Do., tamping, copper, varying from 3' 6" to 4' 6" in length and 1" diameter; in good condition	Poona Irrigation ...	78	515 15 0	515 0 0	515 0 0
Bill hooks	Kánara ...	60	90 0 0	60 0 0	60 0 0
Chisels, morticing	Do. ...	11	14 0 0	11 0 0	11 0 0
Hammers, sledge, weight of each 4 to 10 lbs.	Khándesh ...	200			200 0 0
Picks' laterite	Kánara ...	97	194 0 0	97 0 0	97 0 0
<i>Plant and Machinery.</i>					
Axles, wrought-iron, 43 lbs. each... ..	Belgaum ...	49			(a) 50 0 0
Blocks, pulleys (wooden and iron)	Kánara ...	10	210 0 0	150 0 0	150 0 0
Centres, for 20' bridges	Kaira ...	29			1,450 0 0
Chairs, iron, moulding trucks, 18 lbs. each	Belgaum ...	40			(a) 34 0 0
Do. railway	Kánara ...	290	254 0 0	217 0 0	217 0 0
Do. do.	Khándesh Irrigation. ...	9		5 0 0	5 0 0
Crane, transportable	Kánara ...	1	1,091 0 0	1,091 0 0	1,091 0 0
Crossing, reversible	Do. ...	4	941 0 0	500 0 0	500 0 0

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Plant and Machinery—continued.					
Crossing, reversible, in length 11 inches at the both ends, 3 inches at one side and 6 inches at the other side	Khândesh Irrigation.	4		60 0 0	60 0 0
Engine, portable, 8 horse-power	Sâtâra...	1			2,000 0 0
(a) Do. do. 10 do.	Khândesh Irrigation.	1		2,184 0 0	(a)2,000 0 0
Do. do. do.	Do. ...	1	3,375 0 0	1,700 0 0	1,700 0 0
Do. do. 13 do.	Ahmednagar ...	1			
Do. steam, 6 horse-power	Do. ...	1			
Fragments of girders, of sizes	Kaira ...	20			(b)8 0 0
Indicator, steam	Sâtâra...	1			70 0 0
Jim, crow	Khândesh Irrigation.	1	40 0 0	20 0 0	20 0 0
Machines, concrete mixing, complete. Messants Patent fitted with hoppers holding 14 c.ft. wooden frame with cast-iron wheels, guage of wheels, 5' 6" old but serviceable with slight repairs	Poona Irrigation.	5	6,000 0 0	3,000 0 0	2,000 0 0 (Rs.400 each).
Machines, pile-driving, with monkeys	Dhârwar ...	3			750 0 0
(c) Machine, pile-driving, with 2 winches	Belgaum ...	2	350 0 0	135 0 0	(d)135 0 0
Mills, mortar, set of 4 mortar mills to be driven by steam (all 4 can be driven simultaneously by a 12 horse-power engine), cast-iron frames with pans 6' 6" diameter, 11" deep, cast-iron packing pieces in pan, two sets of wrought-iron scrapers and 2 cast-iron rollers in each pan. Rollers 3' diameter × 14" width, 1 fixed and one loose pulley each, 2' 11½" diameter and 6" width fitted to gear of each mill main driving shaft 33' long 3" diameter in two pieces (15' and 18' long respectively) with coupling joint shaft fitted with 4 broad pulleys 2' 11½" diameter × 12" wide and one driving pulley 5' 6¼" × 8¼" wide and 3 pedestals for support; in good condition	Poona Irrigation.	1 set of 4	4,400 0 0	4,000 0 0	2,000 0 0.
Plates, fish	Kânara ...	214	160 0 0	80 0 0	80 0 0
Plumbobs	Sholâpur ...	21	9 0 0	4 9 0	4 9 0
Pulsometer No. 6. This is No. 6 Pulsometer steam pump occupying 27" × 27" space and with 4½" diameter suction and 3½" delivery pipes discharging nearly ¼rd to ½ cubic foot of water per second... ..	Khândesh Irrigation.	1	750 0 0	450 0 0	(e)450 0 0
Pulleys, iron, 3½' diameter	Kaira ...	2			20 0 0
Do. differential:—					
Diameter of wheels.	Length of chain when doubled.	Power tested to.			
No. 1. 11" × 6"	25'	30 cwts.	} Khândesh Irrigation.	2	102 0 0
No. 2. 8" × 5"	25'	1 ton.			
Pumps:—					
No. 1. A double barrelled lift and force iron pump with 4" diameter bore of working barrel and 3" diameter bore of suction and delivery pipes useful for deep wells and for bullock power delivery about 1,000 gallons per hour with 25 strokes per minute.					

(a) On loan with the Executive Engineer, Násik.

(b) Per cwt.

(c) Iron work only exists.

(d) Each in bad order,

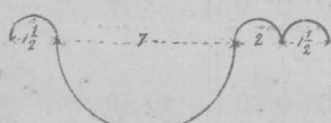
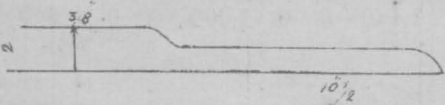
(e) With the Executive Engineer, Násik.

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<i>Plant and Machinery—continued.</i>					
No. 2. A double barrel (3½" diameter) hand-power lift and force pump of the Kite motion railway pattern, diameter of suction pipe 1½", diameter of delivery pipe 1½", delivery about 1,000 gallons per hour with 30 strokes per minute (the air vessel is broken).	Khândesh Irrigation.	5	800 0 0	480 0 0	(a)480 0 0
No. 3. A similar pump to No. 2 but with ordinary crank motion bore of working barrel 3", bore of suction and delivery pipes 1½", delivery about 700 gallons per hour with 30 strokes per minute.					
No. 4. A hand-power lift pump with a barrel of 3½" diameter, delivery about 700 gallons per hour with 20 strokes per minute.					
No. 5. A centrifugal pump with 4" delivery and suction pipe delivery about 200 to 10,000 gallons per minute depending upon the lift and horse-power of the driving engine.					
Pump, centrifugal, 5" diameter	Ahmednagar ...	1			
Do. do. 7" do.	Do. ...	1			
Pumps, Contractors' lift, diameter of supply pipes 4"	Do. ...	3			
Pump do. do. do. 5"	Do. ...	1			
Pumps, Rotary lift, diameter of supply pipes 2½"	Do. ...	3			
Pump do. do. do. 3"	Do. ...	1			
Do. Cornish, direct acting steam, A. S. Cameron's Patent, Tangye Brothers, Sole Makers, Birmingham, special pump diameter of piston 5" and length of stroke 9", diameter of steam pipes 1" and diameter of feed and supply pipes 3", size of boiler outside diameter 2' 9" and height 6', supply to boiler by small Donkey pump; in good condition	Poona Irrigation.	1			400 0 0
Pumps, Rotary, Colebrookes, W. Reed & Co., Makers, with 8 wrought-iron rollers each 1½" diameter and 12" long, diameter of feed and supply pipes 2", driving wheels 15", diameter 4½" wide, outside dimension of whole 2' 9" x 1' 9" x 11"; in good condition	Do. ...	1	433 0 0	350 0 0	100 0 0
Pumps, sand	Dhárwár ...	2			100 0 0
Pump, wind	Kaira ...	1	463 0 0	200 0 0	200 0 0
Punching and cutting machine, without handle, and to punch up to 3/8" diameter	Khândesh ...	1			350 0 0
Rails, iron	Kánara ...	130	3,640 0 0	1,820 0 0	1,820 0 0
Do. steel, stock, ends and points, 4 of each set .	Khândesh Irrigation.	4	100 0 0	60 0 0	60 0 0
Rollers, iron, length 4', diameter 3' 6"; aproximate weight 2 tons	Do. ...	2	620 0 0	480 0 0	480 0 0
Rope, Manilla, 6" circumference, 350 R. feet	Dhárwár ...	1			105 0 0
Saw Table, with 2 saws and without wood work	Sátára ...	1			150 0 0
Do. Table, 5' x 3', with fly-wheel, to work up to 16" saws, (in repairable condition), without saws and 7" driving pulley	Khândesh ...	1			300 0 0

(a) One with the Executive Engineer, Násik.

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<i>Plant and Machinery—concluded.</i>					
Screw, union, 1' 10" long, 1½" diameter, weight 27 lbs. ...	Ahmednagar ...	1			5 0 0 (each.)
Shaft, iron, 18' × 2½" diameter ...	Kaira ...	1			20 0 0
Spikes, cap head ...	Kánara ...	1,300	104 0 0	81 0 0	81 0 0
Trucks, wooden, complete :—					
5' × 3' bottom 5½' × 3½' top 1' 6" depth 2' 6" gauge.	} Capacity 25.7 cubic feet nearly. Khandesh Irrigation.	50	6,000 0 0	3,000 0 0	3,000 0 0
Tubes, forges, portable ...	Kánara ...	4	80 0 0	40 0 0	40 0 0
Wedges, blunt, iron ...	Do. ...	506	664 0 0	332 0 0	332 0 0
Do. sharp, steeled ...	Do. ...	181	306 0 0	153 0 0	153 0 0
Wheels, cast-iron, 18" diameter ...	Belgaum ...	23½ pairs.			(a) 34 0 0
Do. Trolly, (metre-gauge) 2" axles, cast-iron flanged wheels, 12" diameter (measured over rails), turned bearing on axle for chairs, inside the wheels, for metre gauge tram line; in good condition ...	Poona Irrigation.	36 pairs.	1,440 0 0	1,000 0 0	540 0 0 (Rs. 15 each).
Do. Lorry :—					
Gauge 2' 6" diameter. 1' 5" thickness of run. 2 to 3 inches.	} Khandesh Irrigation.	4		12 0 0	12 0 0
Do. Trolly, sets ...	Sholapur ...	7	490 0 0	400 0 0	400 0 0
Winches, crab ...	Dhárwar ...	3			240 0 0
Do. steam, complete, 2½-ton (Stothort and Pitt) Feed tank base outside dimension 7' 10" × 5' × 13". Boiler 4' diameter, height 7' 11", double steam cylinder 9½" diameter, and stroke of piston 9". Drum length 3' 6" clear and diameter 13½", on one side of which is a brake wheel and cone or piston for loose rope, and on the other a fly-wheel actuating the feed pump from tank to boiler; in very good order ...	Poona Irrigation.	2	7,738 0 0	7,738 0 0	3,869 0 0 (For both).
Winch, with bullock gear, 3 tons power hand winch, drum, 7½" diameter, 2' long, bullock gear, with horizontal shaft, connecting pinions of bullock gear and winch, diameter of shaft 2" length 18' 10" with 3 pedestals. Bevil spur wheels, of gear 4' 6" diameter on vertical shaft 3½" diameter, 4' height, length of radial arms for bullocks 16 feet, of which there are 2 in good condition ...	Do. ...	1	665 0 0	400 0 0	300 0 0
Yokes, wooden ...	Khandesh Irrigation.	24		12 0 0	12 0 0
<i>Miscellaneous.</i>					
Bars, iron, round, 1½" to 3" diameter, in lengths of 14 to 18 feet ...	Khandesh ...	18,240 lbs.			1,140 0 0
Beltings :—					
No. 1, 57 feet in length and 6 inches in width, in two pieces, 38' × 19'.	} Do. Irrigation.	2	132 0 0	45 0 0	45 0 0
No. 2, 40 feet in length and 5 inches in width,					

(a) Per ton.

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<i>Miscellaneous—continued.</i>			Rs. a. p.	Rs. a. p.	Rs. a. p.
Bolts, 8½" × ¾" and nuts, 1" × 1" × ½" ...	Shikarpur Canals.	1,500	}	}	
Cast, level, washers, 1½" diameter × ½" thick ...	Do. ...	1,500			
Cutters, 1½" × ½" × ½" ...	Do. ...	1,500			
Steel fish-plates, 14" long × ½" thick section ...	Do. ...	265			
 Do. sheet piles, 9' long × ½" thick section ...	Do. ...	184	3,649 12 1	3,410 0 0	3,410 0 0 (in good order)
 Do. washer bars, 9' long × 2" × ½" ...	Do. ...	300	}	}	
Do. plates (total running feet 684, length from 3' 3" to 22' 9") size 10½" × ¾", width one edge turned for 2" (with holes 9" apart) ...	Do. ...	48			
 Cast-iron stand posts, T heads, 3" (internal diameter) gun-metal coupling and cast-iron caps 4' 3" high...	Poona...	2	36 6 6 (each).	50 0 0	50 0 0
Girders, iron built, No. 31½' × 7" × 2" ...	Ratnagiri and Kolaba.	2			464 0 0
Lamp, Ditmar's patent Vienna Lightning No. 7870, 30" and 24" white lacquered tin shade with balance ball ...	Sátara ...	1	20 0 0		20 0 0
Lamps, hanging, glass, oil reservoirs 16" Cosmoss Burners clear storm globes and white lacquered tin shades ...	Do. ...	4	70 0 0		70 0 0
Pipes, cast-iron, 3" diameter R. feet ...	Ratnagiri and Kolaba.	603	395 0 0		395 0 0
Do. T. cast-iron, 3" on 2" ...	Do. ...	6	45 0 0		45 0 0
Do. bends, 4" diameter length 2½' No. 13, weight lbs. 793	} Do. ...	1,183 lbs.	63 0 0		63 0 0
Do. do. 5" do. length 2½' No. 5, weight ,, 318½					
Do. do. 5" do. length 2' No. 5, weight ,, 71½					
lbs. 1,183					
Do. iron, 4" diameter 9' long (turned and bored) ...	Ahmednagar..	3			6 4 0 (each).
Do. do. 3" do. do. do. do. ...	Do. ...	50			6 4 0 (each).
Do. with 11 bends. These are of leather:—					
No. Diameter of inside. Approximate length in R. ft. Thickness of metal.					
13 1" 170' 3/16"	} Khândesh Irrigation.	76	200 0 0	140 0 0	140 0 0
11 1½" 145' 3/16"					
52 1½" 530' ¼"					
The pipes are in pieces and varying in length from 3' to 16' and are all wrought iron with screwed ends, but the screw threads are most of them worn out and the connecting couplings are also worn out and wanting in some cases.					

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								Rs. a. p.	Rs. a. p.	Rs. a. p.
<i>Miscellaneous—concluded.</i>										
Detonators ...	...	...	...	...	...	Bijapur	587	15 6 6	15 0 0	15 0 0
Ribs for 15' centerings, 3 1/2' ft. rise	...	...	...	...	...	Sátara...	5	245 0 0	...	200 0 0
Do. 20' do. 4 1/2' do.	...	...	...	...	...	Do. ...	15	883 0 0	...	750 0 0
Do. 30' do. 8' do.	...	...	...	...	...	Do. ...	10	1,023 0 0	...	800 0 0
Do. 40' do. 9 1/2' do.	...	...	...	...	...	Do. ...	10	2,135 0 0	...	1,600 0 0
Do. 30' do. 6 1/2' do.	...	...	...	...	...	Dhárwár	5	...	...	375 0 0
Do. 25' do. 6' do.	...	...	...	...	...	Do. ...	10	...	...	650 0 0
Do. 20' do. 5' do.	...	...	...	...	...	Do. ...	10	...	...	400 0 0
Do. 15' do. 3' do.	...	...	...	...	...	Do. ...	5	...	...	100 0 0
Do. 10' do. 2' do.	...	...	...	...	...	Do. ...	5	...	...	50 0 0
<i>Teak planks (sound but in many cases have nails in them).</i>										
	No.	L.	B.	Thick-ness.	C. feet.					
Teak planks ...	12	10	6"	1 1/2"	8.75	Ratnágiri and Kolába.				
Do. ...	1	10	9"	1 1/2"	1.09					
Do. ...	1	12	5"	1 1/2"	0.72					
Do. ...	2	9	6"	1 1/2"	1.31					
Do. ...	1	11	8"	1 1/2"	1.07					
Do. ...	2	5	6"	1 1/2"	0.72					
Do. ...	1	7	8"	1 1/2"	0.68					
Do. ...	1	12	4"	1 1/2"	0.58					
Do. ...	1	11	7"	1 1/2"	0.93					
Do. ...	1	15	4"	1 1/2"	0.72					
Do. ...	1	8	4"	1 1/2"	0.39					
Do. ...	1	15	5"	1 1/2"	0.91					
Do. ...	1	17	9"	1 1/2"	1.85					
Do. ...	4	17	8"	1 1/2"	6.61					
Do. ...	2	19	5"	1 1/2"	2.30					
Do. ...	1	13	5"	1 1/2"	0.79					
Do. ...	1	16	8"	1 1/2"	1.55					
Do. ...	3	15	8"	1 1/2"	4.37					
Do. ...	1	13	9"	1 1/2"	1.42					
Do. ...	1	14	6"	1 1/2"	1.02					
Do. ...	1	18	8"	1 1/2"	1.75					
Do. ...	10	20	5"	1 1/2"	12.15					
Do. ...	31	20	8"	1 1/2"	60.28					
Do. ...	1	16	5"	1 1/2"	0.97					
Do. ...	26	20	6"	1 1/2"	37.91					
Do. ...	2	18	6"	1 1/2"	2.62					
Do. ...	35	20	7"	1 1/2"	59.55					
Do. ...	7	18	9"	1 1/2"	13.78					
Do. ...	2	15	9"	1 1/2"	3.28					
Do. ...	6	18	7"	1 1/2"	9.18					
Do. ...	9	19	9"	1 1/2"	18.70					
Do. ...	2	20	4"	1 1/2"	1.94					
Do. ...	17	20	9"	1 1/2"	37.19					
Do. ...	1	15	7"	1 1/2"	1.27					
Do. ...	3	10	7"	1 1/2"	2.55					
Do. ...	4	15	9"	1 1/2"	6.56					
Do. ...	1	16	8"	1 1/2"	1.55					
Do. ...	3	14	7"	1 1/2"	3.57					
Do. ...	2	19	6"	1 1/2"	2.77					
	315.35					Ratnágiri and Kolába.	315.35 c. ft.	842 14 6	448 10 6	394 4 0

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								Rs. a. p.	Rs. a. p.	Rs. a. p.
No.	L.	B.	Thick-ness.	C. feet.						
<i>Teak wood (sound but tarred and having bolt holes in it in places).</i>										
Girders ...	9	24'	9"	7"	94.50	Ratnágiri and Kolába.				
Do. ...	14	19'	9"	7"	116.37					
Rafters ...	20	24'	6"	4"	80.00					
Joists ...	3	11'	6"	4"	5.50					
Do. ...	5	9'	6"	4"	7.50					
Posts ...	2	5'	9"	9"	5.62					
Do. for railing..	22	2'	4"	2"	2.44					
Top pieces for railing	14	24'	7"	7"	114.33					
Struts for railing.	9	11'	7"	7"	33.69					
Do. ...	20	12'	7"	7"	81.67					
Do. ...	8	9'	7"	7"	24.50					
Blocks ...	10	4 1/2'	9"	9"	25.31	Ratnágiri and Kolába.				
Do. ...	13	2 1/2'	9"	9"	18.28					
					609.71					
					609.71 c. ft.			1,594 14 6	832 12 4	762 2 2

G. O. W. DUNN,
Under Secretary to Government.

To

The Public Works Department (Railway).
The Chief Engineer, C. D.
The Superintending Engineer, N. D.
The Superintending Engineer, S. D.
The Superintending Engineer, Indus Left Bank Division.
The Superintending Engineer, Indus Right Bank Division.
The Examiner of Public Works Accounts.

With spare copies for distribution.

No. 865 A. of 1895.

PUBLIC WORKS DEPARTMENT,
Bombay Castle, 14th June 1895.

To

THE Secretary to the Govt of Madras
P. W. Department
Cotacaim

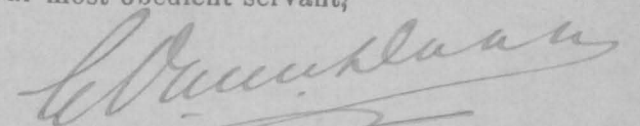
SIR,

With reference to Circular from the Government of India, No. XII. P. W.,
dated 17th August 1888, I am directed to forward herewith a list of Tools and
Plant available for transfer in the Public Works Department, Bombay Presidency,
for the half-year ending 31st March 1895.

I have the honor to be,

Sir,

Your most obedient servant,



Under Secretary to Government.

Accompaniment to this letter :—

15 Copies List of Tools and Plant.
Exd. R. W. L.

By B. P.

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P. W. CURRENT No. 5012

No. 27 63 Waf 6-9-88

Encls 1 (145.5. C)
Dec: 1.7.95

Dec 28/6/95

No. 1689 Waf 10 July 1895

B. J. J. J.
L. J. J. J.

Communicated
to the Suptg Engr of
the Dept. of
Cable.
Encls

8 Aug

Contd
5/55

1/8. V. C. Circle with 5-1000
Cable and branch

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Wm. L. J. J. J.
3/7 1897