

Mon

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8/10/68 29.9.50
S. S. Circle with 2 circles.
S. S. Circle with 2 circles
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Aug Sept - 9/10/68
R.S. 11/10
as 41-9 m : 25/9 0.1 x 88
m 3/6

The Estimate has been
considered by the
Dental Council and
approved
by Govt. in the
July: 1898.

C. J. P.

28/4/88

Note: The estimate
concerning
the Dental Council

C.

2/9

Public Works Department.

Current No. 9731
Letter No. 6456
Dated 24th September 1888
From the Secy. to Govt. Mily. Deptt.

Forward L.S.E. of Sanction
MON

NOTE OF REMARKS. 25.9.88

The estimate under
new amounting to
Rs 993 provides for
flooring ^{required} for working
the guns on the bastions
in the Agram Enclave.
ment at Bangalore.

The flooring will
consist of stone slabs
laid on 4" of concrete
and pointed with cement.

The V shaped drains
will be constructed
with stone slabs laid
on concrete & pointed
with cement.

Five stone slabs 3" in
thickness are also provided
probably required as
covering drains on returning
streets to keep up the Enclave.
The rates as far as
can be checked are given.

Arracks and Buildings.
Estimates.

No. 3141B

From

BRIGADIER-GENERAL M. PROTHEROE, C.B., C.S.I.

QUARTER MASTER GENERAL,

To

THE SECRETARY TO GOVERNMENT,

MILITARY DEPARTMENT.

SIR, With reference to para. 16 of Letter No. 104-01 dated 14th March last from General Officer
Commanding Bangalore Division recorded in P.G. No. 3671 dated 2nd June last,
I have the honor, by order, to forward for sanction and transfer to the Public

Works Department for disposal, the estimate, plan, &c., below-mentioned which
have been approved by the Commander-in-Chief. The plan and estimate have
been countersigned.

Estimate amounting to Rs 993-0-0 for providing stone
flooring for working the guns in the bastions and
for laying stone drains in the Agram Enclave, Bangalore, with a report and plan.

2. The Commander-in-Chief considers this to be
a work of an urgent nature, as the heavy guns
cannot be conveniently worked until the stone
platforms have been completed, and would
therefore wish that funds be provided for it
as soon as they can be made available.

I have the honor to be
Sir

your Obedient Servant
M. D. Thorne Brig. Genl.
Quarter Master General

W 3480C 13.9.88
B no 1924-25. 27.6.88
no 2089C 4.6.88

From
THE SUPERINTENDING ENGINEER,
V CIRCLE,

No 3155W of 8th October/88

To
THE Chief Engineer
P.W. Department.

B

Recorded
Recorded

1000
3.10.88

Dated 29th } September 1888.
Recd. 29th }

See
5/10/88

ENCLOSURES. /

No 3155W of 8th October/88

No. 2824.

Articles

note - The Govt of N.W.P.
& Oudh do not ask for
reply - but request that
if any of the articles are
required. the Govt
concerned may be advised.

States that none of the
available for transfer from
the Irrigation Department
of the North Western
Provinces & Oudh are
required by this Department.

10/10/88
10.10.88

10/10/88

with the order

Nos. 2067-21041. OF 1888.

GOVT., N.-W. P. AND OUDH,
PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

DATED ALLAHABAD, THE 22ND AUGUST, 1888.

To

*The Secretary to Govt
Madras P. & W. Dep^t*

SIR,

WITH reference to the orders contained in Government of India, Public Works Department, Circular No. XI, P. W., dated the 20th December, 1887, I am directed to forward herewith a printed list of surplus Materials and Tools and Plant in the Irrigation Department of these Provinces, available for transfer, and to request that if any of the articles therein mentioned are required, the Executive Engineer concerned may be addressed on the subject.

I have the honor to be,

SIR,

Your most obedient servant,

H. J. Bond
Assistant Secretary.

No 2067/1

4 spare copies

LIST OF SURPLUS MATERIALS AND TOOLS AND PLANT IN THE IRRIGATION DEPARTMENT OF THE NORTH-WESTERN PROVINCES
AND OUDH, AVAILABLE FOR TRANSFER.

Name.	Quantity or number available	Description or locality.	Condition.	Value.	Remarks.
1	2	3	4	5	6
NORTHERN DIVISION, GANGES CANAL (ROORKEE, ON OUDH AND ROHILKHAND RAILWAY).					
Jhams, country	2	Myapur	In good order.	Rs. 50	
Do., English	4	...	Two in good order, the third has tin pipes instead of C. I. ones.	200	
Roorkee hand-pumps	3	At Roorkee and Pattri	Good	180	
Charas mandal	11	Ditto	Do.	33	
Concrete skip, iron	1	Ditto	Do.	Not known.	
Sand boxes for centrings	119	Ditto	Do.	119	
Saws of sizes	4	Ditto	Do.	16	
Trucks for Delhi stone (wheels only)	4	Ditto	Do.	60	
Wheels for barrows	39	Ditto	Do.	390.	
ANUPSHAH DIVISION, GANGES CANAL (MEERUT) ON NORTH-WESTERN RAILWAY).					
Jhams, country	9	Jaoli	Serviceable	Rs. 81	
Mortar mill stones of red, Agra stone.	21	Sihani and Kinawa	In good order	240	
					No. Diameter. Thickness.
					2 3.2 1.8
					2 3.0 1.4
					1 2.9 1.2
					1 2.8 1.2
					2 2.8 1.1
					1 2.7 1.4
					2 2.7 1.3
					2 2.7 1.2
					1 2.6 1.3
					1 2.4 1.2
					1 2.3 1.8
					1 2.3 1.2
					1 2.0 1.5
					3 2.0 1.1

(2)

Stock.	Quantity or number available	Description or locality.	Condition.	Value.	Remarks.
Heavy cast iron girders, 22½' long,	2	At Walipura, mile 134 of Main Canal.	Very good condition	Rs. 836	
Clamps, iron	584	Ditto	578 in very good condition,	349	
Tools and Plant and Machinery.					
Country jhams	4	Ditto	In very good condition, at Rs. 2 each.	8	Weight 1½ seers each.
Roorkee hand pumps	3	Kot	In fair order, each Rs. 20,	60	
Gwynne's 8" pump	1	Dehra, mile 110	In good condition	150	
Iron tube syphons, diameter 1'-10",	Length 64 feet.	Ditto	Ditto	456	Piping 32 feet, 2 bends and foot valves ... 18 feet. 2 lengths 9 feet. 3 do. 4 " ... 12 " 1 do. 2 " ... 2 "
Roorkee hand pumps	2	At Walipura, mile 134 of Main Canal.	Without handles, each Rs. 15.	30	Total ... 32 "
NARORA DIVISION, LOWER GANGES CANAL (NARORA, viâ RAJGHAT, OUDH AND ROHILKHAND RAILWAY).					
Tools and Plant.					
Blocks, galvanized	4	Single, double and treble 7"	Serviceable	Rs. a. p. 14 0 0	per set.
Blades for box saw	6	11' long	Ditto	1 0 0	each.
Brick machines	2	For making compressed bricks.	Very little used	2,500 0 0	
Bullock gear	2 sets,	Driving gear for bullocks,	In good order	200 0 0	
Cupola for casting	1	Made at Narora	In good order	400 0 0	
Dredgers, Bull's 1½ cubic feet	33	1½ cubic feet	In good order	60 0 0	
Gauges, metre rail	9	Hand	Serviceable	2 0 0	
Jhams, country	33	Clayton's	Fair	8 0 0	
Pipe machine	1			350 0 0	

(3)

LIST OF SURPLUS MATERIALS AND TOOLS AND PLANT IN THE IRRIGATION DEPARTMENT OF THE NORTH-WESTERN PROVINCES AND OUDH, AVAILABLE FOR TRANSFER.

Name.	Quantity or number available.	Description or locality.	Condition.	Value.	Remarks.
1	2	3	4	5	6
NARORA DIVISION, LOWER GANGES CANAL (NARORA, via RAJGHAT, OUDH AGD BOHILKHAND RAILWAY)—concluded).					
Tools and Plant—(concluded).					
Pulleys for shafting 2½ feet	2	...	In good order	Rs. a. p.	15 0 0 per md.
Do. 2 feet	1	...	...	Not known.	Not known.
Pump, Woodfords centrifugal	2	...	...	100 0 0 each.	100 0 0 each.
Ditto sand	4	...	...	50 0 0 "	50 0 0 "
Ditto Roorkee	4	...	...	150 0 0	150 0 0
Skip concrete	1	...	...	Not known.	Not known.
Skip, Molesworth's	1	...	...	0 12 0 each.	0 12 0 each.
Trowels 11"	1,040	English	New	4 0 0 per md.	4 0 0 per md.
Do. 10"	518	...	...	5 0 0 "	5 0 0 "
Do. 9"	419	...	...	2 0 0 each.	2 0 0 each.
Wheels of trolley	13 pairs.	Old	Serviceable	0 8 0 "	0 8 0 "
Mortar mill fittings	5	Do.	Ditto	4 0 0 "	4 0 0 "
Do. do. stones	8	For stones	New	1 0 0 per c.ft.	1 0 0 per c.ft.
Clamp, iron	130	For pile bridge	...	0 12 0 "	0 12 0 "
Shoes for screw piles	48	Each piece average 10 cubic feet.	...	2 0 0 per md.	2 0 0 per md.
Stone, Delhi	297 c.ft.	2' x 1½', 2' x 2' 2", 3' x 4' x 9" deep.	...	3 8 0 each.	3 8 0 each.
Ditto, block rubble	398 "	For Gwynne's pump	...	15 0 0 per md.	15 0 0 per md.
Asphaltum	7 0 0	...	...		
Brass glands	10	...	...		
Oil, fish	Md. s. c. 0 27 8	...	...		

NADRAI AQUEDUCT DIVISION, NADRAI, via KASGANJ STATION, CAWNPORE AND ACHNEYRA BRANCH, B. B. AND C. I. RY.

Chain.

All for disposal is what is called "Best best crane chain."

¾ inch new 329 feet, @ Rs. 10 cwt.

„ used but in good order, 1,311 feet, at Rs. 8 cwt.

¾ inch new 212 feet, at Rs. 11 cwt.

„ used but in good order, 1,305 feet, at Rs. 9 cwt.

¾ inch new 36 feet, at Rs. 12 cwt.

„ used but in good order, 2,471 feet, at Rs. 10 cwt.

½ inch new 573 feet, at Rs. 13 cwt.

„ used but in good order, 1,007 feet, at Rs. 11 cwt.

The chain is in miscellaneous lengths, but can be joined up by links as strong as the original.

Charsas.

These are meant for use with steam-hoists on well-sinking. Being articles that will not keep, they are all set down at a very low value.

They were made by Messrs. Cooper, Allen, and Co., Cawnpore; are copper rivetted, and cost, when new, exclusive of iron work and flap doors, the larger ones Rs. 83-8 smaller Rs. 75.

Description.	No.	Total weight each.	Weight of leather only, each.	Condition and remarks.	Price, each.
		Md. s. c.	Md. s. c.		
Charsas, 4 feet diameter, 4½ feet deep, with flap doors, rings, and slings chains.	4	5 5 0	0 32 0	Good condition. The flap door of one requires slight repairs.	Rs. 75.
Charsas, 3 feet diameter, 4 feet deep, with flap doors, rings, and slings.	6	4 31 0	0 22 0	Same remarks	Rs. 65.
Charsas, 3 feet diameter, 4 feet deep, without flap doors, rings, or slings.	16	...	0 22 0	Quite new; never used	Rs. 35.

Hooks for chain.

These have been made by Messrs. Burn and Co., and have all been tested to double the weight here set down. They are all in good condition.

Hooks attached to about 18 feet of crane chain.

5 tons, 19, at Rs. 20 each.

3 tons, 16, at Rs. 15 „

2 tons, 18, at Rs. 10 „

1 ton, 3, at Rs. 5 „

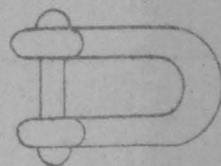
Hooks, new, without chain.

5 tons, 10, at Rs. 8.

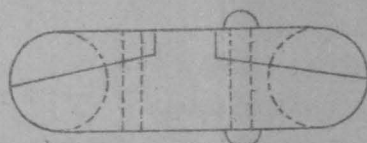
3 tons, 11, at Rs. 4.

Shackles for chain.

These are of Swedish iron, made by Messrs. Burn and Co. They are all either new or in good condition.

End shackles with pins.

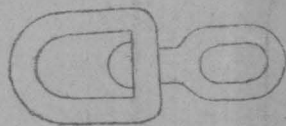
	Rs.	a.	p.
For $\frac{7}{8}$ " chain, 27, at 2 0 0 each.	2	0	0
" $\frac{3}{4}$ " " 50, at 1 8 0 "	1	8	0
" $\frac{3}{8}$ " " 38, at 1 0 0 "	1	0	0
" $\frac{1}{2}$ " " 41, at 0 8 0 "	0	8	0
" $\frac{3}{8}$ " " 44, at 0 6 0 "	0	6	0
" $\frac{1}{4}$ " " 14, at 0 4 0 "	0	4	0

Joining shackles, new.

For $\frac{7}{8}$ " chain, 17, at 12 annas each.	
" $\frac{3}{4}$ " " 24, at 8 " "	
" $\frac{1}{2}$ " " 24, at 6 " "	

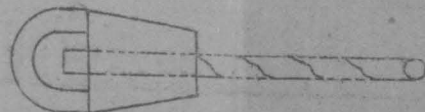
Swivel Links.

These are of Swedish iron, made by Messrs. Burn and Co.



For $\frac{1}{8}$ " chain, 17, at Rs. 7 each.	
" $\frac{5}{8}$ " " 19, at " 5 "	
" $\frac{1}{2}$ " " 48, at " 3 "	

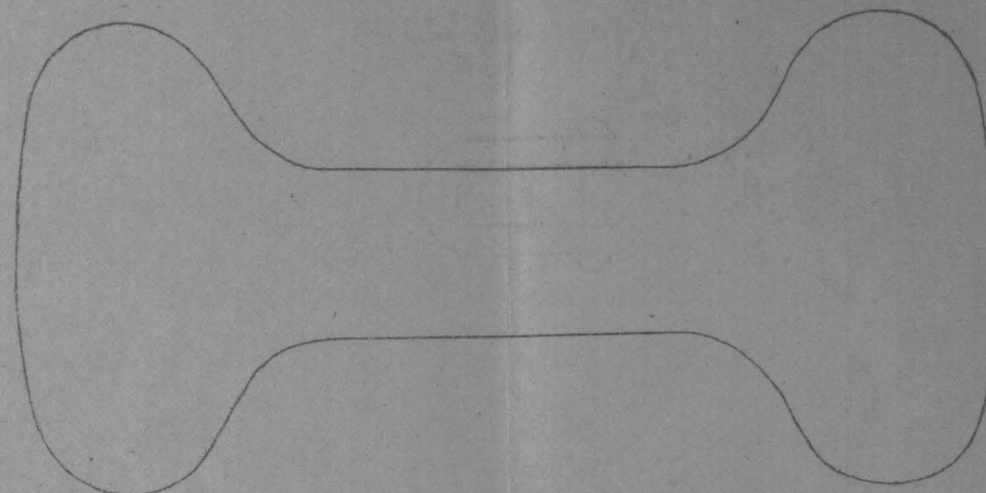
Shackles for wire rope.—Conical in shape, made by Messrs. Burn and Co., of Swedish iron, practically new.



For $3\frac{1}{4}$ inch wire rope, tested to ten tons, 34, at Rs. 7 each.
For $2\frac{1}{2}$ inch wire rope, tested to four tons, 24, at Rs. 5 each.

Rails, Scrap.

East Indian Railway pattern. Full size.



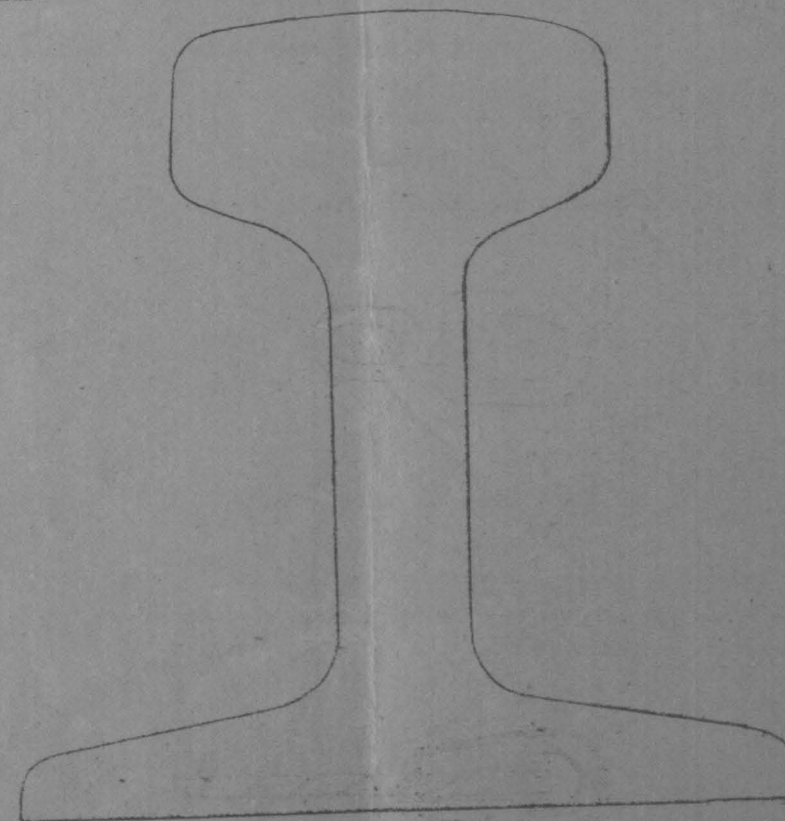
In 20 feet length, 80 to 82 lbs. per yard.

Class A, in good order, 4,700, at Rs. 7 each.

Class B, in fair order, suitable for temporary buildings or for telegraph lines, 1,244 ... at Rs. 5 each.

Rails, Scrap.

Oudh and Rohilkhand Railway pattern, 25 feet long, about 60 lbs. per yard. Full size, thus—



Class A, suitable for tramways, 2,730, at Rs. 10 each.

Class B, suitable for temporary buildings for loading or for telegraph lines 2,725 ... at Rs. 5 "

NADRAI AQUEDUCT DIVISION, LOWER GANGES CANAL—(continued).

Item.	Description.	Number.	Size of sheaf.	Size of rope.	Price, each.	Remarks.
	<i>Pulley Blocks, Ordinary.</i>				Rs. a. p.	
1	Single sheaf blocks, ordinary ...	32	5"	3½"	3 8 0	These are all rope blocks. They have been a good deal used, but are still in good condition. The maker's name is unknown. The single sheaf blocks were recently purchased from Messrs. Ahmuty and Co.
2	Ditto ditto, ...	7	7"	4½"	5 8 0	
3	Ditto ditto, ...	3	7"	5"	5 8 0	
4	Single sheaf, galvanized ...	1	6"	5"	9 0 0	
5	Ditto, snatch ...	2	7"	5"	6 0 0	
6	Ditto, ...	3	6"	3"	12 8 0	
7	Treble sheaf blocks, galvanized ...	1	7"	4"	14 0 0	
8	Ditto ditto, ...	1	7"	5"	9 0 0	
9	Double sheaf blocks, ordinary ...	3	5"	6"	5 8 0	
10	Ditto ditto, ...	1	6"	5"	7 0 0	
11	Ditto ditto, ...	1	5"	4"	5 0 0	
12	Ditto ditto, ...	3	5"	6"	8 0 0	
13	Treble sheaf blocks, ordinary ...	1	7"	6"	11 0 0	
14	Ditto ditto, ...	1	5"	4"	6 8 0	
15	Ditto ditto, ...					

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NADRAI AQUEDUCT DIVISION, LOWER GANGES CANAL—(continued).

Item.	Description.	Outside dimension in inches.	Size of sheaf.	Size of rope.	Number available.	Price, each.	Remarks.
	<i>Special Pulley Blocks for tackle.</i>					Rs.	
1	Treble block, with eye ...	46" × 20" × 13"	16"	10"	1	70	Purchased new from Benares Bridge works, very little used.
2	Ditto, ...	40" × 17" × 12½"	16	10"	1	70	
3	Ditto, ...	36" × 14" × 12"	12	7	1	20	Purchased from Kalpi Bridge works. In good condition.
4	Ditto, ...	24" × 12" × 10"	12	7	1	20	
5	Ditto, with hooks ...	36" × 13" × 10"	11"	7	1	20	Purchased from the Benares Bridge works, nearly new.
6	Double blocks, with eye ...	55" × 19" × 9"	14½	10"	1	45	
7	Ditto, ...	50" × 17" × 9"	10	10"	1	45	Purchased from Kalpi Bridge works, in fair condition.
8	Ditto, ...	26 × 14 × 7	12	7	2	20	
9	Single blocks, with eye ...	48 × 19 × 4½	16	10	1	40	Purchased from Kalpi Bridge works, in fair condition.
10	Ditto, with hook ...	26 × 12 × 3½	10	7	1	15	

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NADRAI AQUEDUCT DIVISION, LOWER GANGES CANAL—(continued).

Description.		No.	Size of sheaf.	Size of rope.	Price, each.	Condition and remarks.
PULLEY BLOCKS (SPECIAL) FOR WELL SINKING WORKS.					Rs. a. p.	
<i>All the pulleys on this list are put down at half cost price, excluding railway carriage.</i>						
1	Over head pulleys for bolting on to top horizontal beam (12" x 12") of gantries and used with 40 cubic feet dredgers, wheels fitted for 3½ inch wire rope.	12	24"	3½	125 0 0	Made by Messrs. Burn and Co., Howrah, from a special design by Mr. W. A. Francken; a highly successful pattern for well sinking work. In good condition. Never used.
2	Spare wheels for item No. 1, fitted for 3 inch chain	5	24"	...	25 0 0	Same remark as for item No. 1.
3	Bottom pulleys triangular shape, with hooks, power 10 tons. For use in changing the direction of rope at well in working a 40-cubic feet dredger.	14	24"	3½	135 0 0	
4	Spare wheels for item No. 3 for 3 inch chain	5	24"	...	25 0 0	Never used.
5	Top or bottom pulleys, 4 tons. For use with 25 cubic feet dredgers.	7	20"	2¾	40 0 0	Same remark as for item No. 1.
6	Spare wheels for item No. 5, for use with ¾ inch chain, Top or bottom pulleys 4 tons, for use with 10 cubic feet dredgers. Gin pattern.	4	20"	...	10 0 0	Never used.
7	Spare wheels for item No. 7, with spindles Bottom pulleys, used with 25 cubic feet dredgers 4 tons, Top pulleys, as used on the Balawali (Oudh and Rohilkhand Railway) bridge, with ring and eye-bolt to attach to top of gantry. Used with 25 cubic feet dredgers.	13	20"	2½	40 0 0	Same remark as for item No. 1.
8		15	20	...	20 0 0	Never used.
9		10	10"	2¾	25 0 0	
10						} Maker's name not known. Purchased from the Oudh and Rohilkhand Railway, and in fair condition.
	For wire rope	4	18"	2½	30 0 0	
	" ¾ inch chain	10	18"	...	30 0 0	
11	Spare parts—					
	For item No. 3 new steel spindles, size 13½ x 2½,	16	...	...	7 8 0	
	Wrought iron side links 18½ x 4½ x ¾	16	...	...	17 8 0	
	For item No. 5—					
	New steel spindles, 9½ x 1½	16	...	...	5 8 0	
	Wrought iron side links, 14½ x 3½ x ½	4	...	...	10 8 0	

Belting, American Cotton (new).

		Rs. a. p.	
9"	500 feet	2 0 0	a foot.
8"	2,000 feet	1 10 0	"
5"	1,000 feet	0 14 0	"
3"	800 feet	0 6 0	"
2"	500 feet	0 4 0	"

LIST OF SURPLUS MATERIALS AND TOOLS AND PLANT IN THE IRRIGATION DEPARTMENT OF THE NORTH-WESTERN PROVINCES
AND OUDH, AVAILABLE FOR TRANSFER.

Name.	Quantity or number available.	Description or locality.	Condition.	Value.	Remarks.
1	2	3	4	5	6
1st SUB-DIVISION.					
Pipes 3" ...	936	Bahosi and Amina bridges, ...	Good	Rs. 117	
Mile posts, earthen ...	42	At Aimah bridge ...	In good order	...	
Figured bricks ...	10,000	Various sites ...	Ditto	Not known. 574	
AGRA CANAL (MUTTRA, ON THE CAWNPORE-ACHNERA RAILWAY).					
Anvils, large ...	12	Ordinary blacksmiths anvils of different sizes.	In good order, but not required.	Rs. 250	
Crabs ...	13	Double and single purchase winches, Roorkee pattern.	Reparable; would cost Rs. 100 to put them in order.	500	
Pile Engine ...	1	This is about 24 feet high with a good staging on wheels, and a monkey weighing three maunds.	Narora pattern, in good order, but not required.	300	
Circular saw, 2' diameter	3	The saws are of the usual machine type.	In good order, but not required.	30	
Ditto bench	1	Small iron bench about 4 x 2 1/2 x 2.	Ditto	25	
ROHILKHAND CANALS, (BAREILLY, OUDH AND ROHILKHAND RAILWAY.)					
Bull's dredgers ...	2	Length Radius.	Good	...	60
Ditto ...	1	1' 1 1/2" 9 1/2"	Do.	...	30
Ditto ...	8	1' 7" 1'	Do.	...	240

(12)

BETWA CANAL, (ORAI, ON THE CAWNPORE-KALPI RAILWAY).					
	2,000 ft.	18' to 24' length	Good	0 5 6 1,031	
Rails of sizes ...	...	...	...	...	
Miscellaneous.	...	...	...	...	
Hartal (Borax) ...	mds. 6-1	...	...	10 0 0 61	
Barauza (turpentine) ...	1 md.	...	...	10 0 0 10	
Tools and plant.					
Leather belting, feet	686	Many widths	142' new 4" wide, the rest worn.	1 0 0 686	Rough.
Axes, English	17	English	Good order	3 0 0 51	
Do. country	61	Country	Ditto	1 8 0 92	
Mill fittings	5	...	Ditto	10 0 0 50	
Mortar mill stones	30	...	Ditto	11 0 0 330	
Crab, double purchase	1	Tangye Birmingham	Broken, been patched	285 0 0 285	
Do. single	1	...	Good order	125 0 0 125	
Crowbars...	61	Cawnpore made	Good	4 8 0 274	
Chains...	2,024	16" x 14" x 21" depth	Good	0 6 0 759	
Dredgers, Bull's	3	10H.P.	Serviceable	65 0 0 195	
Engine, portable	1	...	...	1,048 0 0 1,048	
Hammers of sorts	56	Cawnpore made	...	1 6 0 77	
Jumper, steel	200	Narora manufactured	All serviceable	7 8 0 1,500	
Jham, country	10	Cawnpore made	Good	8 0 0 80	
Kudals	56	...	Serviceable	5 0 0 28	
Lewis bolts	4	Richardson and Cruddas, Bombay.	5' pan, serviceable	371 0 0 371	
Mortar mill, steam	1	English and country	6' pan, serviceable	1,050 0 0 1,050	
Ditto ditto	1	English	Good	0 12 0 300	
Pick-axes	400	...	Serviceable	1 8 0 10	
Planes (carpenter)	7	...	Ditto	835 0 0 835	
Gwynne's centrifugal pump	1	Agra stone	Ditto	16 0 0 32	
Roller, stone	22	Roorkee made	Ditto	2 8 0 55	
Rammers, iron	76	English	Ditto	0 8 0 38	
Trowels ...	5	Wheels and axles 5'-6" gauges.	Good	45 0 0 225	
Weston's pulley blocks of sizes	40	...	Serviceable	1,830 6 0 732	
Wagon wheels, pairs ...	...	...	...	...	

(13)

J. G. FORBES, COLONEL, R.E.,
Chief Engineer.

ALAHABAD :
The 22nd August, 1888.

P. W. C. No. 9183
9862
1888

4.50.

R/12-9.88 12920u/su
27.9.88

Regd No. 584
14-9.88

No. 3480 C of 13th Sept. 1888

Referred to the
Supdy. Engineer V Circle
for remarks.

W. B. Baddley Capt R.E.
under Secy. to Govt P.W.D.

No. 2824

SUPERINTENDING ENGINEER'S OFFICE,

V CIRCLE, MADRAS,

Bangalore
Chapat, 29th September 1888.

From

Colonel H. M. Vibart R.E.

SUPERINTENDING ENGINEER,

V CIRCLE,

To

THE Chief Engineer
J. W. Deftt.

SIR,

Enclosures.

In returning your
endorsement No. 3480 C. dated 13th
September 1888 I have the honor
to state that none of the articles
available for transfer from the
Irrigation Department of the
North Western Provinces and
Oudh are required by this
Department.

I have the honor to be
Sir
your most obed^t servant

W. B. Baddley R.E.

Supdy Engineer
V Circle