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TAMIL NADU ARCHIVES

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P.W. DEPARTMENT

No.	914 - 915 W	Press.
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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

4th April 1881, No. 915 W.

General.
Account.

Read the following papers:—

No. 22. From Lieutenant-Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, First Circle, to the Chief Engineer, Public Works Department, dated Chepauk, 11th March 1881, No. 3,411.

With reference to G.O., No. 2,276 W., dated 1st October 1880, I have the honor to forward the Report of the Committee upon the superfluous stock in the Public Works Divisions.

2. The papers sent to me are returned, together with other documents that have been handed over for the Committee's consideration.

Report of the Committee appointed to investigate and report upon the Superfluous Stock in the hands of the Public Works Department, &c.

VIZAGAPATAM DIVISION, FIRST CIRCLE.—The value of articles on the stock register has already been reduced to Rs. 712, and out of this the value of asphalt is Rs. 593.

The Committee recommend that, as has been proposed by the Executive Engineer, the asphalt be charged at its book value to the Hill Jail works at Párvatipur. Upwards of 4 tons will be used there at a cost of Rs. 488, and there will remain in store a little over 1 ton to the book value of Rs. 105 to be charged to works hereafter as the supply may be used up.

2. In August last the Superintending Engineer directed the sale of articles of stock in the Ganjam District; these were small stores, metals, some wood and bamboos, painters' stores, and miscellaneous articles that had been lying by for some years and were useless, or not likely to be issued to works. The book value of the stock was Rs. 3,656-14-10, and the loss by auction sale has been Rs. 1,678-0-1. The various articles had been purchased on the stock account, not for any specific works; and the Committee recommend that the loss on the sale may be written off to Profit and Loss.

3. CUDDAPAH DIVISION.—In the Bellary District stock has been ordered to be sold to the value of Rs. 2,005-12-11; there remains only one item, Rs. 153-9-8, the value of fuze which is not wanted and is unsaleable at Bellary.

The Committee recommend that this fuze be sent to the Public Works Stores at Madras to be disposed of there.

4. In the former Anantapur Division there are wooden doors and windows that have been on hand for some time to the value of Rs. 2,621-4-4. The Superintending Engineer has kept these articles to see whether the Sub-Magistrate's Cutcherry at Bookapatnam will be sanctioned in the year 1881-82. Unless the stock can be transferred to this work, there is no prospect of the articles being turned to account; and the Committee recommend that, provided there is no entry in next year's budget for the Bookapatnam Cutcherry, the stock should be sold by auction.

5. In the Kurnool District stock to the value of Rs. 1,545-7-1 has been ordered to be sold; and the Committee recommend the further sale of wood-work prepared for a cutcherry to be built at Kurnool, as there is no likelihood of the articles being utilized for a long time to come. The book charges of these articles are Rs. 1,493-0-6, and there will remain only the sum of Rs. 151-8-5 on the stock register for the Kurnool District.

In the Cuddapah District there is no stock.

6. NELLORE DIVISION.—The value of stock in hand on the 30th September last was Rs. 3,567-13-6. The Executive Engineer has proposed to send to Madras some iron posts to be melted; they are called iron calingulah posts, and are valued at Rs. 807-7-3; but as calingulahs have been given up, the posts are of no use. There are graduated strips of papers meant to be pasted on levelling staves; these being obsolete, the Executive Engineer proposes to destroy them.

the book value is Rs. 6-4-9. There are two items, viz., glass tubes and steam gauges, Rs. 101-1-0, and leather belts, Rs. 45, which the Executive Engineer would transfer to another division, as there is no probability of their being used at Nellore.

The Committee recommend that these articles be sent down to the Public Works Stores at Madras for disposal excepting the useless paper scales.

The Superintending Engineer lately authorized the sale of articles entered as of the value of Rs. 2,263, but as yet those of the book value of Rs. 1,303 have been sold, leaving the sum of Rs. 960 to be cleared off. The value of stock will then become reduced to Rs. 1,648.

There are some tons of old and useless cast iron truck wheels at Nellore that have been charged to the Anicut works. Correspondence has been lately going on with a view to the Superintendent of the Workshop at Madras taking over the wheels as old iron.

7. The wood-work that has been sold in the Kurnool District was made up for a Taluk Cutcherry at Nandyál; the building has not otherwise been begun, but an estimate will shortly be submitted for sanction. The Committee recommend that the loss by sale of the materials that were made up ten years ago be charged to this future estimate.

The materials for barracks at Bellary were ordered to be prepared on the stock account in G.Os., Nos. 2,261 and 2,274, of the 24th and 25th September 1872; but further barrack accommodation has not been required, and is not likely to be called for, and no estimate has been made.

The other wood-work at Anantapur and Kurnool was made up in anticipation of outcheries being built, but the buildings have not been commenced, and there are no estimates framed for them.

The Committee therefore are of opinion that the loss by sale of these building materials and of the two useless items in the Nellore Division must be written off to Profit and Loss.

8. UPPER GODAVARI.—The Superintendent of Works sent with his letter, No. 2,120, of the 20th September 1880, three lists of articles of all kinds lying at Dumagudim. Mr. Walch proposed to keep there a certain quantity of machinery and stores; to sell a portion on the spot; and to remove the rest to Dowlaishweram. Mr. Walch proposes—

- (1.) To sell at Dumagudim, or to keep for transfer to any Public Works Division that may make application, the machinery not required for the works at Dumagudim; and to advertise the machinery for sale there, as it would not pay to send the machinery to Calcutta or elsewhere by sea.
- (2.) To keep at Dumagudim the survey and mathematical instruments that are wanted there; to send a few to Dowlaishweram and the rest to the Public Works Stores at Madras.
- (3.) To sell at Dumagudim two wooden flats that are in bad order; to keep the boats and punts that are wanted on the works; and to transfer one jolly boat to Dowlaishweram.
- (4.) To keep at Dumagudim one cart gun carriage; to sell the others; and to sell or transfer 200 tramway wheels.
- (5.) To sell a portion of the timber at Dumagudim; to keep there for use a small supply; and to remove the rest to the Dowlaishweram Workshop on the terms laid down in G.O., No. 3,153 W., of the 5th August 1878.
- (6.) To sell nearly all the metals at Dumagudim, keeping a reserve there, and sending a small supply to Dowlaishweram.
- (7.) To keep a portion of the small stores and miscellaneous articles at Dumagudim, and to sell the remainder there.

The Committee have referred to Mr. Walch for some further details of his intended distribution of the stores, and some slight modifications have been made. The result is shown in the enclosed abstract statement, which gives the number of items, with their value, to be kept and sold, in separate columns for Dumagudim and Dowlaishweram.

The Committee recommend that the Government property be disposed of as shown in this abstract, whereby articles of the book value of Rs. 52,713 will be sold as surplus or not in good condition; articles valued at Rs. 18,408 will be kept; those to the value of Rs. 12,747 at Dumagudim and of Rs. 5,661 transferred to Dowlaishweram. Of the stock, &c., kept in hand, there is machinery valued at Rs. 6,960 and timber valued at Rs. 5,790, so that the value of tools, floating stock, and other stores to be retained at Dumagudim will be brought down to Rs. 4,405.

The Committee are of opinion that the loss of sale of machinery, floating stock, rolling stock, and London stores should be charged to Works; and that the Superintendent of Works should specify the estimates to which the charges of loss shall be debited after ascertaining, as far as possible, for which specific works the different articles were purchased. The loss on the other stores cannot be much; the small stores, timber, and miscellaneous articles were obtained for general purposes; and the Committee recommend that the loss by sale be written off to "Profit and Loss."

This has been in a measure proved by the past history of the Workshops, and it would appear that 5 per cent. would be a more reasonable percentage charge to fix for depreciation charges, including cost of repairs on account of machinery. Prior to the year 1870-71 the charge for depreciation was written off at 10 per cent. The accounts show that since 1872-73, besides the depreciation charges, heavy and increasing amounts have been spent for repairs, and these have

write off at some future date. an unsafe procedure to admit, for the real facts will eventually force attention and compel a large profit is brought out, and hence the revenue is made to appear as great as possible; but it appears low depreciation charges, as thereby fewer calls are made upon the gross receipts before the net depreciation percentage. It is natural that those responsible for the Workshops should desire that the machines will be effectively used for the number of years represented by that small depreciation percentage. It appears to the Committee that this is too small a percentage to deduct, as it is improbable that the machines will be effectively used for the number of years represented by that small depreciation percentage.

Depreciation of machinery has been, since the year 1870-71, charged off at 2 per cent. under the marginally-noted orders.

and Loss account.
Rs. 19,546, he wishes to be written off to Profit
Rs. 67,213
Rs. 86,759
Total book value
Superintendent's estimate
Difference

29. The Superintendent represents that the value at which the machinery stands on the books is considerably in excess of the real value, and gives a comparative statement showing the book value and that at which he estimates the present value of each machine, the totals being as per margin. The difference, Rs. 19,546, he wishes to be written off to Profit and Loss account.

28. The articles proposed by the Superintendent to be retained, as being likely to be used within the next 18 months, consists chiefly of metals, fuel, tools, &c.; these retention may therefore be sanctioned, as may also, in the opinion of the Committee, the proposals in regard to the auction of stock valued at Rs. 9,121. No purchases of fresh stock should, however, be allowed, and materials required should be obtained on indent from the stores for specified jobs.

27. The Superintendent submits a list of stock belonging to the Workshops, the total book value of which is Rs. 1,43,513. He proposes the transfer to the Public Works Stores of articles to the value of Rs. 1,00,551-6-4, with a view to their sale eventually, and to the immediate relief to the Workshops of the interest charges. Rs. 33,540 worth of stock he proposes to retain, and other articles valued at Rs. 9,121-0-1 he suggests should be sold by auction. Of the articles proposed for transfer to the Stores the Committee are of opinion that those as per margin should be sold and not retained, as being likely to realize more than if kept for an indefinite period. The principle involved in the transfer of manufactured goods and other stores from the Workshops to the Public Works Stores should not, the Committee are of opinion, be as a rule permitted, inasmuch as it would tend to encourage over-manufacture of articles not are of short of work, so as to keep them going and to place the Workshops on a satisfactory footing when the reverse is the case. As the object of the present proposals is, once for all, to endeavour to place the Workshops on a satisfactory footing by relieving them of all charges not properly belonging to them, the Committee recommend that very special case, be sanctioned, the same steps being taken for their early disposal as have been recommended for the other Public Works Stores.

26. The stock expenditure during the period from October 1879 to 30th September 1880 is shown to be Rs. 5,544, chiefly under "Building Materials" and "Miscellaneous."

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21. The stock expenditure during the period from October 1879 to 30th September 1880 is shown to be Rs. 5,544, chiefly under "Building Materials" and "Miscellaneous."

The average value of issues during the last three years has been—

	Rs.
Stores	28,498
Timber	18,260
Manufactured Articles	11,527
Total	58,285

The Superintendent of Works also states that there is no unnecessary stock in hand. But the above figures show that while the manufactured articles have been brought down to less than a half year's issues, there are still stores to last for 18 months and timber for 14 months.

The Committee are of opinion that endeavours should be made to keep the value of stores in hand within Rs. 30,000.

12. GODAVARI WESTERN DIVISION.—The stock return shows only some building materials the value of which is less than Rs. 1,000.

13. GODAVARI EASTERN DIVISION.—The stock in hand on the 30th September 1880 consisted of—

	RS.	A.	P.
Materials at Dowlaiswaram valued at	10,971	9	7
Stores at Dumagudiem	38,529	5	1
Stores kept at the Sappers' Cantonment	13,563	14	7
Total	63,064	13	3

The total amount standing in the Examiner's books to the debit of the division is Rs. 94,565-11-7, and the Executive Engineer explains that the difference of Rs. 31,500-14-4 is the amount of stock manufacture and carriage which has not been included in the stock register. The stores at Dumagudiem have been dealt with under the head of Upper Godavari, and deducting their value from the total debit, there remains the sum of Rs. 56,036-6-6 as the book value of the stock in hand. The stores in the Sappers' Cantonment consist chiefly of metals valued at upwards of Rs. 11,000, while the value of small stores is Rs. 2,185. The Committee consider that, whereas there are large stores in the Workshop close by, these items are not necessary, and that the manufactured articles of the value of Rs. 31,500 are much beyond the requirements. The issues in the past year have been to the value of Rs. 34,618, and while there appears to be the need of keeping in hand a considerable supply of stone and other materials at Dowlaiswaram, the Committee think that the value of stock in hand ought to be brought down to Rs. 20,000. The large balance under the head of Manufactured Articles may be reduced by suspending further manufacture until the reserve limit is attained.

14. KISTNA WESTERN DIVISION.—There is no stock.

KISTNA EASTERN DIVISION.—The stores of the Kistna Workshop have recently been amalgamated with those of the Eastern Division. The Executive Engineer reports that the stock in hand on the 30th September 1880 was of the value of

Rs. 58,695	0	0
" 19,940	0	0
Total ...	Rs. 78,635	0 0

The Superintendent of Works has stated that he thinks there should be a maximum reserve of about Rs. 48,000 arrived at thus:—

	Rs.
Small Stores	1,000
Building Materials	5,000
Timber	20,000
Metals	9,500
Miscellaneous	4,500
Manufacture in Workshop and Quarries and Kilns	8,000
Total	48,000

The average value of issues during two years is given by the Superintendent of Works as Rs. 5,046 per month, while the value of the balance of stock on the 1st October 1880 was Rs. 58,695, or nearly twelve months' supply. But while the stock balance in hand of some items is moderate, in others it is very high; thus there is a supply of small stores for eighteen months—

Timber	21-6
Metal	28-4
Painters' Stores	21-2

As the articles enumerated under Classes I and II will be required for works, the Committee are of opinion that the whole value should be charged off to these works, provision being made in the estimates for the exceptionally high charges by entering slightly increased rates. As it appears that the articles in Class III will not probably be required for works, the Committee recommend that they may be disposed of as the Executive Engineer proposes and the loss debited to Profit and Loss.

I. By debit to Works	...
II. By debit to Works and Profit and Loss	...
III. By debit to Profit and Loss	...
Rs.	112
...	362
...	382

On the stock he proposes to sell the Executive Engineer estimates the loss will be about Rs. 1,050, which he proposes to distribute as follows:—

The kilns should be written off the books by debit to the works for which they were originally constructed. The accounts of these have long since been closed, and as the Executive Engineer reports that the kilns are practically useless, the Committee recommend that if a purchaser can be found, they may be sold and the loss debited to Profit and Loss. In any case the kilns should be written off the stock accounts.

25. WEST COAST.—The stock balance of the division on the 30th September 1880 was Rs. 13,656, of which Rs. 1,466 is for "manufacture and carriage." The Executive Engineer proposes to sell the lime kilns with sheds at Wellington and Ootacamund, and also stock to the value of about Rs. 2,300. The remainder to be retained, as being likely to be required for works within the next 18 months.

Under these circumstances, the Committee consider that, as it would not repay the labor Architect to charge off the correct percentage rate to all the issues, it may, as a special case, be considered permissible to charge off the lump sum of Rs. 20,000 as originally proposed, the Consulting Architect being given to understand that he will be held personally responsible that he does not again allow such an accumulation of debits to arise without making the necessary adjustments month by month to the credit of his manufacture account.

Mr. Chisholm states that with General Walker's concurrence in 1875 a sum of Rs. 20,000 was entered in the estimates for the Post Office and Telegraph Office as a fair sum to charge off in return for the benefit those buildings would derive from the kiln. From the accounts it appears that nothing has yet been charged.

It is reported that the actual debit to the kiln will be reduced at the end of the year to Rs. 24,000, but that the whole sum on account of the brickfield remaining unadjusted will come up to Rs. 83,000. The kiln was constructed in the year 1873, and had the proper procedure of charging a fair percentage to all output and crediting it to the brickfield been followed, this large sum would not have remained to be adjusted at this late period.

Total ... 42,743

Rs.

26,454

5,388

3,580

4,271

3,041

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The Superintendent of Works proposes to retain stock articles to the value of Rs. 43,468, to be used up within the next eighteen months, and to dispose of articles to the value of Rs. 15,227. The Executive Engineer's list, dated the 24th December 1880, shows the proposed method of dealing with stock, viz., some items to be sold locally at Bezvada and other items to be sent either to Dowlaiswaram or to Madras.

As there are already more stores than are wanted at Dowlaiswaram, the Committee are of opinion that the superfluous stock at Bezvada should be sent to Madras to the Public Works Stores for disposal. The enclosed list shows that the book value of these stores is Rs. 13,488-10-7.

The same list shows various articles which may be sold at Bezvada, their book value being Rs. 1,738-14-10. These stores have all been purchased on the General Stock Account, and thus the loss by sale will have to be charged to Profit and Loss.

15. The Executive Engineer has furnished another list, enclosed, dated the 7th January 1881, of machinery and tools and plant that are not required in the division. The list contains twelve items that may be sold on the spot; twenty-two items that cannot be disposed of locally; and two items of wagons, of which a part can be kept and the rest should be sent away.

The Superintendent of Works recommends that the old cast iron articles should be sent to Dowlaiswaram for the foundry. There are old machines, blocks, log wheels, &c., which will not be used where they are, and are not likely to be sold there.

A good deal in the way of superfluous machinery and plant is proposed to be offered for sale in the Godavari District; and the Committee think that it will be preferable to send the stores by canal to Madras, to be disposed of by the General Superintendent of Public Works Stores.

The items in this list have already been charged to Works, and the sale proceeds will be credited to the sources from which payment was originally made; if from Revenue, credit will be given to Tools and Plant; and if from Capital, to Receipts on Capital Account.

16. On the subject of the stock reserve the Superintendent of Works writes that, though there are no local markets; that when required a year's supply would have to be bought at Cocanada or Ceringa, and it might happen that the annual supply could not be got round before the closing of the canals in March. A good stock of large timber is required for heavy works, such as lock gates, and inconvenience will occur if the stock is kept too low.

Upon this explanation the Committee are of opinion that a liberal margin may be necessary in calculating the limit of the general reserve stock; but they still think that this should not be set down at a higher figure than Rs. 20,000.

List of Surplus Stock not required in the Kistna Eastern Delta.
To be sent to Public Works Stores.

		Book Value.	
		RS.	A. P.
Plumbago	...		
Angle iron of sizes	...		
Crane bearings, cast iron	...		
Flat bar iron	...		
Sheet iron	...		
Crucibles, large	...		
Stoney's valve	...		
	lb.	979	195 14 6
	"	33,962	3,450 0 0
	"	797	
	"	21,613	1,447 0 5
	lb.	64,129	6,901 12 6
	No.	100	70 11 3
	"	1	1,423 3 11
			13,488 10 7

		Book Value.	
		RS.	A. P.
Yapoo wood	...		
Railway old iron	...		
Lead sheets	...		
Sundry iron	...		
Copper, old	...		
Gun metal	...		
Three items of paint	...		
Oxide of lead and yellow clay	...		
Wooden gates	...		
Leather, Madras and Europe	...		
Camp stools and canvas, do.	...		
Small board	...		
	c.ft.	360	155 7 2
	lb.	1,484	189 0 1
	"	1,763	330 1 4
	"	60	52 5 4
	"	162	22 3 4
	"	515	70 14 0
	"		91 4 11
	"		27 14 6
	lb.	350	4 13 10
	No.	18	404 7 3
			25 13 2
			0 7 9

To be sold at Bezvada.

Spurs	...	No.	2	4 10 7
Iron cot	...	"	1	18 15 4
Copper plate	...	"	1	13 7 1
Water tubs on wheels	...	"	5	7 8 0
Venetian windows	...	"	14	241 0 0
Bandy wheel	...	"	1	23 0 0
Semi-circular windows	...	"	3	36 0 0
Wooden leg	...	"	1	6 3 6
Salvages	...	"	17	11 6 4
Telegraph wire	...	"	36	1 15 4
				1,738 14 10

List of Machinery and Tools and Plant no longer required in the Kistna Eastern Division.

Class.	Item No.	Names of Articles.	Balance.	Remarks.
Machinery.	42	Machine, stone-breaking	3	Cannot be sold or disposed of locally.
	50	Pump, portable, double	1	Do. do.
	...	Machine, brick-making, with pug mill.	1	Do. do.
	...	Machine, hulling, with under-shot water wheel and pieces.	1	Do. do.
	...	Air engine	1	This is believed to be an air engine, but it is not known why or when it came here, and it cannot be disposed of here.
	...	Axle with one wheel	1	Might be auctioned here.
	...	Do. with Calcutta wheels	109	These are flanged wheels for trucks.
	...	Do. Dowlaiswaram with wheels	1	Do. do.
	...	Do. do. wheels	107	Do. do.
	...	Barrow wheels	12	Might be auctioned here.
Tools and Plant.	...	Bed keys	2	For screwing up wooden beds.
	...	Barrels, iron, empty	34	These are really old paint kegs, and should not appear in the tools return. They might be disposed of here or kept for sending out tar, &c.
	...	Bill crank for old wooden pump	1	Might be sold here.
	...	Brick moulds, brass, solid	5	Do.
	...	Do. do. bind	19	Do.
	...	Blocks, iron, quadruple, 12 inch	2	Could not be disposed of here.
	...	Do. do. 10 "	2	Do. do.
	...	Do. do. 9 "	2	Do. do.
	...	Cranks	2	Might be sold at Bezvada. Of old hand paddle boat.
	...	Calcutta wagon wheels	4	Cannot be disposed of here.
	...	Cog wheels of sorts	31	Do. do.
	...	Dog wheels	16	Cannot be disposed of here. Wrongly named; are really Pawl wheels
	...	Dog iron	23	Might be sold here.
	...	Dressed Pegu teakwood logs	1	Do.
	...	Pinions for crane	32	Do.
	...	Pullies, crane	7	Do.
	...	Paddle wheel crank	1	Do.
	...	Wagons, complete	12	Five to be kept.
	...	Do. wheel, pairs	40	Cannot be disposed of here.
	...	Do. side tip, with fittings	16	Four to be kept.
	...	Wheels, large, for Dowlaiswaram crane.	8	Do.
	...	Do. for crane	8	Do.
	...	Do. iron wagons, pairs	8	Do.
	...	Do. large, Calcutta, axle	1	Do.
	...	Wooden wheel, old	1	Do.
	...	Old boiler (not in lists)	1	Might be sold here being useless.

BEZVADA,
7th January 1881.

(Signed) J. D. GRANT,
Executive Engineer, Eastern Division.

17. COIMBATORE DIVISION.—The stock balance at the close of September 1880 was only Rs. 779-11-9, of which the Executive Engineer proposes to retain all except two items valued at Rs. 32-4-0. He reports all can be used; the Committee therefore propose to accept his proposals, and recommend that the small unserviceable balance should be met by increase of rates on the remaining items.

18. PRESIDENCY DIVISION.—The stock balance in this division on the 30th September 1880 amounted to Rs. 2,063, of which the Superintendent of Works proposes to sell about 900 rupees worth, consisting chiefly of made-up doors and windows. It is clearly impossible to adjust this loss by increase of rates on the remaining articles of stock. The doors and windows were obtained for works the accounts of which are not yet closed; the Committee therefore recommend being covered by supplemental sanction, if necessary.

There is an item of 446 granite stones at Madras valued at Rs. 213-11-4. These stones have been on hand for some time; they are of no real value, but were brought away from old native buildings. The Superintendent of the Government Museum would be glad to take them over free of cost, and he would make use of the stones as posts about the Museum grounds.

The Committee recommend that the Superintendent of Works may be authorised to hand over the stones to the Superintendent of the Museum.

19. CHINGLEPUT DIVISION.—The stock balance on the 30th September 1880 was Rs. 4,332, of which Rs. 1,414-7-9 stand against an equilibrium valve which is stated to be in position at the Red Hills.

In regard to the rest, the Executive Engineer proposes to sell iron valued at Rs. 41-8-0 and worth, according to his estimate, only Rs. 10. Some granite stone, the book value of which is Rs. 1,614, the Executive Engineer considers not really worth more than Rs. 325. There is also gunpowder valued at Rs. 241, which it is stated is not required in the division.

The Committee recommend the following adjustments:—

- (1.) The equilibrium valve should be charged to the work to which it was issued and on which it stands.
- (2.) The loss incurred by the sale of the iron and granite stones to be debited to Profit and Loss, as the accounts of the works for which they were obtained have long since been closed.
- (3.) The powder should be transferred to the Ordnance Department for deposit and issue when wanted by other parties.

20. MADRAS HARBOUR WORKS.—The stock balance on the 30th September 1880 stood at Rs. 1,88,048-3-5. The statement submitted contains proposals regarding items the book value of which is only Rs. 16,130. No returns have been received from the Superintendent for two years, showing what stock and tools and plant he actually has on hand; and until these are furnished the question cannot be dealt with. The Committee are consequently unable to make any recommendations. The subject is of the less importance, as the Madras Harbour Works will cease to exist as a division in another year, and all accounts connected with them will be finally closed.

21. NORTH ARCOT.—In this division there is practically no stock, the only article, valued Rs. 64-14-0, on hand being a rope. An early opportunity should be taken to charge this off to the work on which it may be required, and if such is not likely to occur, it should be sent to the Public Works Stores for disposal.

22. PRESIDENCY STORES.—The balance on hand on the 30th September 1880 was valued at Rs. 4,04,236-10-6. The Superintendent has submitted a list of the stores in stock divided into four classes:—

- A. Articles not likely to be used within 18 months.
- B. Articles which he considers should be kept in stock.
- C. Articles the outright sale of which is recommended.
- D. Stores received from district officers which can be repaired and kept for issue when indented for.

In regard to Class A, the Superintendent estimates that the sale of these articles by auction, or by tender, would probably involve a loss of about Rs. 98,000. Judging by past demands from the Railway Companies and the public generally for similar stores, he considers that if the extra percentages as per margin at present charged to other than public departments were removed, and the stores for sale extensively advertised, purchasers would be found. As the outright sale of these stores will undoubtedly involve heavy loss, and they are of exceptionally good quality, the Committee are of opinion that, before the outright sale is ordered, the proposals of the Superintendent should be tried for some time.

Instruments 15 per cent.
Machinery 17 "
Tools and plant 20 per cent.
Stock 22 per cent.

Stores	Timber	Manufactured Articles	Total
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
43,450 3 8	21,311 11 9	4,742 5 3	69,504 0 0

11. DOWLAISHWARNA WORKSHOP.—The Executive Engineer in charge of the Workshop to the Revenue Account, Tools and Plant, Productive Public Works, Godavari Delta. The Prince was originally charged to general plant, and the sale proceeds will be credited hands of the Marine Department.

Department in February 1877, and her maintenance was made chargeable to Port Funds, the she be sold at an early opportunity. Again, as the vessel was ordered to be sold by the Marine Department; and as she was condemned nearly four years ago, the Committee recommend that the Committee believe that the Prince is no longer required at Rajahmundry by the Military authorities.

beyond carrying out some repairs and supplying some fuel at the request of the Military Department in 1879, the Public Works Department having nothing to do with her December 1876, and that she was by the Marine Department placed at the disposal of the Department. The Superintendent of Works, Godavari, states in his letter, No. 1,997, of the 20th of the Marine Department; and that she is employed under the orders of the Public Works On the 2nd September 1880 the Master Attendant wrote to the Chief Secretary that the whose account they are incurred.

No. 2,742, of the 24th October 1879, that "the Prince is maintained from Port Funds," but all special additional charges, i.e., not ordinary charges, are to be debited to the department on dance of charges connected with the Prince, it was laid down in G.O., Judicial Department, telegram for use at Rajahmundry. On a question raised by the Accountant-General as to the in- Department in G.O., Public Works Department, No. 1,396, of the 8th August 1879, a has not been effected, and in G.O., Judicial Department, No. 587, of the 22nd February 1877, a Department in G.O., Public Works Department, No. 587, of the 22nd February 1877, a Public Works, Godavari Delta.

The cost of the Little Nell has been charged to general plant of the Godavari Eastern Delta, and the sale proceeds are to be credited to the Revenue Account, Tools and Plant, Productive Account. The cost of the Little Nell has been charged to general plant of the Godavari Eastern Delta, and the sale proceeds are to be credited to the Revenue Account, Tools and Plant, Productive Account. The cost of the Little Nell has been charged to general plant of the Godavari Eastern Delta, and the sale proceeds are to be credited to the Revenue Account, Tools and Plant, Productive Account.

A list of the floating plant in the Godavari District is sent up annually to the Chief Engineer for Irrigation, in order that provision may be made in the budget; and the Committee have no further remarks to make on this head.

Range Boat No. 5 has already been sold, and Range Boats Nos. 9 and 10 are to be sold shortly. The rest of the floating plant is said not to be in excess of requirements or in unserviceable condition.

No. 97 Iron Flat is stated to be too unwieldy for general use; but it is explained that the her being brought into use again. No. 12 Iron Trap Pump is entered as sunk in a main canal. Enquiries having been made why an annual maintenance is proposed, and the duty shown to be that of conveying silt, it is explained that attempts will be made to raise the punt when the canal is closed with a view to No. 12 Iron Trap Pump is entered as sunk in a main canal. Enquiries having been made why an annual maintenance is proposed, and the duty shown to be that of conveying silt, it is explained that attempts will be made to raise the punt when the canal is closed with a view to

"Little Nell."—These two steamers are to be advertised for sale by the Superintendent of Works. "Little Nell."—These two steamers are to be advertised for sale by the Superintendent of Works. "Little Nell."—These two steamers are to be advertised for sale by the Superintendent of Works.

9. GODAVARI—IRRIGATION—FLOATING PLANT.—The Committee have examined the statement of floating plant to be maintained in the year 1881-82 as printed in G.O., No. 550 I, dated 26th August 1880. "Little Nell."—The machinery of this steamer is entered as old and worn; but the Superintendent of Works states that the machinery is repairable, and the boat useful; he recommends that she should not be sold.

9/14/25

* Does not include Item No. 2 of Profit and Loss account, materials on account of repairs to tools, machinery, shops and petty working charges.

(Debited to general charges instead of to Tools and Plant, see Table G.)

Depreciation charges written off	...	...	...	...	...	31,597
Amount written off on Mr. Grainger's report	...	...	...	...	...	26,574
Value sold	...	...	...	...	...	524

Balance

Had the 5 per cent. depreciation charge ruled during the whole time, the deductions would have been as follows:—

ES.
11 573

Depreciation charges written off	...	...	...	...	26,574	
Write off on Mr. Grainger's report	...	...	...	...	5,659	20,915
Less	...	...	...	...		524
Value sold	...	...	...	...		66,012

UPPER GODAVARI

* The value of the 11 items is Rs. 11,258. The Superintendent of Works desires to retain metal to the value of Rs. 500 out of the above.

A. Stock Account Current.				Cr.
Dr.	RS.		RS.	
To Balance ...	...	By Issue to Mechanical Department.	...	
Value received from Public Works Stores ...	...	Do. Instrument do.	...	
Value received from Commissariat Department ...	...	Do. General do.	...	
		Do. Foundry do.	...	
Total ...	...	Balance ...	...	
		Total ...	...	

B. Account of Adjustment.				Cr.
Dr.	RS.		RS.	
To work done by arsenal ...	...	By debit to Mechanical Department.	...	
		General charges ...	...	
Total ...	...	Total ...	...	

C. Detail Statement of General Charges for the month of				
Particulars.	Cash.	Stock.	Adjustment.	Remarks.
	RS.	RS.	RS.	
General supervision ...	...	...	...	
Office establishment ...	...	...	...	
Engine Driver ...	...	...	...	
Fireman ...	...	...	...	
Coolies ...	...	...	...	
Coal ...	...	...	...	
Charcoal ...	...	...	...	
Other materials ...	...	...	...	
Work done by other Department.	...	...	...	
Total ...	...	...	...	

D.
Statement of Debits and Credits to the Items making up the Capital of the Workshop for the month of

Particulars.	Balance at the end of last Month.	Debits during the Month.	Total.	Credits during the Month.	Balance at the end of Month.	Remarks.
Block ...	...	...	...	...	...	
Machinery ...	...	...	...	...	...	
Raw materials ...	...	...	...	...	...	
Manufacture ...	...	...	...	...	...	
Mechanical Department	...	...	...	...	...	
Instrument do.	...	...	...	...	...	
Foundry ...	...	...	...	...	...	
Public Department ...	...	...	...	...	...	
Sales ...	...	...	...	...	...	
Cash ...	...	...	...	...	...	

E.
Statement of Percentages charged up to

Department.	Amount.	Remarks.
	RS.	
Mechanical Department ...	...	
Instrument do. ...	...	
Foundry ...	...	
Raw materials ...	...	

F. Statement of surrender and demands up to the month of				Cr.
Dr.	RS.		RS.	
To Cash paid into Treasury ...	...	By Letters of Credit ...	...	
Adjustment by transfer ...	...	Stores received from Public Department ...	...	
		Interest on Capital ...	...	
		Leave and Pension allowances ...	...	
		Net Profit ...	...	
		Decrease of Capital ...	...	
Total ...	...	Total ...	...	

34. BUCKINGHAM CANAL.—The Superintendent of Works was desired by the Government to reconsider his proposal to bring materials valued at Rs. 11,436 on the Stock Account, and he states in his letter to the Committee of the 4th December that the Government have sanctioned the retention of materials to the value of Rs. 9,375, the remainder to be disposed of by sale.

The Superintendent of Works has informed the Committee that he has six small boats and two spoil boats that are unfit for further use; that he has scientific instruments in excess of normal requirements but that are wanted at present by survey parties, and that there are surplus tools, viz., 1,279 pickaxes, 476 crowbars, 8,803 mamooties, and sundry other minor items, as also some furniture which are available for transfer or sale.

The Committee recommend that the eight unserviceable boats be sold off, and are of opinion that the Superintendent of Works should return the tools he does not require to the Public Works Stores for disposal and sell off the surplus furniture. The value of the boats has been already charged to the works, and the sale proceeds will be credited in the canal accounts; otherwise the Superintendent shows in his returns that he has no stock on hand.

35. GAS WORKS, FORT ST. GEORGE.—The Superintendent states that the greater part of the materials on his list,* dated the 4th March last, are required for the present gas works, but that there are a good many brass materials under the last head in the list that are old and useless; these are marked c.

There is also a large quantity of stores that have been in the charge of the Public Works Department, and of the articles entered in the other list,† dated the 28th October 1880, a few only marked a and b are wanted for the present gas works. The remaining large proportion of the stores is not likely to be used, unless the extension of the gas works be sanctioned, in which event all the articles marked c would be required.

Doctor Rogers considers that these latter stores marked c would be sold locally at a great loss, and he believes it would be worthwhile to send the brass fittings, &c., to England, if they are not to be kept. The Committee recommend that the Superintendent of the Gas Works be authorised to sell off the unserviceable articles marked c on his list of the 4th March 1880.

The whole of the gas works stores have been charged to the works and none are brought on to stock account.

36. The Committee are unable to judge whether the extension of the gas works is likely to be carried out, or if the stores marked c on the list of 28th October are to be considered as surplus and an incumbrance. These stores are kept by the Superintendent of Works, who says they do not in reality give him any trouble, as they are locked up in a separate store room.

and the balance value of the machinery would have been Rs. 1,11,078 instead of Rs. 1,18,895; the Committee would therefore recommend the write off against Government of the difference, viz., Rs. 7,317, instead of Rs. 19,546 as suggested by the Superintendent of Workshops.

30. The Superintendent further proposes a reduction of the debit to Capital on account of "Block" by revaluation of the buildings, or by a larger share of the charge thereof being transferred to stores.

The workshops utilize the greater part of the buildings, hence the transfer to stores of a large proportion of the charge for them appears to the Committee inadmissible; and in regard to the revaluation it has to be borne in mind that the original arrangements were made, estimated for and carried out by Mr. Grainger, and that additions have since been made which should not have been the case if the premises were already too extensive; any relief therefore under this head cannot, the Committee think, be justly recommended.

31. In order to make the workshops pay it appears that more than a relief from charges on account of interest and depreciation is necessary, and is to be attained only by the most careful scrutiny of all the arrangements and check over unnecessary expenditure, more especially in connection with the general expenses consisting of general departmental supervision, office establishment, labor and material on general account, and repairs to machinery. The charges for general departmental supervision are as follow:—

- 1.—Moiety of pay and allowances of the General Superintendent.
2. Full pay and allowances of the Sub-Engineer.

The total of both amounting to Rs. 710 per mensem.

3. The additional establishment detailed below, of which particulars are given for the last ten years.

Statement showing the state of Departmental Supervision for ten years.

	1871-72.	1872-73.	1873-74.	1874-75.	1875-76.	1876-77.	1877-78.	1878-79.	1879-80.	1880-81.	Remarks.
1 Smith Maistry.	40	40	40	40	40	40	50	50	35	45	
1 Do. ...	..	..	..	..	..	..	..	..	..	..	
1 Carpenters' Foreman.	..	..	..	..	..	..	..	..	..	..	
1 Do. Maistry.	Day 1	12	12	12	12	12	12	12	12	12	
1 Turner Maistry.	30	30	30	30	30	30	30	30	30	30	
1 Do. do.	..	..	..	..	..	..	..	..	..	..	
1 Filer Maistry.	..	..	..	..	..	..	..	..	..	..	
1 Do. ...	..	..	..	..	..	..	..	..	..	..	
Total, work turned out.	111,195	135,650	180,585	208,645	232,326	444,308	573,476	258,201	216,876	30	Superfluous

From this table it will be seen that there has been a most marked increase in the cost of this portion of the establishment, especially during the last two years, which a comparison with the work outturned does not appear to justify. The numbers and rates of pay of some of the men employed during this latter period are greater than in the years 1876-77 and 1877-78, in which the outturn of work was more than double, and which, moreover, were famine years.

The additional men noted in the remark column of the table appear to the Committee superfluous; under "Office Establishment," besides the regularly sanctioned establishment, there is a contingent establishment of clerks, conocopilays, attenders, and boys appointed by the Superintendent. The particulars of this contingent establishment are given below for the last ten years, and it will be seen that here also there has been an increase in the numbers and rates of pay of this establishment during the last two years. The Committee consider that no establishment should be entertained except under the Public Works ordinary rules, and men otherwise engaged for special jobs should be debited to those jobs as work establishment and not to general charges. Looking at the figures given, nearly as much work was turned out in the year 1873-74 when there was no such contingent establishment; its continuance therefore appears to the Committee to be unnecessary.

Contingent Establishment.

	1871-72.	1872-73.	1873-74.	1874-75.	1875-76.	1876-77.	1877-78.	1878-79.	1879-80.	1880-81.	Remarks.
Smith's Conocopilay.	..	..	..	..	Day.	0 5 0	0 7 0	0 10 0	0 10 0	Rs. A. P. 15 0 0	Rs. A. P. 15 0 0
Filer and Turner do.	..	..	..	..	..	0 5 0	0 7 0	0 7 0	0 7 0	15 0 0	0 6 0
Foundry do.	..	..	..	..	..	0 5 0	0 8 0	0 10 0	0 10 0	15 0 0	0 6 0
Carpenter do.	..	..	..	..	..	0 7 0	0 8 0	20 0 0	20 0 0	20 0 0	20 0 0
One Clerk	..	..	..	..	..	..	..	15 0 0	15 0 0	25 0 0	25 0 0
Do.	..	..	..	..	..	..	..	15 0 0	15 0 0	25 0 0	25 0 0
Do.	..	..	..	..	..	..	..	15 0 0	15 0 0	17 8 0	17 8 0
Do.	..	..	..	..	..	..	..	15 0 0	15 0 0	17 8 0	17 8 0
Moochee	..	..	..	..	..	..	..	15 0 0	15 0 0	17 8 0	17 8 0
Attenders, three, at 6 and 8 As.	..	..	..	..	..	..	..	3 0 0	3 0 0	3 0 0	3 0 0
Boys, four, at 3 As.	..	..	..	..	..	..	..	3 0 0	3 0 0	3 0 0	3 0 0

32. In addition to the above there are charges for labor and materials for general purposes, over which the Superintendent alone can exercise an efficient check; but the Committee consider that it should be distinctly understood that there should be no such charges to this head of items which can properly be charged to the jobs in hand. After jobs have been completed and debited with the charges for labor and materials, and a "percentage for general charges," there is an additional charge for "extra profit." This does not appear to the Committee a correct or politic charge, the object being to make the workshops pay, the charges should not be more than is necessary to attain this object. If the general percentage charge is insufficient, it should be increased instead of an entirely fresh charge being made under the name of "extra profit."

33. The balance at debit of raw materials and manufactured goods is charged with interest; it should therefore be kept as low as possible, and this the Committee consider can be attained by the workshops only manufacturing upon definite orders, and obtaining materials from the Public Works Stores on indent for each order as required: even if the measures above adverted to are sanctioned, the Committee are of opinion that the results will not show a profit, unless the general charges and the management of the shops receive the greatest attention. With this view they consider that more detailed information regarding the transactions from month to month is necessary. At present all that is reported monthly is the amounts received by the workshops and the amounts repaid by it to Government; of the intermediate transactions, on the proper management of which so much depends, nothing is known in the Examiner's Office or by Government.

Past experience shows that the following restrictions are necessary:—

- I.—No work to be executed except upon regularly sanctioned estimates: with half the estimated amounts paid in advance when the work is ordered by private individuals or the general public.
- II.—No additions or repairs to block or machinery to be undertaken except on estimates regularly sanctioned under Public Works Department original works rules, the Superintendent having the powers of an Executive Engineer within the limits as to total funds, to be fixed from year to year by Government. In the event of no funds being allotted, of course no sanctions could be given.
- III.—No establishment other than work establishment to be entertained except under the usual Public Works Department establishment rules.
- IV.—The purchases of stores or materials of any kind should not be permitted, but all such should be obtained from the Public Works Stores on indent, specifying the particular job for which they are wanted and to which the whole should be charged.

In order to afford the means of ensuring that these points receive attention, the accompanying schedules (marked A to F) should accompany the accounts.

As the journal and ledger are closed every month, there will be no difficulty in abstracting this information; and the remaining operations necessary to arrive at the general profit and loss account, which brings out the results of the transactions, can be effected in the Examiner's Office.

While then there is no urgency in the matter, the Committee think that if the gas materials are not to be brought into use soon, it will hardly be expedient to send the brass and glass fittings, the tubes, pipes, &c., back to Europe, but that all should be cleared out by auction sale. The original list of gas stores shows that they were sent from the Tharow Field Iron Works at Glasgow, and as the list is dated the 1st June 1869, there is little prospect of a remunerative price being given if the stores were taken back.

37. PIER STORES.—The Master Attendant proposes to use up the old pier stores lying in the fort in constructing jetties for boats within the harbour. These stores may be turned to account at any time, and the Committee recommend that they may be held at the disposal of the Master Attendant.

List of Gas Materials remaining under the charge of the Superintendent of the Government Gas Works on the 25th February 1880.

Quantity.	Description of Articles.	Remarks.
10	Common round shades, large	Good.
1	Flowered do.	Do.
38	Frosted do.	Do.
2	Chamber shades, small	Do.
2	Frosted chamber shades	Moderate.
29	Chimneys	Good.
6	Punkah or shade tops	Do.
1	Lantern covered on three sides with an oval glass and with tin cover and chimney on the back.	Do.
1	Spare oval glass for the above lantern	Moderate.
1	New gas lantern made of brass for muster	Good and new.
10	Lanterns for oil light	Good.
About 600	Feet of composition pipes of $\frac{1}{2}$ inch in diameter	Old.
About 49	Feet of do. of $\frac{1}{2}$ inch in diameter with ten side lights attached.	Old.
5 feet.	$\frac{1}{2}$ inch composition pipes in three pieces	Old.
12 "	$\frac{1}{2}$ inch do. in three pieces	Old.
10 "	$\frac{1}{2}$ inch do. in two pieces	Old.
3 "	1 inch leaden pipes with a stop cock attached	Old.
2 1/2 "	1 1/2 inch do. do.	Good.
1	Leaden flange with four holes	Do.
1	Glass flower-case	Old and rotten.
1	20 lights metre	Good and new.
1	Large old metre	Do.
1	Photometer, complete	Do.
6	Brass screws for the above metre	Do.
2	Jets of the above	Do.
1	Box containing scales and weights and 1 thermometer	Do.
3 1/2	Dozen jets	New.
1	Argand burner	Good.
1	Wooden ladder, small	Do.
Brass Materials.		
40	Wall brackets, bronzed	Good, 3 useless.
2	1 inch stop cocks for the use of main pipes	New.
10	1 inch do. for the use of service pipes	Old.
3	1 inch stop cocks for the use of leaden pipes	Old.
6	Wall brackets with pieces of wrought iron pipes attached.	Good.
9	Chimney holders	Old.
2	Side lights of theatre room	New and good.
17	1 1/2 inch brass unions for iron pipes	Do.
2	1 inch do. iron and lead	Do.
1	1 1/2 inch do. do.	Good.
30	and 1/2 inch do. do.	Do.
35	and 1/2 inch do. leaden pipes only	Do.
34	1 inch brass tees for the use of iron pipes	Do.
17	1 inch do. do. of leaden pipes	Do.
27	1/2 inch do. do. of do.	Do.

List of Gas Materials remaining under the charge of the Superintendent, &c.—cont.

Quantity.	Description of Articles.	Remarks.
Brass Materials—cont.		
48	Brass elbows	Twenty-three quite new and 25 good.
15	Argand burners for chimneys	Good.
22	Do. for shades	Do.
117	Brass galleries or shade holders	Do.
1	Eight lights star with jets attached	New and good.
2	Brass gilt pendants of sorts	Good.
1	Handsome bracket, bronzed	Do.
1	Brass blow-pipe	Do.
9	Jets of different sorts	Do.
3	Brass pipes of small size	Moderate.
1	Iron pipe with a funnel and brass stop cock attached	Old.
1	Eight-sided light	Old.
1	Light in the form of A	Old.
1	Do. do. of V	Old.
Iron Materials.		
2	Furnace frames	Good.
1	Do. door	Do.
1	Lid of the retort	Do.
14	Ash-pans of the furnace	Do.
1	Key for the lid of the retort	Do.
6	Trays for small lime purifiers	Do.
1	Pickaxe	Do.
2	Tongs	Do.
2	Iron frames for the mouth piece of the retort	Do.
About 130	Feet of wrought iron pipes of 1 inch	Do.
5	Syphon boxes	Do.
1	Collar of cast iron pipe, 4 inches in diameter	Old.
2	Lamp posts of the reading room, of wood	Old.
2	Do. of wrought iron pipes	Good.
6	Long pendants of 7 feet each	Moderate.
26	Iron tees of 1 inch	Do.
9	Elbows	Do.
4	Caps	Moderate.
105	1 inch iron complets	Good.
6	Iron hooks for hanging lanterns	Do.
5	Keys for turning valves, &c.	Do.
3	4 inch pipes of 3 feet with a branch cast in it	Do.
3	Mouth pieces	Do.
1	Retort cost 94 rupees 11 annas	Do.
	One packed dealwood box containing the following articles:—	
2	Large round shades	New and good.
2	Small do.	Do.
2	Large shade covers	Do.
2	Small do.	Do.
2	Large shade holders	Do.
1	1 inch brass stop cock	Do.
1	Large brass ceiling plate	Do.
2	Small brass unions	Do.
1	1/2 inch stop cock	Do.
1	Stop cock for iron and lead	Do.
1	Do. leaden tubes	Do.
1	Do. elbow everything complete	Do.
1	Double bracket	Do.
1	Single do. with a shade holder	Do.
3	Packs containing 23 dozen jets	Do.
1	Pack do. 5 crutches	Do.
1	Packed dealwood box full of iron pipes	Do.

List of Gas Materials remaining under the charge of the Superintendent, &c.—*cont.*

Quantity.	Description of Articles.	Remarks.
<i>Coals.</i>		
a { ...	* Cannel coal remaining on the 25th February 1880 is about ...	TONS. £. 311 1,830 Per ton. RS. A. P. 33 6 11
... {	Common coal remaining on the 25th February 1880 ...	Per ton. RS. A. P. 26 8 0
<i>Old and rotten materials, Brass materials.</i>		
12	Frosted round shades	Broken.
3	Brass sundries	Old and rotten.
3	1 Inch brass stop cocks	Do.
5	1 Inch do. do. plugs	Do.
17	Ceiling plates of sort	Old and broken.
21	Plugs of the stop cocks of old pendants and side lights.	Old and rotten.
12	Stop cocks of the old pendants	Do.
32	Elbows	Do.
7	Side lights	Do.
2	$\frac{3}{4}$ Inch brass stop cocks	Do.
6	Locks, old, of the boxes in barracks	Do.
3	Brass hinges	Do.
1	Do. wheel	Do.
1	$\frac{3}{4}$ Inch to $\frac{1}{2}$ inch stop cock	Do.
1	Copper measure with a stop cock	Do.
1	Iron frame and door	Do.
c { 30	Old pendants	Do.
2	Outlet valves, old	Do.
2	Pulleys, old	Do.
1	Portable forge	Do.
1	Water gas retort	Do.
1	Furnace for melting lead	Do.
1	Hydraulic main of oil gas	Do.
2	Oil gas measures or retorts	Do.
4	Lids of the retort	Do.
6	Ash-pans	Old and rotten.
About 50	Feet of chains	Do.
About 30	Do. of wrought iron pipes	Do.
4	Iron rollers	Do.
3	Iron bars	Do.
1	4-inch pipe, 6 feet long	Do.
3	Round hammers	Do.
6	Keys of oil gas retorts	Three broken.
a. { 11	Iron dies	Old.
c. { 6	Retorts, unserviceable	Moderate.
a. { 68	Feet of thick coir ropes	Rotten.
c. { 38	Do. of do. hemp ropes	Old.
2	Tin cisterns	Old.
	Several sundries of iron pipe, bolts, nuts, rods, &c., weighing about 3 or 4 maunds.	Old and rotten. All corroded and useless.

* Note dated 7th December 1880, this amount was arrived at by calculation merely.—T.K.R.

MADRAS,
4th March 1880.

(Signed) T. K. ROGERS, M.B., F.R.C.S.,
Chemical Exr. & Supt., Gas Works.

Gas Work Materials under charge of the Public Works Department.

Stock and dies,	Name of Material.	
Do. $\frac{1}{4}$ and $\frac{3}{8}$ inch	...	Set 1
Do. $\frac{1}{2}$ and 1	...	1
Do. $\frac{1}{4} \times \frac{3}{8}$ for brass-work	...	1
Rymers 2, $1\frac{1}{2}$, $1\frac{1}{4}$ inch	...	1

Gas Work Materials under charge of the Public Works Department—*cont.*

Name of Materials.	No.
Tube lure	1
Pliers, gas-fitters	6
Augers, worm	4
Pipe-cutter, large	1
Cast steel yarning tools	7
Spanners for cocks	8
Do. back nuts	1
Pipe tongs, $\frac{3}{4}$, 2, $2\frac{1}{2}$ inch	7
Plug	1
Hand hammer	6
Fire clay retorts	4
Cast iron oval retorts	4
Do. at bottom	1
Do. mouth pieces	13
Do. mouth covering plate	13
Do. do.	1
Do. 3-inch way pipe box	16
Do. socket pipes, 9 feet long, 3 inch diameter	29
Do. do. 9 do. 4 do.	6
Do. bend, 4 inches diameter	566
Do. pipe, 6 feet long, $1\frac{1}{2}$ inches diameter	2,528
Do. do. 4 do. 1 do.	6
Iron chain, 22 do.	6
Iron hooks, large	6
Do. do.	5
Do. do.	7
Do. do.	3
Iron handles	1
Iron jumper	12
Lead tube, 2 inch	27
Do. $1\frac{1}{2}$ "	68
Do. 1 "	24
Do. $\frac{3}{4}$ "	240
Do. $\frac{1}{2}$ "	120
Do. $\frac{3}{8}$ "	1
Brass main cocks, 2 inch	76
Do. do. $1\frac{1}{2}$ "	18
Do. do. 1 "	10
Do. do. $\frac{3}{4}$ "	109
Do. do. $\frac{1}{2}$ "	534
Do. do. $\frac{1}{4}$ "	10
Do. do. 1 "	15
Union for iron and tin, 2 inch	2
Do. do. $1\frac{1}{2}$ "	10
Do. do. 1 "	2
Ceiling plate,	68
Do. $\frac{1}{2}$ "	336
Elbow cocks and galleries, $\frac{3}{8}$ inch	545
Do. drop screws, $\frac{3}{8}$ inch	328
Do. do. $\frac{1}{2}$ "	110
Do. do. $\frac{3}{4}$ "	14
Do. do. 1 "	2
Do. do. 1 "	83
Do. do. for tin, $\frac{1}{2}$ inch	21
Brass lever for socket	145
Lever lantern cocks	2
Copper syphon pumper	4
Water gauges with glass tube	7
$1\frac{1}{2}$ -inch cocks, brass plug	1
1 do. do.	15
India-rubber bags for mains	1
Wet meter, 80 lights	1
Do. 10 do.	2
Bodies for 15 set pendants	2
Drop for do. 16 feet long	

9/14/25
10

Gas Work Materials under charge of the Public Works Department—cont.

Name of Materials.	No.	
Bodies for 4 set	4	
Do. for 3 set	2	
Double brackets, two lights	2	
Do. joint bracks	3	
Bodies for pendants, 6 set	4	
Drop tubes, 2 inch	2	c
16 feet long and bodies 2 inches	3	
27 do. and do. 2	1	
16 do. and do. 3	2	
7 do. and do. 4 feet	1	
13 do. and do. 6	1	
Pan head revets, $\frac{1}{2}$ and $\frac{1}{4}$ inch	3,074	a burners.
Snap head revets, $\frac{1}{8}$ and $\frac{1}{4}$ inch	3,252	a
Side glass	1,102	
Top glass	2,211	
Bottom glass	403	
Clear glass globes, 8 inch	1,859	
Cut do. 8	457	
Large glass chimneys, 3 boxes	136	c
Punkah tops with wire gauge bottoms, 5 boxes	800	
W. I. pendants, $3\frac{1}{2}$ long $\frac{1}{2}$ diameter	70	
Do. tubes with coupling 1 inch diameter, $1\frac{1}{2}$ feet long	36	
Do. do. $1\frac{1}{2}$ inch diameter $1\frac{1}{2}$ do.	8	
Do. do. $1\frac{1}{2}$ inch do. $1\frac{1}{2}$ do.	103	
W. I. tubes with coupling 1 ft. diameter, $\frac{1}{2}$ ft. long	30	
Do. bend $1\frac{1}{2}$ inch do.	5	
Do. do. 1 " do.	67	
Do. do. $\frac{1}{2}$ " do.	16	c
Do. tubes for lamp tops, $1\frac{1}{2}$ feet long, $\frac{3}{4}$ inch diameter	5	
Do. pendants	504	
Do. rod, $6\frac{1}{2}$ feet long, $\frac{3}{4}$ inch	485	b 150
Do. carrying bars for retorts	2	c
Do. charging scoops for retorts	2	
Do. do. do. small	1	a
Do. C. I. 2-inch flange bend pipe	1	
Do. do. 3 feet long, 1 inch pipe fitted with plug $\frac{3}{4}$ inch.	4	
Do. do. flange and spigot pipes, $1\frac{1}{2}$ feet long, $1\frac{1}{2}$ inch diameter.	28	
Do. do. do. $\frac{3}{4}$ -inch diameter	6	c
Do. 3-inch valve with handle	1	
Do. 2 do. do.	3	a
C. I. bends, $1\frac{1}{2}$ inch	1	
Do. do. $1\frac{1}{2}$ " "	6	c
Do. pipe 3 " $\frac{1}{2}$ inch	1	
Do. demy pipes	86	
Loose sockets	48	b all of 4 inch wanted.
Flange sockets valve	14	
C. I. 12-inch street syphon boxes	5	
Do. 10 " do.	1	
Do. 8 " do.	11	
Do. scrubbers sieves, pieces	12	
Do. iron sieves, oxide purifier	47	
Do. elbow connection bend, 1 inch	72	
Do. do. $1\frac{1}{2}$ "	39	c
Do. syphon traps and covers	140	
Do. elbow carrier for brackets	96	
Do. lamp brackets	36	
Do. bundles of flat backs for brackets	15	
Belly pipes, each 3 feet long with sockets at both ends and stopped for $1\frac{1}{2}$ services and fitted with plug.	30	
Fire bars	61	
C. I. 14-inch lamp tops	106	
Do. do. do.		

Gas Work Materials under charge of the Public Works Department—cont.

Name of Materials.	No.	
C. I. shell castings for lamp	63	
Do. iron tops for lamp	123	
Solder bolts for brackets	29	
Bottom for lamps	141	
Rods	51	
Knobs	148	
W. I. elbow, 1, $\frac{1}{2}$ inch	98	
Do. tees, 1, $\frac{3}{4}$, 1 inch	45	
Do. do. $1\frac{1}{2}$, $\frac{3}{4}$, $1\frac{1}{2}$ "	130	
Do. do. 1, $\frac{1}{2}$, 1 "	66	
Do. do. $1\frac{1}{2}$, 1, $1\frac{1}{2}$ "	37	
Do. do. $1\frac{1}{2}$, $\frac{3}{4}$, $1\frac{1}{2}$ "	21	c
Do. do. $1\frac{1}{2}$, $\frac{3}{4}$, 1 "	9	
Do. do. $1\frac{1}{2}$, $\frac{3}{4}$, 1 "	13	
Do. do. 2, $\frac{1}{2}$, 1 "	3	
Do. do. 2, 1, 1 "	5	
Do. elbow 2, 2 inch	16	
Do. do. 1, $\frac{3}{4}$ "	27	
Do. tees 1, 2, 1 inch	53	
Do. do. 2, 2, 1 "	10	
Do. do. 2, $\frac{1}{2}$, 2 "	30	
Do. do. $\frac{3}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ "	33	
W. I. crosses, $\frac{1}{2}$, $\frac{3}{4}$, 1 inch	12	c
Diminishing coupling, 2, $1\frac{1}{2}$ inch	1	
Do. do. $1\frac{1}{2}$, 1 "	5	a
$\frac{3}{4}$ -inch tubes with couples 5 inches long	21	
Do. crosses, $1\frac{1}{2}$ inch	76	
Do. couplings, 1 inch	64	
Do. do. $\frac{3}{4}$ "	8	
Do. 2-inch tube ring nut	12	c
Do. $\frac{3}{4}$ " to $\frac{1}{2}$ inch	29	
Do. screw nails, 6 inches long	80	
Do. bolts, 6 inches $\times$ $\frac{3}{4}$ inch	6	
Do. bends, $\frac{3}{4}$ inch to $\frac{1}{2}$ "	6	b all of small size wanted.
Do. gas hooks	2,470	
Do. washers	642	
C. I. lamp washers	53	
Screws, $1\frac{1}{2}$ inch $\times$ $\frac{1}{2}$ inch	360	
Roofing rivets, galvanized	756	
Rings, do.	405	c
Snap head rivets, 1 inch $\times$ $\frac{1}{4}$ inch	723	
Do. $1\frac{1}{2}$ inch $\times$ $\frac{1}{4}$ inch	230	
Do. $\frac{3}{4}$ " $\times$ $\frac{1}{4}$ "	929	
W. I. pipe, 2 inches diameter	22	
Do. $1\frac{1}{2}$ " do.	473	
Do. 1 " do.	4,200	b 500
Do. $\frac{3}{4}$ " do.	12,076	c
Do. $\frac{1}{2}$ " do.	139	a
Do. $\frac{1}{4}$ " do.	1,762	

CHEPAUK,
28th October 1880.(Signed) S. C. PLUMMER, Lieutenant,
Assistant Engineer.

38. The Committee are of opinion that an unnecessarily large quantity of stock has been accumulated in several of the divisions, and the Committee recommend that the amounts entered in the enclosed statement should be considered as the limit of stock reserve.

Those divisions are omitted in which there is access by railway to the head-quarters, with the exception of Tanjore and Negapatam. In these two divisions a reserve supply of rough stone is required for the immediate protection of the larger irrigation works, but stock appears not to be necessary in the other divisions. In the Godavari and Kistna Deltas a stock of timber is represented to be indispensably required by the Superintendents of Works. Separate columns are entered in the statement for building materials, timber, metals, and a general head miscellaneous is given to comprise other stores. The Committee recommend that the reserve stock should be limited to the amounts under each head, and that the total should not be available to increase the limit given for any separate head. If the specific sums have been set down at figures which some experience shows to be too low, it will remain for the officers to show cause to the Government before an increase is allowed.

Statement showing the limit of reserve stock proposed for Executive Divisions.

Divisions.	Building Materials.	Timber.	Metals.	Miscellaneous.	Total.	Remarks.
Vizagapatam ...	...	...	...	500	500	No railway.
Dowlaisheram Work-shops.	...	9,000	6,000	15,000	30,000	
Godavari Eastern ...	5,000	10,000	...	5,000	20,000	
Do. Western ...	...	500	...	500	1,000	
Kistna Eastern ...	3,000	10,000	5,000	2,000	20,000	Includes workshops.
Do. Western ...	...	500	...	500	1,000	
Nellore ...	...	1,000	...	500	1,500	
Cuddapah ...	...	...	...	...	...	
Buckingham Canal ...	...	...	...	...	...	On railway.
Salem ...	...	...	...	...	...	
West Coast ...	2,000	...	...	...	2,000	
Coimbatore ...	...	...	...	...	...	
Tinnevely ...	...	...	...	...	...	On railway.
Trichinopoly ...	...	...	...	...	...	
Tanjore ...	12,000	...	...	...	12,000	
Negapatam ...	3,000	...	...	...	3,000	
South Arcot ...	...	...	...	...	...	
North Arcot ...	...	...	...	...	...	
Chingleput ...	...	...	...	...	...	On railway.
Presidency ...	...	...	...	...	...	
Architect ...	10,000	...	...	...	10,000	

39. MADRAS MINT MACHINERY.—The machinery and stores of the Mint have been lying unused for some years. Endeavours have been made to dispose of these superfluous stores at Calcutta and Bombay, but the engines, cranes, &c., entered in the enclosed list are still left in charge of the Storekeeper.

There is no probability of the Mint stores being turned to account again. The remarks made in the list show almost all the items "repairable;" in other words they are deteriorated and useless; and the Committee recommend that the whole should be sold off, although they believe that not more than the value of old iron will be realised.

List of Machinery, &c., belonging to the late Mint in the custody of the Storekeeper of Machinery.

Description.	Number or Quantity.	Remarks.
Crabs, double purchase ...	No. 2	Repairable.
Crane, 2 tons ...	1	Do.
Crane, small ...	1	Do.
Crane for lifting crucibles ...	1	Do.
Engines, 15 horse-power, combined in one ...	2	Do.
Boiler for 12 horse-power vertical engine ...	1	Do.
Engine, 12 horse-power, with boiler ...	1	Engine repairable, boiler unserviceable.
Do. 6 do. vertical tubular ...	1	Repairable, do.
Do. 6 do. do. ...	1	Unserviceable.
Do. 6 do. do. ...	1	Repairable.
Fan blower, patent ...	1	Serviceable.
Fly wheels, spare ...	1	Do.
Lathes, C. I., turning, 6 feet ...	6	Repairable.
Do. do. 8 " ...	2	Do.
Do. do. 9 " ...	1	Do.
Do. do. 10 " ...	2	Do.
Do. do. 12 " ...	1	Do.
Do. do. 14 " ...	1	Do.
Do. wooden, turning, small ...	1	Do.
Do. screw cutting, 12 feet bed with 5 feet bed attached ...	2	Do.
...	1	Do.

List of Machinery, &c.—cont.

Description.	Number or Quantity.	Remarks.
Machines, coin sorting, with 40 beams for $\frac{1}{2}$ rupees... No.	1	Repairable.
Do. wheel, teeth cutting ...	1	Do.
Do. drilling, 6 feet ...	5	Unserviceable.
Do. laminating ...	2	Repairable.
Do. marking ...	2	Do.
Do. planing, 12 feet ...	1	Do.
Do. do. 3 " ...	1	Do.
Do. polishing disc ...	1	Do.
Do. punching and shearing ...	No. 21	...
Saws, circular, of sizes ...	1	Repairable.
Machine, platform weighing, to weigh one ton ...	3	Do.
Presser, die, multiplying ...	24	Do.
Tables, cutting C. I., fly ...	3	Do.
Do. do. hand ...	9	Do.
Do. do. brass, hand ...	1	Do.
Bucket, foundry, large geared ...	About feet 100	Do.
Shafting, of sizes, W. I. ...	No. 64	Do.
Pulleys, of sizes, for shafting ...	64	Do.
Brackets, C. I., do. ...	11	Do.
Couplings, C. I., do. ...	1	Do.
Ladder, wooden, square ...	1	Do.
Hand-cart ...	1	Do.
Table, circular, saw ...	...	...

40. TANJORE DIVISION.—In this division there is stock to the nominal value of Rs. 17,900, out of which it is proposed to retain nearly the whole at its full book value for use on works. A few articles aggregating in value not more than Rs. 50 will be sold, and the trifling loss on these items may, the Committee consider, be debited to Profit and Loss.

In this division it is necessary to maintain a considerable amount of stock in the shape of reserve store for use on ancient aprons; the exact amount necessary to be thus retained is still under consideration, but for the present the Committee recommend that the limit of value be fixed at Rs. 12,000.

41. NEGAPATAM DIVISION.—In this division there was on the 1st of October 1880 stock in hand to the nominal value of Rs. 3,176-4-9 and to an estimated actual value of Rs. 1,532-8-8. The Superintending Engineer proposes to retain the whole of this for use on the works, but to reduce its value from the former to the latter sum; as, however, the difference would necessarily be charged to the works in question, it seems unnecessary to make any alteration, and the Committee recommend that the items stand as at present until used, when they should be charged at their full book value to the work concerned. In this division, as in Tanjore, the amount of stock necessary to be permanently retained is under consideration. For the present the Committee consider that a limit of Rs. 3,000 may be fixed.

In the Trichinopoly, South Arcot, and Tinnevely Divisions there is now no stock, nor does there appear any necessity for maintaining any.

42. FAMINE TOOLS.—In many districts there are large number of tools that were obtained for famine relief works, but that will not be required collectively again until there is another time of severe distress.

The charge of surplus tools is a burden on the Executive Officers of the Public Works Department; and the Committee recommend that the Executive Engineers should be authorised to transfer to their ordinary lists such serviceable tools as they may require for regular use, to sell off all unserviceable tools, and either to sell locally or to send to Madras to the Public Works Stores; or otherwise dispose of, as may be directed, the rest of the tools, which, though serviceable, are of no use in the districts.

(Signed) H. L. PRENDERGAST, Lieut.-Col., R.E.
(") D. H. TRAIL, Major, R.E.
(") J. PENNYCUICK, Major, R.E.

11th March 1881.

No. 6 E.W.

Memorandum on Committee's Report on Superfluous Stock in the Divisions.

NELLORE DIVISION.—The cast iron calingulah posts would be of very small value if sent to Madras as old iron. There are not very many, and though calingulahs are but seldom used now-a-days, these posts might be utilized for—

- (1) small regulating works in the delta;
- (2) the grooves of tank and distribution sluices.

This will be much better than treating them as old cast iron.

2. DUMAGUDIEM.—All the useless stores and materials should be sold. There is no market there for metals, &c., of value, and I think therefore the valuable articles should be transferred elsewhere at prices not in excess of current market rates. There was a small planing machine which is wanted at the Bezvada shops, and there was a vertical boiler and engine said to be in good order which can be utilized either in the Godavari or Kistna. There are also many cranes. What is wanted is a descriptive priced list. At Sitanagram an indifferent crane has been put up since last year for the stop gate of the head lock. It would have been better and cheaper to have got a crane from Dumagudiem.

Paragraph 8.

3. FLOATING PLANT—GODAVARI.—This plant is not in excess, and whenever any vessel becomes unserviceable the necessary orders are issued by Government on receipt of a report to that effect.

Paragraph 9.

4. STEAMER "PRINCE."—I think the Committee's recommendations at the end of this paragraph are based on a misapprehension. The *Prince* has never belonged to the delta, but was procured for the navigation of the river like the other Upper Godavari Steamers. It should be sold if possible, but the proceeds will not belong to the delta.

Paragraph 10.

5. DOWLAISHWERAM WORKSHOP.—The probability is that the stock generally is not excessive, but that an annual clearance sale is needed to get rid of things which are useless and which are borne on the lists at a value which does not represent the true value. A considerable stock of timber is necessary, and of stores also, because the first is procurable only at certain seasons and the latter include very many descriptions. If the officer in charge have judgment, the stores long in hand should be of small value. The interest on 10 or 15 thousand rupees is small, but the inconvenience of having to wait for material which is wanted for a special purpose is great.

Paragraph 12.

7. GODAVARI EASTERN DELTA DIVISION.—The only stock needed in this division is that of building materials, viz., stone of sorts, lime and limestone. I see no reason why there should be any metals. Those not wanted for the shops should be sold if possible. No doubt the figures as shown are the result of the wholesale transference of stores from the Upper Godavari. The value of building materials in hand should depend upon the annual demand. This division supplies materials to nearly the whole of the delta.

Paragraph 13.

8. KISTNA EASTERN DELTA DIVISION.—I agree generally with the Committee's recommendations. It is probable that there are many things which are either not wanted at all or are in quantities in excess of requirements. It would be well to send any things to Madras which are likely to be readily saleable there, or which the Public Works Workshops and Stores would be willing to take. For the rest I should be inclined to work down the stock by avoiding further purchase as much as possible. I endeavoured recently to impress on the local officers the necessity for turning to

6. No remarks required.

account the material available. This has not been done to anything like the extent desirable.

It would be a waste of money to send the Stoney's valve to Madras or anywhere until it is wanted for a definite work. It was intended for a supplemental head sluice for the Kistna Western Delta Main Canal, and it may yet be wanted for that, and if not, it is more likely to be utilized for some other head sluice or surplus sluice in the Kistna than elsewhere.

9. I am entirely unable to agree with the Committee's recommendation that the reserve of stone, cubes, &c., in the Tanjore Division should be limited to 12,000

Paragraph 40.

rupees. There are scores of most important works, such as anicuts, regulators, surplus works, &c., and there is no stone to be had within many miles of them. Cubes are used in some places instead of stone, and must of course be made at the proper season. Stone also, where procurable at all, can be carted only at certain seasons. I consider the present stock, valued at Rs. 17,900, much too small. The reserve at each work should be a percentage of the contents of the aprons, the percentage in each case being fixed with reference to the circumstances of the work. At my inspections of the last two years I found that some of the outer aprons had almost entirely disappeared, and that there was no material available for their replacement. At the lower anicut on the Coleroon there were no cubes in stock, though a large quantity was needed for immediate use. I think it probable that 40 or 50 thousand rupees would be a reasonable reserve to maintain in this division.

10. NEGAPATAM DIVISION.—The works for which a reserve of stone or cubes is needed are much fewer than in Tanjore and of smaller size. The value of the

Paragraph 41.

reserve will certainly have to be increased.

CHEPAUK,
17th March 1881.

(Signed) JOHN MULLINS, Col., R.E.,
Chief Engineer for Irrigation.

To the Chief Engineer, Public Works Department.

No. 23.

ORDER THEREON, 4th April 1881, No. 914 W.

THE Government consider the following modifications of the Committee's proposals desirable:—

CUDDAPAH DIVISION.—The doors and windows provided for the Bookapatnam Cutcherry will be retained till the 1st August 1881; if no allotment for the work is made by that date, they will be sold as proposed. The loss on the rate of materials prepared for the Nandyal Cutcherry will be debited as proposed if sanction to the estimate is given by the 1st August; if not, the loss will be debited to "Profit and Loss."

Paragraph 4.

Paragraphs 5 and 7.

NELLORE DIVISION.—The iron calingulah posts should be retained for use if required on minor irrigation works. The cast iron truck wheels will be sent to Madras for disposal.

Paragraph 6.

Paragraph 7.
Paragraph 8.

CUDDAPAH DIVISION.—The proposals should be modified in accordance with paragraph 2 of the Memorandum of the Chief Engineer for Irrigation. If the disposal of these stores be incomplete at the close of 1881-82, outright sale of the remainder will be resorted to in the following year.

GODAVARI—FLOATING PLANT.—The *Little Nell* and *Fawn* will be sold outright early in 1882-83 if not previously disposed of.

Paragraph 9.

Paragraph 10.

The proceeds of the sale of the *Prince* will be credited to "Provincial" and not to "Productive Public Works."

DOWLAISHWERAM WORKSHOP.—A large stock of timber is no doubt essential,

Paragraph 11.

but every effort must be made to get rid of useless articles and keep down the value of stores by judicious sales as nearly as may be possible to the sum named by the Committee.

GODAVARI EASTERN DIVISION.—No metals not required in the shops should be

Paragraph 13.

retained, arrangements being made for the sale of the remainder during the current year. Stone, lime, and limestone will be alone retained in such quantity as may be deemed essential by the Superintendent of Works.

KISTNA EASTERN DIVISION.—The "Stoney's equilibrium valve" should be retained

Paragraph 16.

at Bezvada. The stock should be brought down to the limit of Rs. 48,000 by the end of the current year if possible, and by the 1st August 1882 at furthest.

Paragraph 23.

PRESIDENCY STORES.—The result of the action now proposed will be reported on at the end of the current year.

CONSULTING ARCHITECT.—It is greatly to be regretted that the proper price for the

Paragraph 24.

material turned out was not charged in the first instance to the works supplied; there is now no alternative to the disposal recommended by the Committee.

PRESIDENCY WORKSHOPS.—A special report will be submitted at the end of

Paragraph 28.

September 1881 on the result of the action proposed in this paragraph. The undue and apparently unauthorised increase of establishment is very unsatisfactory, and the General Superintendent will furnish early explanation on this

Paragraph 31.

subject and show at once how the establishment can be reduced to at least the previous average.

Paragraph 33.

The books proposed by the Committee will be at once opened and kept posted to date.

BUCKINGHAM CANAL.—The Superintendent of Works will be careful not to dispose

Paragraph 34.

of tools that may possibly be useful in the completion of the works of the canal.

Paragraph 36.

PRESIDENCY GAS WORKS.—This paragraph will be referred for consideration in the Military Department.

Paragraph 37.

PIER STORES.—The stores will be handed over at once to the Master Attendant.

TANJORE DIVISION.—The Superintending Engineer will report at an early date with

Paragraph 40.

reference to paragraph 9 of the Memorandum of the Chief Engineer for Irrigation, after which final orders will be passed as to the future limit for stock in this division.

Paragraph 42.

FAMINE TOOLS.—This paragraph will be referred to the Government of India for consideration.

2. Except in so far as they are modified by the foregoing remarks, the Committee's recommendations are accepted in their entirety, and will be carried out without delay; and the Government desire to impress upon officers of all ranks the absolute necessity for avoiding undue inflation of the stock accounts either by over-manufacture or by insufficient debits to works.

3. All sales made under the instructions now given should be extensively advertised in local papers, and special care should be taken to ensure information on the subject reaching the mining districts where there may probably be a demand for some of the surplus stores.

4. The Committee appointed in G.O., No. 2,276 W., of 1st October 1880, having brought to a satisfactory conclusion the laborious inquiry with which they were charged, the Government desire to place on record their appreciation of the thorough and satisfactory manner in which they have discharged the duty assigned to them.

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.

" Superintendents of Works.

To the Chief Engineer for Irrigation.

" Consulting Architect to Government.

" General Superintendent, Public Works Stores and Workshops.

" Examiner of Public Works Accounts.

" Military Department.

" Marine "

No. 24.

(DOCKET No. 915 W., dated 4th April 1881.)

Copy of the above forwarded to the Government of India.

Captain, R.E.,
Ag. Under Secy. to Govt., P.W.D.

GENERAL
ACCOUNT.

Gobt. of (1881) Madras.
PUBLIC WORKS.

To

THE SECRETARY TO THE
GOVERNMENT OF INDIA.

Dated April, 4th.

Issued

Recd.

Encl.

G. O., 4th April 1881. No. 915 W.

APRIL.

Nos. 22-24.

SUPERFLUOUS Stock of the Public Works
Department, &c.

P.S.

29APL79

PRESIDENCY WORKSHOPS, D. P. W.,
Chepauk, Madras, 27 April 1878.

No. 180

From

THE GENERAL SUPERINTENDENT,
PUBLIC WORKS WORKSHOPS AND STORES,

To

THE *District Engineer*
Presidency
Fort St George.

SIR,

Enclosures.

3

With reference to the Proceedings
of Government, No. 1728, dated 5th April 1878,
communicated under endorsement No. 47,
of 6th Idem and also to Memo from the
Under Secretary, to Government, No. 40 T,
communicated with you No. 377, of the
24th Instant, I have the honor to forward
three Statements, marked A B and C, giving
the information required by Government.
In Statement A, Item I shows the expendi-
ture amount recovered on Bills and Net
Profit from April 1873 to January 1878 given
in lump sums.

2 Item II specifies the cost of a ton
of iron leasing and Net profit thereon

3 Item III shows the value of metal
fuel, labor and other charges for each
individual concerned Statement B shows
how

how I arrived at Rupees 67 per Ton exclusive
of Metal which was intimated in my
letter No 37, dated 4th April 1878.

Statement of Schedule of Rates which were
charged by Monsieur Desfontaines when
working the Foundry and accepted
by Government, which rates were after-
wards adopted by the Workshops.

As regards the cost of casting
from England, I beg to state that iron
castings of any description, have not
been received by the Workshops. Least iron
Pipes received by the Public Works Stores
in 1866, cost Rupees 75 per Ton. Referring
to English Price List, "Appley's Illustrated
Hand Book of Machinery and Iron Works,"
I find least iron Girders rated from £7
per Ton. If to this is added Freight and
all other incidental charges incurred
up to delivery in Madras, say £2-10-0,
the cost per Ton would be about Rs 10-0-0.
If Bombay, five Rupees 15 for cast iron pipes
per Ton, delivered at their plant in Bombay.

I have the honor to be

Sir,
Your most obedient servant

J. A. Manger
Genl. Superintendent
of the Workshops & Stores

Enc. 3.

No. 831.

Submitted to the Chief Engineer,
S.M. with reference to G.O. No. 1728 W
of 5 April 1878.

W. Thompson Major R.E.
District Engineer
Rangoon

Trsf. to S. 3
11 May 1878

W. Thompson



From

P.S. 01679
20 APR 78

The General Superintendent,
P. W. Workshops,

To
The *Arctic Engineer*
Residence

Dated 27
Despatched 27
Received 29
April 1878.

No. 180

Enclosures: 3.
Subject

*Forwarded statement
of the Alaska Territory
from the official year
1873-74 to Aug 1878
called for by Government*

Callahan's Pension and Land allowances

S.B. 592.16.577.
 1728 W. S. 478. Eng.
 C.E. 1631-3-4-4



General.
 To His Excellency the Governor
 From

The District Engineer,
 Presidency.

N. 831.

Dated 11.
 Recd 11 3 May 1878.

No. of Encls. 3.

Cast iron Girders—

Submits further
 report called for from
 Mr. Granger, regard-
 ing —

Ch. B. S. 78.
 To C.E. 11.5.78

TO BE RETURNED
 WITH REPLY.

Public Works Workshops Department
 Madras, 12th December 1879

214/25
 48

N. 3672 W.

From
 The General Superintendent
 Public Works Workshops Stores
 Madras,

To
 The Deputy Chief Engineer
 Public Works Department
 Fort St George

For
 With reference to your Memo. N. 3593
 dated 28th November 1879 I have the honor to submit
 the following report upon the working of the P.W.
 Workshops under my charge.

The main principle is that a percentage
 shall be charged on work, and that the profits made
 thereby shall cover the following
 a... Cost of General Establishment and contingencies.
 b... Labour and materials used for repairing Tools,
 setting up Machinery, and sundry charges, in-
 cluding works necessary for the working of the
 Shop.

c... General charges in the Foundry, viz. items of
 expenditure which cannot be directly charged
 to works.

d... Depreciation at 2 per cent on Block
 e... Depreciation at 2 per cent on Machinery, and to
 Plant

f... Interest at 5 per cent on Capital
 g... Interest at 20 per cent on the pay of the Permanent
 Establishment, for Pension and Leave allowances

It is therefore clear that the Workshops is intended to be self supporting, and that in order to do this, without charging heavy percentages, it is necessary that the items of debit shown in the last year should be kept as low as possible.

I will now take the items in detail.

a. Establishment &c. - This item admits of reduction, as the greater portion of the work is done by the piece, and accordingly having from time to time reduced the list of workmen on daily pay, I have now made out a revised list which will come into force on the 1st January 1880, and will effect a saving of 700 Rs. a month, the total charges under this head being estimated at 1750 Rs., whilst the average for the year 1878-79 was Rs. 2,600.

This reduction will in no way interfere with the efficiency of the Workshops, but on the contrary, I am certain that it will be bene-
ficial, as the Establishment will be more elastic, and when ^{work} is slack, there will not be as formerly a long list of daily paid workmen to absorb the reduced profits.

b. The setting up of the Saw Mill, Foundry, Steam Hammer, buying on of the Red Mills Water, and other works necessary.

have now been completed, and in future the only debit to this head will be the ordinary repairs to Tools and Plant.

c. The General charges in the Foundry - consist of all repairs to Foundry Machinery, and there is no reason to suppose that there

there will in future be any heavy expenditures on this account.

are. Depreciation is a debit to the Profit and Loss account, but a credit to Capital account.

The principle is that of revaluation every 5 years, and the chief point to be considered is, whether the reduction of Capital by 2 per cent on the value of Block and Machinery, compensates for the disadvantage of having to recover the amount from works by means of increased percentages.

For the year 1878-79 the amount surrendered to Government under Depreciation was

Block } Rs. 3943.
Machinery and plant }

The affect of this amount on the Capital ^{Rs.} 2,71,798. is very slight, but in order to recover it from the working Capital of Rs. 2,16,291, it was necessary to increase the percentages charged by 1.82 or nearly 2, vide Statement A.

By the working Capital I mean the value of the opening Balance of Stock, plus cash received from Government, plus value of Stores received during the year, minus the value of the closing balance of Stock.

f. Interest on Capital at 5 per cent.

In order to see how this affects the Percentage charged, it will be necessary to refer to Statement A which shows that nearly 11 per cent, on the working Capital, had to be surrendered under this head alone. This at once necessitates a corresponding increase

Stock & Materials means
Raw Materials
& Bal. of Manufactures

Interest.

increase in the percentages charged, or else the amount could not be recovered.

g. Interest at 25 per cent on the pay of the Permanent Establishment

This caused in like manner 1.5 per cent increase on every Bill submitted

5. To sum up, Interest on Capital and on the pay of the Permanent Establishment, at once put the Workshop in the position of trying to make with money borrowed at $12\frac{1}{2}$ per cent a reasonable profit without charging heavy percentages; which it is impossible to do, and consequently, as the only means of making both sides of account ^{agree}, heavy percentages are charged and work is driven away in consequence. Depreciation does benefit the Workshop to some extent, but, in my opinion, the gain to the Capital account is more than counterbalanced by having to charge an additional 2 per cent on every Bill to make up the "Profit and Loss" account

6. There can be no doubt but that the Workshop can be utilized far more than it is, I do not think that any work is done which could be carried out with greater advantage in England, certainly not with greater economy, as with a moderate percentage. I am certain, that very fair work could be turned out at a reasonable cost.

The average percentage may be said to be between 40 and 50, and I need scarcely remark that, under this condition, a reasonable Bill is an impossibility.

7. With regard to the purchase of stores ⁹¹⁴⁻¹⁵ the General Superintendent is allowed to use his own discretion, and the selection of the market in India, rests with him - I believe that, as a rule, stores are procured at fair rates

8. With a view to enabling the Workshop to charge moderately for their work, I would beg to suggest that the following points should be considered

1st The Transfer to the P.M. Stores Department of all Workshop stores, which, not being required for use during the next year, are simply dead weight. The value of these on the 1st April 1879 was

Raw Materials — Rs 121,598.

Manufactured Articles Rs 66,256.

all stores being now Provincial, there can, I conceive, be no difficulty in the transfer, especially as I am in charge of both Departments

2nd That the only demand made by Government under the head of Interest should be $1\frac{1}{2}$ per cent on the Working Capital

3rd That the amount of Depreciation each year, should not be recovered from the Bills submitted, but that it should merely be written off in the Capital account

4th That the Workshop being relieved of the greater portion of its difficulties, should charge for work done according to the revised scale shown in Statement B, and that at the close of each year this Statement should be examined with

with reference to the "Profit and Loss" account,
as the Workshop should only make just enough
profit to pay all expenses.

9. In conclusion I would observe that no
gradual reform can be of any use in this particular
case, as a large proportion of the Capital is never
likely to be got rid of, except by whole sale
transfer, and also each year it will be more
and more difficult to obtain work even from
Government Officers, whilst on the other hand
when once the Workshop is placed on a proper
footing, I am certain that work will increase,
and that its value to Government, and the
P. M. D. in particular, will be recognized.

I have the honor to be,
Sir,

Your most Obedt. Servant.

W. B. D. D.

Lieut. R. E.

Ag. General Supt. P. M. Workshop & Stores



From P.W.D.
1205079
N^o 589
The General Superintendent,
Public Works Workshops & Stores
Madras.

To
The Deputy Chief Engineer
Public Works Dept.
Fort St. George

Dated 12 }
Recd. 12 } December 1879.

N^o 3672.H

Enclosures. Three.

Subject

Forwards report on the pro-
posed working of the Presidency
P. W. Workshops, Madras.

N^o 589 of 21st
February 1880

A

914-55
Statement showing the Expenditure or working Capital
of the Workshop for the year 1878-79 and the ratio between the
Expenditure and the profits and the different items which are covered
by the profits.

	1878-79	Percentage on Expenditure	
	R. A P.		
Expenditure	2,16,291. "	"	
Percentages charged	91,268. "	42.19	
Cost of Establishment	32,377. "	14.96	
General Charges	27,277. "	12.61	
Depreciation	3,943. "	1.82	Total of Government
Interest on Capital	23,587. "	10.90	does 14 per cent on
Govt. for Pension and Leave Allowances	3,356. "	1.50	the working Capital
Net Profit	724. "	.03	

P. W. Workshops,
Madras 12th December 1879

McDonnell Lieut. Col. E.
Ag. General Superintendent P. W. Workshops



P.W.
12 FEB 90

Enclosure in a letter from the
General Supt. P.W. Stores & Workshop
Madras to the Dy. Chief Eng.
P.W. D., Fort St. George dated
12th December 1879 N: 3672-W.

A

Subject

Statement showing the Expenditure on
working capital of the Workshops
for the year 1878-79 and the ratio
between the expenditure & the profits
and the different items which
are covered by the profits.

B

Statement showing proposed scale of Percentages for the Presidency P.W. Workshops

9/19-15
23

Items	Present	Proposed	Remarks
<i>Labor in the Mechanical Department</i>			
Smiths	50	25	
Filers	50	25	
Carpenters	50	25	
Turners	50	25	
Machine men	50	25	
General	50	25	
Instrument Department	100	50	Scientific Instruments
— 18% —	"	30	Ordinary work
English Materials	50	30	
Country Materials	25	20	
Purchase of Manufactured Articles	10	"	All agency will be done by the P.W. Store Department.
Agency	10	"	
Teak Timber	10	10	
Foundry	50	30	On actual cost of castings The question of Foundry expenditure is under consideration with a view to reducing prices.

P.W. Workshops,
Madras 12th December
1879

Herzfelder *Leutnant R.E.*

Ag. General Supt. P.W. Workshop



P.W.D.
120079

Enclosure in a letter from the
General Supdt. P.W. Stores & Works
Madras to the Dy. Chief Eng.
P.W.D. Fort St. George of 12th
December 1899 No. 3672.W.

B

Subject

Statement showing proposed
scale of Percentages for the P.W.
Stores & Works.

P.S.
29 APR 78

Financial Statement of Messrs. K. S. Foundry from the official year 1873/74

7/15-18
25

Items	1873-74	1874-75	1875-76	1876-77	1877-78 for 10 months up to June 1878.
Number of Workmen	383	391	436	482	589
Output of castings	the 1850 11 say 88	the 1576 13 say 70	the 1723 9 say 77	the 1415 4 say 13	the 2543 8 say 14
Value of Metal	1234 13 3	4200 6 3	5250 8 8	5338 1 2	5006 7 2
Value of Fuel, Sundries &c	3601 12 8	3442 " 3	3637 8 9	3979 15 5	3791 4 "
Value of Labor	2362 3 10	2501 3 7	2806 8 "	2930 9 1	4388 12 "
Actual value of output	12198 13 9	10203 10 "	1354 9 5	12243 9 8	13186 7 2
Amount billed	15527 12 8	15013 15 1	17278 5 4	15694 4 3	10711 4 10
Profit or Centage	3328 14 11	4810 5 1	3523 11 11	3445 10 7	6524 13 8
Liabilities to Government	2859 8 3	2802 5 2	2746 4 6	2667 11 6	1622 "
Net profit	469 6 8	2007 15 11	777 7 5	777 15 1	4902 13 2
Value of Metal per Ton	70 13 7	60 13 10	68 3 "	84 11 8	43 14 8
Value of Fuel, Sundries &c per Ton	40 14 10	49 2 8	573 3 5	63 2 9	33 4 1
Value of Labor per Ton	26 13 6	35 11 9	37 3 8	46 8 3	38 7 11
Actual value per Ton	138 9 11	146 12 5	178 10 1	194 6 8	115 10 8
Amount Billed per Ton	176 7 3	214 7 9	224 6 3	249 1 10	172 14 6
Profit or Centage per Ton	37 13 4	68 11 6	45 12 2	54 11 2	57 3 10
Value of Metal per Man	16 4 6	10 14 4	12 " 8	11 1 2	8 8 "
Value of Fuel &c per Man	9 6 5	8 12 10	12 14 11	8 4 2	6 7 "
Value of Labor per Man	6 2 8	6 6 4	6 9 2	6 1 3	7 7 3
Actual value of work per Man	31 13 7	26 1 6	31 8 9	25 6 7	22 6 3
Amount recovered per Man	40 8 8	38 6 5	39 10 1	32 8 11	33 7 5
Profit or Centage per Man	8 11 1	12 4 11	8 1 4	7 2 4	11 1 2

Remarks

As a large quantity of Truck wheels, slabs for printing Presses, Lamp Pocks, bearings &c had to be cast in 1876-77, a large proportion of pig iron was used, hence the excess in the rate for Metal for that year, and the decrease in the value of metal for 1877-78, is owing to large quantity of Rammers having been cast for famine relief works, for which old iron was used.

Vide Schedule of rates appended, sanctioned by Government when entering into contract with Messrs. Bellore in 1867, which rates have been abided by, by the Workshops.

See Government Order No. 2376, dated 29th September 1871, passing orders on letter from the Genl. Superintendent of P.W. Workshops & Stores, submitting proposals for the improvement of the financial position of the Workshops, in which he recommended to terminate Foundry Contract with Messrs. Bellore, & estimated his profits to be 800 Rupees a month, if 16 tons were cast monthly.

Rupees 73-3-5 on account of Sundries, Fuel &c for 1875-76 was owing to Tools &c (bearings, Firebars, top and bottom plates for leupole, Tools &c) made, blast pipes altered and large number of patterns having been made, which is charged to Sundries &c.

Residency P.W. Workshops
Madras, 27th April 1878

Ex. p.m.

J. H. Cranger
Genl. Superintendent
P.W. Workshops & Stores



Ms. A. 9. 2

Details of the work in which Rupees 67 per ton is arrived, for
 P.S. lease time turned out by the P.W. Workshops Foundry exclusive of metal

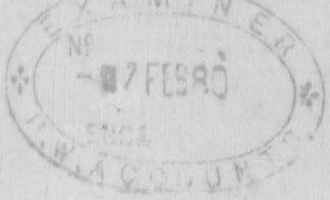
29APL78

Items	From July December 1877	Remarks
Out turn	176549 say 79	
Number of Workmen	361	
Value of Metal	3449 2	
Value of Fuel, sundries &c	2550 8 4	
Value of labor	2739 9	
Total	8738 11 1	
Deduct value of Metal	3449 2	
Total expenditure exclusive of Metal	5289 9 1	
Value of out turn per ton, exclusive of metal	66 15 4 say Rs 67	

91945
 87

Residency Mr. Workshops
 Madras.
 27th April 1878.
 J. H. Wainwright
 Genl. Superintendent
 P.W. Workshops & Stores

Exp. Mr.



17.5409
2/28

P.S.
29 APR 78

Schedule of rates for Common Castings

919-15
919-15

Prices
per ton
from
Rs 90.
to
Rs 140.

1st class

Plain Skids and Posts, Firebars,
Floors, Moulding boxes, Racks, Plain straight
Girders, Sole Plates, Shuts and Brackets.

Buildings & Constructions

2nd class

Core Bars, Roofs, Shafts, Drain and Sewer
Gratings and Trap doors, Beams, Joists, Trunks
and Gas Pipes, Plain Columns, Snow Pile,
and Piles, Braces for Dr. Lamp Post (primary patterns)
Plumber Blocks, Couplings, Standards,
Weights, Arched Bridge girders

Machinery & Engineering

3rd class

Tanks & Cisterns, Rollers, Pulleys, Flywheels, From
Cylinders, Shafts, Cog wheels, Pinions, Bevel wheels Rs 180
Pumps, Winding Machinery, Steam Engine framing, to
Trucks, Cranes, Turn Tables, Weighing Bridges, Cooks, Rs 210.
Valves, Small Pipes, Joints, Luch Hore, Bricks,
moulds, Bridge Railings, common Railings
(heavy) Gas Networks &c.

Ornamental & Light Castings

4th class

Small Pinions & Cog wheels, small Machinery
pieces of the above under 10 lbs, Columns with ornaments,
Light Balcony Railings, Balustrades, Door Frames, From
(all the above open work) Stair case steps, Benches &c. Rs 210
to
Rs 360

Madras -
27 April 1878

J. N. Sampath
Genl. Superintendent
of Mr. M. R. S. & Co.

N.B. Though the charges in this Schedule vary from Rs 90 to Rs 360 per ton
yet the Workshops charges on no account exceeded Rs 210 per ton up to this date.

S. M. M.



135409/30
3/30

Statement Shewing the different kinds of
Workmen Employed in the P.W. Workshops, and the
different rates of Wages paid to them.

9 Nov 80
30

14 FEB 78

Rank R.

Number

Rate

Employed

From amount To amount

R. a P.

R. a P.

Mechanics Dept.

Smiths	25	from	" 15 "	to	" 5 "
Hammer Men	19	"	" 56 "	"	" 46 "
Bellows Boys	12	"	" 4 "	"	" 16 "
Chucklers	2	"	" 7 "	"	" 6 "
Turners	12	"	" 14 "	"	" 10 "
Filers	48	"	" 14 "	"	" 4 "
Boys	34	"	" 4 "	"	" 2 "
Machine Men	23	"	" 11 "	"	" 5 "
Drillers	7	"	" 76 "	"	" 5 "
Engine Drivers	6	"	" 13 "	"	" 5 "
Firemen	9	"	" 8 "	"	" 5 "
Carpenters	17	"	" 14 "	"	" 46 "
Boys	3	"	" 3 "	"	" 2 "
Painters	5	"	" 7 "	"	" 46 "

Foundry Dept.

Moulders	44	"	" 13 "	"	" 4 "
Boys	18	"	" 3 "	"	" 16 "

Machinists Dept.

Engravers	1	30	Reapers a month.
Machinists & Repairmen	5	80	Reapers to 30 a month.
Filers	6	12	" " 4 "

Presidency Workshops
Madras 13 Feb
1878

J. H. P. P.
Genl. Supl. P.W. Workshops

30-9-90



30-9-90

TO BE RETURNED
WITH REPLY.

12th April/91
L 2914-0

114-15
Bangalore
19th Sept 1880

My dear Col. Sankar -
I read the Telegram and
expected to have been down
Madras ere then when I
could have called to see you
about the machinery. A few
of the machines in the mill-
ies which I engaged about
long to the D.P.M. but the
ones which I wanted
at and some black-
smiths forges to be made
in the department; citius
- Gun Carriage Factory
in Arundel and it
is here that we
understood could make

30-99-900



let except at looked at two or three more that
much
too high - I saw some from me could utilize. But
he mentioned that he was therefore you think that
sure you would see the prices of the machine
the prices for D.P. M. - belonging to the other
machines were reduced to a fair
to a fair amount. But market value I would
did not want them to down & look see
urgently & as I did the machines more
not act further at carefully & let you
the time. I will see a complete
sent as returned to at 1/2 what would
me by Bradley and it was.
I think you of the price were fair
would like me if

30-88-90



Let- can
The 62 Lathes No 183
at once -
It is in the hands
of the Chief Engineer
in the Carriage Factory. I
can be reached I will
immediately advise the
the first time I am
down to Madras
from service
J. B. P.

P.W.D.
26 FEB 90
No. 131/1828

No. 142.

9/4-90

Suppy. Regt. Office
Madras 15th April 1890.

From

The Superintending Engineer
1st Circle.

To

The Chief Engineer

P.W.D.

Madras.

Sir,

Enclosure
1 Piece of

I have the honour to report
that there is a quantity of stock materials
in the Bellary Division, valued at
Rs. 2076-2-6 and consisting of doors, win-
dows & roofing timber, that has been
on the books for the last 7 years

2. The purchase of these materials on
stock account, was made upon J.O. No. 2268
and 2274 dated the 24th and 25th September
1872: but additional Barrack accommoda-
tion is not likely to be built in Bellary
and there seems no prospect of the work
being turned to account on other Govt.
buildings in the District. It is also
considered that the wood work will not
fetch as much as half its stock value,
if sold by auction.
The outlay is altogether unproductive; and

Dec. Vol.
Herewith.
15/4

914-15
34

the stock account may remain burdened
with the amount for a long time,
before any use can be found for the wood,
so that I would ask for authority to dis-
pose of the stock, even at a considerable
loss.

3. In case however you may think
the stock might be made use of elsewhere
I enclose a printed list of stock as available
for transfer to another Circle. *price*

I have the honor to be
Yours most obedt servt.
Wm S. Sanderfoot L. C. 188.
Suprog. Registrar 1st Circle

The S E is requested
to dispose of the
stock in question in
accordance with the

P.W.D.
16 APR 80
From No 2553
The Supof. Engineer
10 April

* Principles laid down
in Circular No 1116 of
14th Inst. -

To The Chief Engineer
P.W. Dept.

Date 15th
April 80

Stock materials lying at
Engineers Yard Bellary

Requesting orders
for the disposal of -

P. J. O

List of Stock & materials lying in the Engineers
Yard Bellary District

Description	N ^o	L	B	D	Contents	Rate	Per	Amount
No 5 Black Family Quarters R. A. Garrison Battery Rafters 16 of these in Coupled with the Rods	40	13 1/2	3	5	56.250			
8" 8"	77	11 1/2	3	5	92.239			
8" 8"	12	12 1/4	2 1/2	3	7.656			
8" 8"	3	11	2 1/2	3	1.718			
Beams	2	12	6	9	9.000			
Pieces	1	60	2	4	3.333			
Total					170.196	3	8	Cft 595 10 11
Iron tie Rods 11 long 1" diameter Pannelled and Venetian Doors with framed shutters 8' high fixed Venetian to frame 1' high	8	9	5		69	---	---	552
Pannelled Doors with framed	3	7	3		26	---	---	78
Fixed Venetian Ventilators	3	2 1/2	1 1/2		12	---	---	36
Venetian and Glazed windows	2	6	4		34	---	---	68
Doors 1/2 pannelled 1/2 Venetians with perforated zinc top with frames	4	4	8		50	---	---	200
8" 8"	2	3 1/2	7		37	---	---	74
Windows with 8" 8"	6	4	6		35	---	---	210
Batten doors with framed	2	3	6		25	---	---	50
Glazed Ventilators (no glass) with frames	4	1	2		8	---	---	32
Iron doors to premises without frames	10	1 1/2	1 1/2		3	80	---	14
Total Request								2005 10 11

30 March 1880.

W. T. Fisher, Col. R.E.
Executive Engineer Bellary District

1. 914-15

COLONEL J. P. TENNANT, R.E.,

The Secretary to Government of Illinois
P.O. Department

Madras,

Dated _____

B
5 July 1880

No. 093

Rev

I have the honor to forward in original
a letter from the Store keeper of Machinery at
Madras. This is, I think, the 5th application
which has been made to me, each being in a
form in which I cannot give any decision
for want of data.

The articles marked B, are in now
specially Mint stones. I should think that any
Mechanical Engineer the Railway must have
some, if Government have none could give

M. F. No 127.

P. W. D.

16 APR 80

NC

Thou

The Edw. Langford.

Ed. May Jr.

The duty cannot
be denied

Dates 30 }
 1850 }

Richd. Smith Esqr
Wood Lunden Hyung
in the Emigration
Hallway.

an opinion if they are worth having.

I have marked a few articles C. It is impossible to judge whether these could be used here without some detailed information which, I should think, could be got from some Mechanical Engineers.

I shall want a machine for grinding & polishing finishing rolls for silver with an emery disc. If the so-called Roller polishing machine could be readily adapted, it has and gives surfaces ^{smooth} and true, it might be worth getting. I simple ^{with this information} sketch would let me form an opinion. The same of the "Machine Polishing Disc" which I do not know.

I want cutting presses for cutting papers & the last item under this head may be what I want, but I need some description & drawing.

I trust I shall be excused for troubling you but this purposeful correspondence has been going on now for long list of articles being sent through various channels without the need for details which have been repeatedly asked for. It is useless to suppose I have spare Engineers to go to Madras to inspect what may be mere rubbish, and if the details required cannot be given as suggested then I would suggest that all be sold at once to the best advantage without further correspondence which can lead to no end.

I have the honor to be
Yours faithfully
Wm. H. P. F.
Master of the Mint

+ Letter from the
Master of the Mint
Calcutta No 693
d/d July '80

+ No 1700 d/d 13 July 80
Communicated to the ^{9/4/80} ~~the~~ ^{the} ~~the~~
Superintendent of Machinery
requested to furnish to the
Chief Engineer the in-
formation asked for as
regards "A" and "C", and
communicating with the
Chemical Examiner as
regards "A".

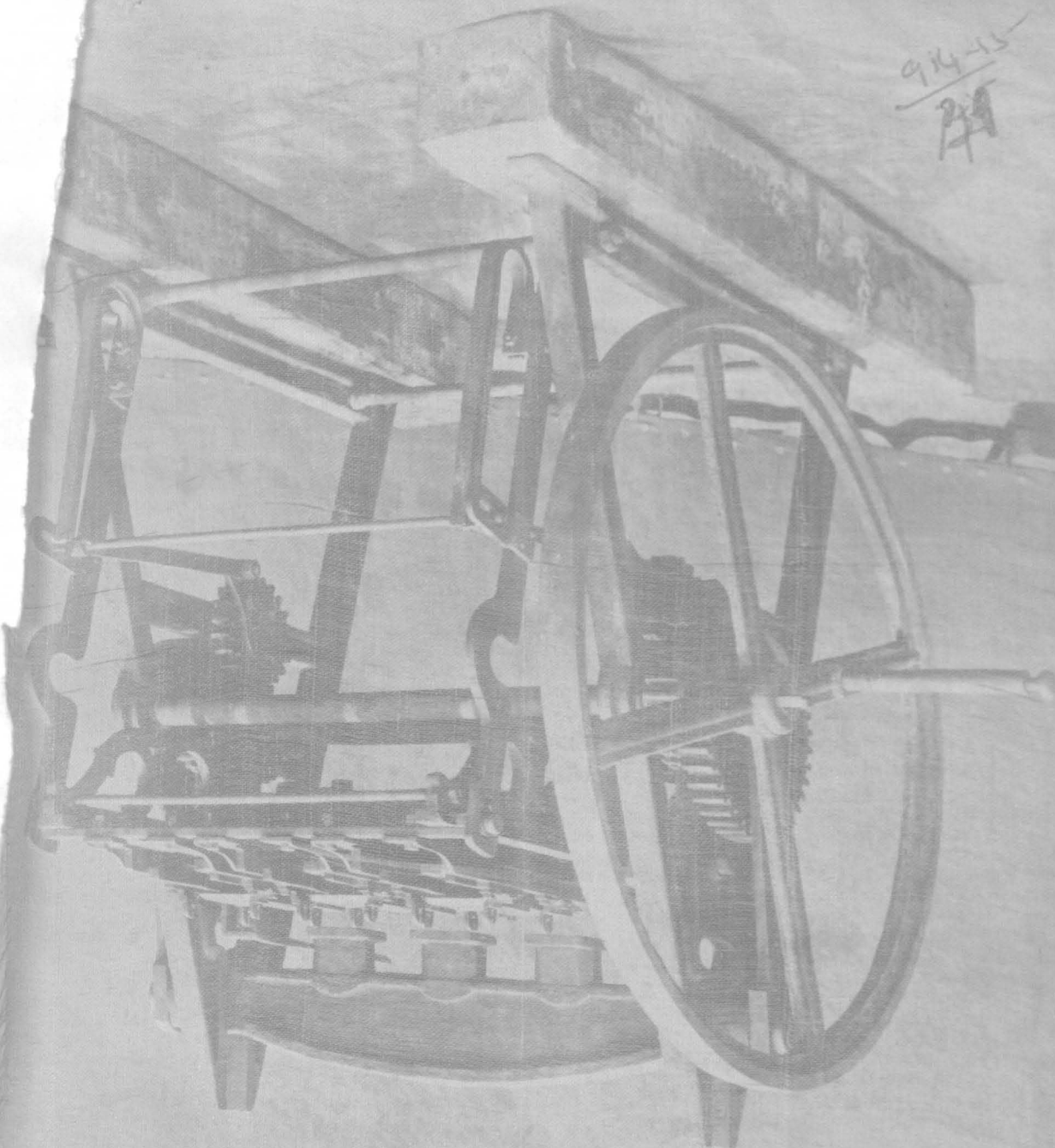
The articles marked
"B" are, it will be

Madras, 14th July 1880.

No. 36

9/14-15
24 42

9/14-15
24



No 1700?
to ask
s marked
copy -
the

raph that
the -
dy, the

ined by
robably
master
to
go, more
man.

Honorable

Ed Lowant

Lieut Mr.
Machinery

MACHINERY STORE DEPARTMENT,

Madras, 14th July 1880.

No. 36

FROM

THE STOREKEEPER OF MACHINERY,

MADRAS,

To

The Chief Engineer
R.M.W.

Sir,

Enclosures. 4

1 Photograph

2 Papers returned

With reference to your No. 1700? dated 13th Instant, I have the honor to ask for permission to have the Machines marked C photographed, as the most satisfactory means of giving the Mint Master the information required.

I enclose a photograph that was made some time ago, of one of the "Stamping Machines" in my custody, the cost of 6 copies being Rs. 25/-.

The information required by the Mint Master, Calcutta will probably shortly be asked for by the Mint Master Bombay, and it is therefore desirable to avoid the labor of making drawings, more especially as I have no draftsman.

I have the honor to be

Your Most Obedt Servant

W. C. Budden
Storekeeper of Machinery

Recd
14/7

P.W.D.
16 JUL 80
No 4564

From

The Storekeeper of Machinery,
Madras,

To

The Chief Engineer
P.W.D.

Dated

14th

Received

No.

3

3 July 1980

ENCLOSURES: 4.

1 Phot. Graph
& Paper & Whites.

Requesting permission
to have Machine mounted
C. Photographs for the
Chief Engineer, P.W.D. with
enclosures.

* 2 enclos. retained to Storekeeper
of Machinery vide C. No. 4737
of 1980.

No 1748 d/19 July 80
The Storekeeper's proposal
to photograph the
machines & send it is
approved, provided the
cost does not exceed
Rs 50 -
It should however be
remembered that the
Photographs must be
supplemented & complete

26/7/80-15.7.80

MACHINERY STORE DEPARTMENT,
Madras, 23rd August 1880.

No. 48

FROM

THE STOREKEEPER OF MACHINERY,

MADRAS,

TO

The Chief Engineer
R.M.D. Madras.

SIR,

Enclosures. 5

1 Photographs.

1 List.

1 Original letter.

accounts of the condition
of the machines, which can
not be put back from the
photographs -

With reference to your Memo No 1700 dated
13th July 1880, I have the honor to forward photographs
of the machines marked C in the enclosed List.

"Lathe Roller Polishing". In fair order, want
cleaning, and bearing parts reset, could
readily be put in working order.

"Machine Polishing Disc". Indian make, rather
roughly constructed, in fair order.

"Machines Laminating". In fair order.

"Tables Cutting". Brass Guides all worn, new springs
required, otherwise in fair order.

2 The stands of the machines
would not be worth sending to Calcutta, and
it would be advisable for the Mint Master
to state if any other parts might advantageously
be omitted, as I could keep these portions in
store and send them afterwards should they be
required.

3 With regard to the articles marked
A, Government have, in their order No 1081 of 16th
July 1880, decided that these should be sent to
the Accountant General.

I have the honor to be

Yours Most Obed Servant
Wm. Braddell
Storekeeper of Machinery

20
W.D.S.
23/8/80

19-7-80 to 17-8-80
13-7-1700

P.W.D.

25 AUG 80

No

5368

From

The Storekeeper of Machinery,
Madras,

To

The Chief Engineer

Dated

23rd

1978

Received

No.

48

30 August

ENCLOSURES.

3

+ 3 photos

Surgeon

Stomach 30th

Part of Machine's marks

is in the enclosure list

with certain remarks

2^d Circle

List of Stock Articles recommended to be disposed forwarded with request to Chy. Eng. Co. Memo No. 116 of 14 April 1900

Name of Article

Proposed method of dealing with balance. Further action if any.

Stock articles not likely to be brought into use and recommended to be disposed as shown against each item.

1 Round iron 1 1/2 diameter 418. Sell by auction in Public Work Book

not required else. shop will be when addressed.

2 Casuarina Posts 240 These posts have been Depreciated of

molly used in Ring. Stock value to be

bund. Red Hills charged against

Tank but have Red Hills Ring

not been charged bund.

to work should be

sold by auction on

demolition of bund.

3 Granite stone cut 4378.

Haratalayar Bridge

Sell by auction Buy at 1/2 price

about equivalent

value of later etc.

for additional

Recap. Chelavaram

Tank. Last stones

otherwise nearly

insalable.

These stones are

not likely to

fit at very much

but should be

sold as they cannot

be looked after -

The stones were

intended

4 - D^o at Sholinghur Railway

Station 328.

5 - D^o at Lucarry 1144.

Carried over 18958.

9/19/15

the here by the

400

Brought over 1895 &

6 Bricks near the river

Supply Channel 14 4

There is in the list

but no such stock

exists. In a recent Mr. Farley

enquiry it was stated will be written

that the bricks were to on the subject

Sold by Mr. Farley

under Major Clark

Orders & the process

Rs 5 expended in the

Tamara park garden

7 Ammunition Gun Powder

Service R. S. G. 181 4

8 Barrels teakwood, with

Copper hoops 100 lbs 61 1

This may be returned

to the supplying authorities

It was indicated

for in the case of the - turned to

Red Hills emergency store

and is of no value

to this Department

whatever might be

transferred to any Dist

requiring blasting powder

9 Cast iron pipes 5" diameter 213 9 4

10 Wrought iron pipes 1 1/2" D 40 6

11 D 1 1/4" D 29 10 9

12 D 1" D 79 13

13 D 3/4" D 14 13 7

14 D 1/2" D 1 2

Articles charged to R. S.

Barracks, should be transferred to General

required, should be transferred to General

ed as stock & value are

ditto to Military Department

R. S. Barracks may be

sold or transferred

Total Charge put in 2581 7 8

intended for the

and I think the

L. F. Board should

share the loss, if

not meet it entirely

In the latter case

it will be paid

on their shoulders

74-5

15	Disinfecting powder MacDagals	32 4.	For disposal 180	Will be sold by public auction when opportunity occurs
<hr/>				
	Total Coimbatore Do.	32 4.		
16	Quinine	113 2 6	Do	This is not required now. The Calcutta L.S. Board will be asked to purchase the quinine.
17	Patent Forge	128 10 10	Do	Not required. The L.S. Board will be asked to purchase the Forge.
18	Portland Cement	729 9 6	Do	
19	Do Do	30 7 6	Do	
20	Do Do	162 8.	Do	
21	Blasting Powder	172 3 7	Do	
22	Wheel Props & Machinery	20 4.	Do	These are not required to be retained perma- nently. They be dis- posed of.
23	Tiles Guttering	35.	Do	
24	Do Tapping	23 5 4	Do	

25	Jennings Patent Close Top basin	108.	Do	No probability of their being brought into use within 12 months should be disposed of.
26	Do Supplying valve with Chain & Bolt	73 8.	Do	
27	Ball cocks & Balls	26 4.	Do	
28	Bends & Connection for bottom closets	7 8.	Do	
29	Angle Iron	51 11.	Do	
30	Lime Kilns with sheds of corrugated iron roofing, Cotacasmund and Wellington	1,800.	Do	

Total West Coast Do 3482.2 3

Supy Engrs Office 2^d Circle
Coimbatore, 21st September 80

M. M.

Supy Engrs 2^d Circle

Major R.R.

9/14-10
28

Encls. No. 1.

In a list No. 295 of
21st September 1880 from
Suppl. 2nd Circ.

P.W.D.

23 SEP 80

No. 6023

U. S. M. 221

1st Corp

In forwarding of

Stock articles:—

List of — the
disposal of which is
recommended.

No. 2002 d/27th Aug. '80 9/19/80

Col. J. F. Tennant. R.E.
Master of the Mint
Calcutta.

Sir

Adverting to your letter No. 693 of
6th July '80 regarding Machinery of the
late Madras Mint now stored here
I have the honor to forward copy
of a letter from the Storekeeper
together with photographs of the
articles marked C in the list.
These with it is hoped, afford
you such information as will
enable you to judge whether
the articles can be utilized by you
in the Calcutta Mint.

2. You will observe that the
articles marked A in the list
have since been disposed of

Despatched with
Enclosure 3 photographs.
W. R. P.

3. The original enclosures
of your letter are returned.

I have to
say
for etc.

No 17/14.

Sup^t of Works Office Kistna
Machilipatnam
4th November 1880.

From

The Superintendent of Works
Kistna

To The Chief Engineer
P. W. Department
Madras

Sir I have the honor, with reference to
your memo No 1116 of the 14th April last, to
submit a report on the stock maintained
in the Divisions of this District.

2 It is in the Eastern Division alone
that there is any stock.

3 As the report called for by you
was not submitted at the date originally
fixed, I beg to give the figures brought up
to a later date, viz the 30th June. This is the
more necessary, as under instructions from
the Examiner, the Workshop accounts were
in June last amalgamated with those of
the Division, thus adding a large sum to
the stock balances, shown in the Division
accounts.

In the Kistna Eastern Division
the debit balance against stock
on the 1st June 1880 was ————— Rs 52,864
The further debits made during the month
were as follows.

Value of Stock transferred from
the workshop. Rs. 52,864

Rs. 25,352

Stock purchases during June 1880. Rs. 4,622

Workshop outstanding on works

or articles manufactured, charged

to Stock manufacture and carriage. Rs. 19,932

Increase to manufacture account

of Amint Superintendent during month. Rs. 668

Total Rs. 50,574

Deduct

Credits during June 1880

By Stock. Rs. 5,553

Manufacture. Rs. 1,757

Balance at debit of Stock 30th June 1880. Rs. 7,310

4 The above is the book value of Stock. Rs. 96,128

5 The actual stock in hand on the 30th

June was only Rs. 63,667. The difference Rs. 32,461 is

made up of 2 items

(A) Manufacture account in Workshop. Rs. 19,932

(B) Rs. of Quarries and Kilns. Rs. 12,529

32,461

(a) Includes expenditure incurred in the
Workshop on works, or on articles manufactured.

There is no doubt that this sum of nearly Rs. 20,000

is very much more than should, under proper ma-

agement, have been allowed to accumulate

in the Workshop and is due partly to workshop

have been commenced in the Workshop without proper

authority, partly to sums due by private parties,

and partly excesses on sanctioned estimates.

Rs. 1602
26-10-80

the Head Sluice at Begwada¹¹⁻¹⁵ and Sitnaga-
-ram for instance, regarding which a separate
report has already been submitted to the Chief
Engineer for Irrigation. Every endeavour is
being made to reduce the balance outstanding
in the Workshop.

(b) Is an outstanding balance on stock manufac-
-ture under Quarries and Kilns, and as there is
only a small balance for which value can be
shown, the bulk of this item represents loss on
the Quarries during past years. A report on
this subject has already been forwarded to the
Chief Engineer for Irrigation, on the 16th Ultimo.

6 As regards the sum which will be
required under proper management as a
maximum balance for the Eastern Division,
the present accounts form no guide. My own
experience of the District is but limited. In
the Quarries the balance must fluctuate with
the required output of stone, but I doubt if
it would ever be necessary to have more than
Rs. 5,000 as a maximum balance.

7 As regards Timber, Metals, &c, the
monthly issues during the last two years ave-
-rage Rs. 5046; according to para 3 of your memo
under reply, 6 months supply would amount
to Rs. 30,000, but as Timber could hardly be
purchased in quantities to last only 6 months,
I think that Rs. 35,000 would be safer as a ma-
-ximum balance.

8 No sanction has yet been accorded to a fixed maximum balance of Reserve Stock as required by para 1300 of the P.W. Code. and the Examiner has recently called on me to obtain sanction to a fixed amount. I would therefore ask that, at present, the sanctioned maximum be Rs 40,000 as detailed below.

Small Stores	1,000
Building Materials	5,000
Timber	20,000
Metals	7,000
Fuel	500
Shatchers Materials	50
Painters Stores	450
Ordage	500
Miscellaneous	3,000
	<u>40,000</u>

9 If the workshop accounts are amalgamated and kept with the stock accounts, a certain amount must necessarily be outstanding under manufacture and carriage. Rs 5,000 should be a maximum for the Workshops and Rs 3,000 for the Quarries and Mills: hence Rs 8,000 would be total maximum under this head.

10 For Stock and manufacture together, the total fixed Reserve would be Rs 48,000. Some time must elapse before the

present outstanding amount can be brought down to this, but every endeavour will be made to reduce it.

12 If the above proposals are approved by you, please obtain the necessary sanction of Government to the amount of fixed Reserve proposed.

I have the honor to be
Sir
Your most obedient servant

J. W. Russell
Superintendent of Works
Pistna

No 2528

Transferred to
the President of the
Stores Committee.

P.W.D.

13 NOV 80

No

From
The Superintendent of Works
H.M.

15 Nov 80

S
By W

To
The Chief Engineer
P.W. Dept.

Rs 100/-
Dated 4/11/80
Dated 7/11/80

Stock Reserve -
Reporting on the
amount of the fixed

Transferred

Buckingham Canal Division

Remarks
Prepared method of
dealing with the
Balance

No. and value proposed
to be retained as likely
to be used within
the next 18 months

Estimated market
value

Rs Value

Number in hand

Name of Article

Value
Rs

Limit of materials at site of works will be disposed of
under G. O. No. 2425 N of 20th October 1880.

Office of the Supt of Works
Buckingham Canal
Chiswick 10th November 1880

To, The Chief Engineer
P.W. Department
With reference to Circular No 2395 of the
26th October 1880.

No 2108

To, The Chief Engineer
P.W. Department

With reference to Circular No 2395 of the
26th October 1880.

9/11/80
53
Alfred W. Captain R.E.
Superintendent of Works
Buckingham Canal

P.W.D.
12 NOV 80
NR 1165

Buckingham Canal

No 2108 of 10th Novr/80.

List of materials at
site of works will be
disposed of vide L.O. No.
2428 W of 20th October
1880.

No 2572 Transferred to
the President of the Store
Committee.

J. D. W.

13 Nov 80

No 1831.

Supt. of Works Office Kistna
Camp Duggirala
20th November 80
Ref 25" - wa

From

The Superintendent of Works
Kistna

To

The Chief Engineer
P.W. Department
Madras

Sir

With reference to your memo No.
2459 of the 9th instant, I have the honor
to inform you that, the Report regarding
the stock maintained in the Divisions
of this District was submitted with my No.
1714 of the 4th instant.

I have the honor to be
Sir

Your most obedient servant

J. W. Rumsall
Superintendent of Works
Kistna

Compd

No 2725

Transferred to the President of the Stores Committee in continuation of endorsement No 2529 dated 15 November 80.

From
The Superintendent of Works
Kistna

To
The Chief Engineer
P. W. Department.
Madras

Date 20
Despatch 23 } November 80
Recd 3/12/80

No 1831

Stock maintained in the Divisions of the Kistna District.

Report regarding the -
Informs that the - was submitted with No 1714 of 4th Nov 80

Transferred

Stores Committee

7/12/80

No. 2650

914-15
55

FROM

THE SUPERINTENDENT OF WORKS
GODAVARI DISTRICT.

TO

THE CHIEF ENGINEER P. W. Department.
FOR IRRIGATION

Enclos.

Dowlaiswaram, 10 December 1880.

Despatch

SIR,

With reference to your Circular No 2395 dated 26th October 1880, I have the honor to forward herewith the Stock Returns of the Eastern and Western Divisions Godavari for the half year ending 30th September 1880.

The Return sent to C. on 23-4-81, in compliance with his office order No 478 20-11-80 -
C. 23/11

I have the honor to be,
Sir,
Your most obedient Servant.

P. P. P. P. P.

Suplt of Works Godavari.

Compd.

No. 2888.

Transferred
to the President
of the Stores Com-
mittee.

(By order)

Am Beny S
Major R.E.
By Chief Eng^r S.W.D.

17th Dec/80.

From *Sir C.R. 7967*
The Superintendent of Works
Godavari

To
The Chief Engineer
P.W. Department

Dated 10th
Received } December 1880

No. 2650
Enclosures 2

Eastern and Western Divs
Godavari. Stock Returns of
for the half year ending
30th September 1880. Forward-
ing the
Transferred

No. 2739

FROM

THE SUPERINTENDENT OF WORKS

GODAVARI DISTRICT.

TO

THE CHIEF ENGINEER P.W. Department.
FOR IRRIGATION

Enclos.

Dowlaisheram, 17th December 1880.

Sesof 10th

SIR,

In continuation of my letter No.
2658 dated 10th December 1880, I have the
honor to inform you that the Balance
Return of Tools & Plant of the Western
Division Godavari for the half year
ending 30th September 1880 has been for-
warded to the Examiner Public Works
Accounts on the 13th December 1880, and
that the one of the Eastern Division
will be sent shortly.

I have the honor to be,

Sir,

Your most obedient Servant.

Ex Eng^r

For Supts of Works Godavari

Compd by
Sd

Stock Committee
No 14

Transferred to
the President Stores
Committee in continuation of
of endorsement No 2888
dated 17 Dec 1880

The Superintendent of Works
Godavari

The Chief Engineer
Public Works Dept.

(By Order)

By Order
of Chief Engineer
Public Works Dept.

Date 17th
Received } December 1880

7 Jan 1881

No 2739

Godavari Workshop Division
Balance Return of Tools and
Plant for the half year ending
30 September 1880 of the Superin-
tending that the was forwarded to the
Examiner of Public Works Accounts and
the one of Varkala Du will be sent shortly

914-15
56A

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

7th June 1880, No. 1,333 W.

General
Account.

Read the following papers:—

No. 11. From Lieutenant W. L. C. BADDELEY, R.E., General Superintendent, Public Works Stores and Workshops, to the Chief Engineer, Public Works Department, dated Madras, 25th February 1880, No. 4,378 W.

With reference to your memorandum No. 589, dated 21st February 1880, I have the honor to return the demi-official from the Executive Engineer, Mysore State Railway, and to report as follows:—

2. Any surplus machinery or stores belonging to the workshops which may be required by the Mysore State Railway can be issued at a fair market rate, and the difference between the book price and that realised can be written off to "Profit and Loss" in the workshops' accounts.

3. Machinery and stores belonging to the Public Works Store Department can only be issued at book rates unless Government are willing to make an exception in the case of the Mysore State Railway.

4. Machinery belonging to the Ordnance Department can only be issued with the sanction of the Inspector-General of Ordnance and at book rates.

5. I would therefore ask for orders to be issued on the following points:—

(a) Whether I am at liberty to issue to the Mysore State Railway from the workshops such surplus stores and machinery as they may require at prices to be settled between the Executive Engineer, Workshop Division, Mysore State Railway, and myself.

(b) Whether similar permission may be granted to me in the Public Works Store Department, and how the difference in price is to be adjusted.

(c) Whether any reduction can be made in the price of the surplus machinery belonging to the Ordnance Department so as to enable the Mysore State Railway to take over at a fair valuation such articles as are not required by the Ordnance Department.

6. As soon as I receive orders I shall communicate with the Executive Engineer, Workshop Division, with a view to the early transfer from the workshops of all machinery and stores which are available.

7. For some time past I have advertised the fact that the workshop had surplus stores, chiefly through the Consulting Engineer for Railways; up to date, however, the sales have been small, owing probably to the low price of iron in England; now, however, that the price is rising, it is probable that more sales will be effected, especially if I am allowed to reduce the book rates in the case of all Railway Companies.

8. If the Workshop stores can only be transferred to the Public Works Store Department on the understanding that the assignments required on account of them will be covered by the sale of the useless machinery and plant belonging to the Public Works Store Department, I am of opinion that the transfer is impossible as the amount that would be realised by sale in the local market would be little over the price of old iron, and forced sales elsewhere either in India or England would involve the certain loss of the cost of carriage. The Workshop is not burdened with much surplus machinery; its difficulty is chiefly with the over stock of raw materials and manufactured articles, the transfer of which is impossible under the conditions stated above.

9. It may therefore be fairly assumed that the Workshop can look for no assistance from the Public Works Store Department if that branch is first of all to

free itself of its surplus machinery and plant, and in order to avoid any complication I propose for the remainder of this letter to consider the position of the Workshop only and to refer to the Public Works Store Department in another letter.

10. As no radical change can be made in the present system, it follows that comparatively moderate charges for work can only be attained by strict attention to the following points:—

1st, reduction of general charges;

2nd, reduction of stock by gradual transfers and sales;

3rd, total abolition of purchase or manufacture for stock;

and, as I have been well aware of this for some time, I have no doubt but that by degrees more moderate charges will be feasible.

11. With regard to the quantity of work executed in the Workshops, I think it would be advisable for all departments to be allowed to deal with private firms if they wish, as then it would be certain that no work was done in the shops except such as could not be satisfactorily turned out elsewhere; for I need scarcely say that the percentages charged are such as to put competition with a private firm out of the question.

12. After a year's work under these conditions it would be seen what concentration was practicable, and as the firms which would take up the ordinary work now carried out in the shops would require machinery and iron it is almost certain that they would largely assist in reducing the Workshop stock.

No. 11-A. From Lieutenant W. L. C. BADDELEY, R.E., Storekeeper of Machinery, to the Chief Engineer, Public Works Department, dated Madras, 17th March 1880, No. 115.

WITH reference to your No. 849, dated 15th instant, I have the honor to return the list of machinery with what I consider a fair price marked against the articles belonging to the Ordnance Department.

2. The other articles belong either to the late Mint or to the Workshops, and the prices could be reduced by arrangement between Mr. Rigg and myself.

3. It will be observed that I have made no alteration in the price of the Smiths' forges; these are quite new, whilst all the other articles are old.

List of Machines selected by H. Rigg, Esq., Executive Engineer, Workshop Division, Mysore State Railway, Bangalore.

Number.	Name.	Price.	
111	Slotting machine	Rs. 628	
40	Punching and shearing machine	1,728	
97	Ambidexter lathe	Rs. 300	
185	Six inches centre lathe for iron	Rs. 300	
183	Do. do. do.	Rs. 300	
180	Eight and a half inches do.	Rs. 450	
181	Do. do. do.	Rs. 450	
182	Do. do. do.	Rs. 450	
107	Gwynne's patent fan	Rs. 600	
38	Planing machine	Rs. 400	
62	Portable punching and shearing machines	Rs. 222	
...	Smiths' forges, each	1,100	
...	Semi-portable engine by Nasmyth or Gwynne	...	

MY DEAR SIR,—I AM SORRY not to be able to give you full information, but from the above you will see that the departments concerned have not replied to my inquiries.

Yours faithfully,
W. L. C. BADDELEY.

12th December 1879.

914-15
57

No. 11-B. From Colonel S. CHAMIER, Officiating Deputy Inspector-General of Ordnance, to the Chief Engineer, Public Works Department, dated Fort St. George, 13th May 1880, No. 1,277.

I HAVE the honor by order to acknowledge the receipt of your letter, No. 930, dated 22nd March last, and to inform you that the Inspector-General has no objection to the machinery referred to in the list sent by you being handed over to the Mysore State Railway; but the term "unserviceable" used in your letter, No. 690, dated 22nd February 1880, is not applicable. As they are not at present in use, the articles are either serviceable or repairable.

2. I may add that every now and then such articles as lathes are required by the Ordnance Department to replace lathes worn out or for some other work.

No. 12. ORDER THEREON, 7th June 1880, No. 1,333 W.

THE General Superintendent, Public Works Stores, is authorised to sell at the prices fixed by him to the Engineer-in-Chief of the Mysore State Railway the machinery, &c., belonging to the Ordnance Department in the list submitted and now lying idle in the stores. A sufficient number of lathes will be kept for use whenever required by that department.

2. The General Superintendent will report the result of the action taken by him on Chief Engineer's memorandum No. 654, of 26th February 1880.

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the General Superintendent of Public Works Stores.
" Examiner of Public Works Accounts.
" Military Department.

Exd. E. C. Shunker.
Spare Copies

GENERAL
ACCOUNT.

Govt. of 1880 Madras
PUBLIC WORKS.

To
THE GENERAL SUPERINTENDENT
OF PUBLIC WORKS STORES.

&c., &c., &c.

Dated June, 7th.

Issued

Recd.

Encl.

G. O., 7th June 1880, No. 1,333 W.

JUNE.
Nos. 11-12.

Machinery, &c.—The General Superintend-
ent, Public Works Stores, authorised to sell
the — in the list submitted by him belong-
ing to the Ordnance Department to the
Engineer-in-Chief, Mysore State Railway.

No 849 d/15 April 1880
9/14/25
58

Memo

In forwarding the enclosed
list of machines selected by Mr.
+ he returned Higg for the Mysore State Ry.
the undersigned has the honor
to request that the General
Supt. of P.W. Stores and Work-
shops will be so good as
to submit a list of the
machinery belonging to the Or-
dnance Dept. noting opposite
each what is considered
a fair value thereof

(by) R.M.S.

C.R.

The Genl. Supt. P.W. Stores.

(by) R.M.

No 690

Mr. Sept.

9/27/80

To The Superintendent of
Ordnance Magazine

Fort St. George
Dated Chennai 27th July/80.

Sir

As it is under contempla-
tion to dispose of to the
best advantage most of the
unserviceable machinery
& stores now lying in the
Mr. Workshops I have the
honour to enquire whether
any reduction can be made
in the price of the surplus
machinery belonging to the
Ordnance Dept. so as
to enable the Mysore State
Railway to take over at

a fair valuation such
Articles as are not re-
quired by your Dept.
I have for
1 Lt R. H. Sankey Col R. Co.
Chaplain W. Dept. H.

Mem 657-26-2-10 W

Mem 657-26-2-10 W

Ordnance Department.

ORDNANCE OFFICE:

Fort Saint George,

No. 7006

12 March 1880.

From

~~The Chief~~ Inspector General of Ordnance,
(In Charge of Office)

914-15
60

To

The Chief Engineer
Department Public Works
Chennai

Sir,

With reference to your letter no
690 dated 27th ultimo, I have the honor
to request you will be good enough to
favor me with a List of the Machinery
which you propose should be handed
over to the Mysore State Railway noting
opposite each item what is considered a
fair value thereof.

I have the honor to be,
Sir,

Your most obedient servant,

James Colclough
Inspector General
of Ordnance
(In Charge of Office)

No. 7006

From

The Insp. Genl. of Ordnance.
Admiral

To

The Chief Engineer
P.W.D. *Chapman*
15 MAR 1890

No.

Dated

12 } March 1890.

Received

Requests to be furnished
with a list of machinery
supposed to be handed
over to the Improvement
Railway -

See 690-27.2.90 + file

9/4/95
61
After the S.O.
as shown in pencil
and print room -

The Committee's
report on the
in fact -

S

No 654 d/ 26 Feb/ 1875

The of has the
honor to request
the Genl. Supt. C.W.
Mackay to send
as soon as possible
a complete list of
machinery, plant,
and surplus stores,
~~vide etc etc~~
concerning the
Eng. in Chief of
the Mysore State
Railway, asking
him what he
would be prepared
to take if
paid at fair
market value -

W.H. Mackay
Supt.

an amount which will

9/14-15
63

No 589- 21st July/80
Memo

With reference to the
no 3672 W of the 12th Dec 79
the U.S. has to forward
Dr. Budding copy of an
Ave note by the Examiners
of the 18th inst. also a
do by the Engrs. of the
State Railway of the 19th inst.

In transfer of Rs 1,27,554
of Workshop stores to the
P.W. Stores as suggested by
Dr. Budding would as
shown by the Examiners require
an appropriation of that
amount from the Prov. Budget
and transfer taken by itself
would be impossible as
matter stands

But as the decrease of
Stock is equivalent to
an increase of the Budget
Grant for the year it
remains to be seen whether
Sales of machinery and
other plant of all kinds
may not be expected to
an amount which will

practically cover the
assignments which would
have to be made in order
to carry out Dr. Boddley's
proposal - This is therefore
the problem which he
stated and endeavored to
solve

The list appended to
Mr. Riggs letter shows that
he would be prepared to
take over several of the
machines now lying useless
and he would doubtless be
prepared to give
fair market value for
much of the iron and possibly
also of the tools in which
these ^{are} ~~are~~ ^{in use}

There should also be a
provision for selling sales
of plant and stores in the
Indian market - namely
as in England - I.e. if
the Masmita hammers,
the stone crushing and
brick machines cannot
be sold in Calcutta, Bombay
or other Indian market.

9/14/15
84

they might be saleable
in England

In any case Dr. Boddley
should understand that
in order to offset the transfer
of State property in favor
of his letter under reference
must be in a position to
show how he can "pro tanto"
increase the Budget - part
by sales of machinery and
stores

The percentage charge on
the work turned out by the
shops covers among other
things depreciation of the
buildings and machinery
and as long as the capital
charge of these items remains
as it is the bills for work
turned out will be un-
-ceasingly augmented; it remains
therefore to see how this
item can be dealt with

The operations of the
shops probably reached
a maximum during the late
years of famine in addition
to which very large demands
seem to have been met on
account of the salt and other

other Departments - as
also an account of private
work

Most of the demands on
account of P.W. and other
Govt. Departments have now
ceased and it is extremely
questionable whether it is in
any way desirable the Government
should do ordinary job work
for the public and thus stand
in the way of private individuals
meeting the demands

Local Fund Boards are certain
to deal with private firms
if they have a chance and
Lund of firm at the head of
Govt. Departments have already
requested that they may
be allowed to deal elsewhere
than at the Shops

The time has thus arrived
when it will be well to
look fairly in the face the
fact that the workshops
are to turn out such work
for the P.W. Department as
cannot be done satisfactorily
elsewhere and nothing
more

In this view it turns at once

9/14/25
25

becomes subject of enquiry
as to whether the buildings
and machinery now main-
tained ^{not} are ^{not} as low as
necessary

Assuming that such is
actually the case, and that
all the needful work will
be done with half the building
and machinery at present
employed it will be only
right that some amount
should be come to by which
the Shops should be relieved
of the depreciation and
other charges due to the
ineffectiveness portion

It will be premature
to say now whether a
concentration of the character
will be practicable or
what the actual saving
will be likely to result
in but the subject is one
which Mr. Boddley must
~~and~~ carefully consider in
connection with the other
proposals in effecting a
saving in the working of
the Shops

If large sales of machinery

and P.W. Stores become
feasible, and if a sensible
concentration of work in the
shops also result in the
expected measures it might
be advisable to bring all
the plant and in the present
machinery stores into the
Work shops buildings but any
income available, and
sell the machinery store
buildings, Dyak, and at
the same time concentrate
and reduce the establishment
which will then be much too
large for general purposes.
An early reply to this
reference is requested.

20/2/80

To The Genl Suptt
P.W. Stores & Workshops
with 3 Enclosures

914.15
66

*Proceedings of the Madras Government, Public Works Department,
8th January 1869.*

No. 103. Read the following Proceedings of the Government of India in the
Public Works Department, (Account), dated Fort William, 23rd Decem-
ber 1868, No. 972 A:—

Account of the Government Workshops at Chepauk, Madras, for 1867-68.

Read again:—

Public Works Department Proceedings (Civil Works—Miscellaneous) June 1864, Nos. 10—12.
" " " (Establishment) October 1864, Nos. 23—4.

Read also:—

Letter No. 2,327, dated 21st July 1868, (and its enclosures,) from the Secretary to the
Government of Madras, in the Public Works Department.

Financial Department Memorandum, No. 1,430, dated 31st July 1868.

OBSERVATIONS.—The Governor General in Council observes that, when the
establishment for the Workshops at Chepauk was sanctioned in September 1864, it
was required that a report of the out-turn of work after the shop had been in
operation for a year should be submitted to the Government of India, *vide* Finan-
cial Order No. 2,250, dated 3rd September 1864, and Public Works Department
No. 903 E, dated 16th idem.

2. It appears, however, that the Workshop was not fairly started until the
1st of April 1867, and consequently the present account exhibits the result of the
operations of the year commencing with that date and ending with 31st March
1868.

3. The following table will show the amount of capital with which the
shop commenced work, compared with that at the close of the year:—

Capital.	Amount on 1st April 1868.	Amount on 1st April 1867.	Increase dur- ing 1867-68.	Decrease dur- ing 1867-68.
	RS.	RS.	RS.	RS.
Block	70,857	73,810		2,953
Machinery	58,321	60,116		1,795
Raw material	893	2,889		1,996
Mechanical Department	5,035	2,057	2,978	
Instrument	3,415	2,691	724	
Bills receivable	14,592	6,899	7,693	8
Cash in hand		8		
Total	2,53,113	1,48,470	11,395	6,752
Less Bills payable	4,015		4,015	
	1,49,098	1,48,470	7,380	6,752
	1,48,470		6,752	
Net increase to capital during 1867-68	628		628	

4. The net increase to capital of Rupees 628 shown in the preceding table
has been debited to the Public Works Budget grant of the year. This item calls
for no special remark. But information is required as to how the figures
entered in the second column, and representing the capital on 1st April 1867, have
been arrived at, and whence they have been obtained, and it is requested that this
may be furnished as early as possible.

*Proceedings of the Madras Government, Public Works Department,
8th January 1869.*

5. The expenditure incurred during the year amounted to Rupees 91,994, as follows:—

Raw materials	...	...	...	...	...	Rs.	Rs.	Rs.
Mechanical Department	...	...	...	...	...	38,239		
Instrument	...	...	...	...	...	30,753		
	...	...	...	...	...	13,887		
Add cost of Supervising Establishment	...	...	...	...	...	82,879		
	...	...	...	...	...	9,118		
Less recoveries from fines	...	...	...	...	...	91,997		
To which add balance on 1st April 1867 of works done in previous years and remain- ing unsold, viz.:	...	...	...	...	...	3	91,994	
Raw materials	...	...	...	...	...	2,389		
Mechanical Department	...	...	...	...	...	2,057		
Instrument	...	...	...	...	...	2,691		
The credits for work done amounted to Rs. 1,04,235, as shown below, viz.:	...	...	...	...	...		7,627	99,631
Government	...	...	...	...	...			
Private parties	...	...	...	...	...			
Madras Railways	...	...	...	...	...	97,089		
Irrigation Company	...	...	...	...	...	2,075		
Municipal Commissioners	...	...	...	...	...	638		
Amount expended on machinery and adjusted as an increase to capital	...	...	...	...	...	350		
	...	...	...	...	...	182		
	...	...	...	...	...	2,051		
Add value of goods remaining unsold on 1st April 1868	...	...	...	...	...		1,03,235	
Raw materials	...	...	...	...	...	893		
Mechanical Department	...	...	...	...	...	5,065		
Instrument	...	...	...	...	...	3,415		
	...	...	...	...	...		9,343	
So there has been a gross profit of	...	...	...	...	...			1,12,628
	...	...	...	...	...			12,997
* Depreciation charges...	Rs.	...	...	...	...			9,855
Bad debts and losses on manu- facture	...	8,964	...	...	...	891		
	...	...	...	...	...	9,855		
Of this profit as per margin* has been applied to meet depreciation charges of Block and Machinery, and covering bad debts and losses on manufacture, leaving the net profit to be	...	...	...	...	...			3,142
or 2.11 per cent. of the capital, Rupees 1,48,470, with which the shop opened on 1st April 1867.	...	...	...	...	...			

6. But it will be observed that in the accounts rendered, no credit has been afforded to Imperial Revenue on account of interest on capital as required by the system of account laid down for such establishments. This, at the usual rate of 5 per cent., would amount to Rupees 7,423, and until the shop can be made to pay interest at this rate in addition to all other proper charges, it cannot be said to be working satisfactorily. This omission of this item from the account appears to have been authorized by the Government of Madras in their Proceedings of 24th January 1867, No. 242. The reason for this, as also for the omission of the charges on account of the salaries of the Superintendent and of the Mathematical Instrument-maker authorized by the same Proceedings, should be stated for the information of the Government of India. It should also be explained how these charges are at present dealt with. For the future it would be desirable, in order to ensure uniformity in the method of estimating the charge against the Budget Grant, for Workshops, to include these charges, as well as the charge for interest, in the account, which otherwise will be incomplete, as the present account is, owing to the omission of these charges.

*Proceedings of the Madras Government, Public Works Department,
8th January 1869.*

7. With reference to the entry (noted in the margin) in Statement H. of the Report, explanation should be furnished as to the nature of the transaction which has necessitated such an entry being made in the books of the Workshop, the rule being that all materials supplied to the Workshops from other Government Departments should be paid for in cash.

ORDER.—Ordered, that these Observations be forwarded to the Government of Madras for information and guidance.

Ordered also, that a copy, together with a copy of the Report reviewed, be forwarded to the Financial Department for information, with reference to Office Memorandum of that Department, No. 1,430, dated 31st July 1868.

(Signed) C. H. DICKENS, Colonel, R. A.,
Secy. to the Govt. of India.

No. 104. ORDER THEREON, 8th January 1869, No. 52.

ACCOUNT, No. 5.

Communicated to the Controller of Public Works Accounts, who will submit explanations on the points noticed by the Government of India, and arrange with the Officer in charge of the Store Department for carrying into effect the instructions in paragraph 6.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Controller of Public Works Accounts.
.. Officer in charge of Store Department.
.. General Superintendent of Public Works Stores and Workshops.

Exd. S. T. Augustin.

Govt. of [1869] Madras

PUBLIC WORKS

To

THE CONTROLLER OF PUBLIC WORKS

ACCOUNTS

Dated January, 8th

Recd.

Encl.

G. O., 8th January 1869, No. 52.

JANUARY.

Nos. 103-104

Accounts of the Government Workshops at
Chepauk, Madras, for 1867-68. — Proceedings
of the Government of India regarding the
accounts of the Government Workshops at
Chepauk, Madras, for 1867-68, communi-
cated to the Officer concerned with instruc-
tions.

No. 737 W.

PRESIDENCY PUBLIC WORKS WORKSHOPS,

Madras, 21 June 1880.

Recd. 24th Do

From

THE GENERAL SUPERINTENDENT,

PUBLIC WORKS WORKSHOPS,

To

The Chief Engineer
P.W.W.

9/10/80
28

SIR,

Enclosures.

With reference to the 2nd para of G. O. of 4th June 80
N^o 1333 h. I have the honor to report that up to
date, no large sale of Surplus Stores &c. belonging to these
Workshops has been effected with ^{the} Mysore State Railway.
2. Mr. Pegg who has lately been acting Engineer
in Chief has on several occasions, visited these Workshops
and he is well aware of its resources, so that it is probable
that some sales may be carried out during the present year.

I have the honor to be,

Sir,

Your most obedient servant
The Controller, P.W.W.
Genl. Supt. P.W.W.

Presidency P. W. Workshops.

25 JUN 80

From

No. 10

The General Superintendent,

P. W. Workshops,

Madras,

To

The Chief Engineer

Madras

No. 737 hr

Dated 21

Despd. 21

Received

June

1880

ENCLOSURES.

Subject.

Reports that up to date no large sale of surplus stores of this Factory has been effected with the Mysore State Railway

Ch. Lodged

P.W. 4 April 191

L to G 14

8886 - 6280

No 86 9/14/89

R. N. 3900/77

C

Please let me have your opinion as to the feasibility of the several proposals made by the General Superintendent P. W. Workshops in para 8 of his No 3672 W of 12 Decemr (herein) and particularly the financial effect, if any, of the transfer suggested under the 1st head of Raw materials and manufactured articles amounting Rs 1,87,854 to the present stock in the P. W. Stores. Would this transfer affect the Budget of the year in which it might be made? Much of this stock

might it is believed
be sold or otherwise
disposed of with no real
detriment

Could we write off
the whole of the book
value of such articles
to Profit & Loss (less
Sale value received)
and relieve the Capital
Account by the aggregate
amount?

Alth

6/2/20

TO W.

OBSERVES AS FOLLOWS IN RESPECT

TO THE ABOVE :-

PARA 8

I. SUCH MATERIALS AND
MANUFACTURED ARTICLES AS CAN BE
UTILIZED BY THE STORE DEPARTMENT
MAY BE TRANSFERRED TO THAT DEPART-
MENT AND THE REST DISPOSED OF BY
PUBLIC AUCTION, ANY DEFICIT BE-
TWEEN THE BOOK VALUE AND THE SALE

9/14/20
70
PROCEEDS BEING DEBITED TO PROFIT
AND LOSS. TO MEET THIS TRANSFER,
FUNDS SHOULD BE PROVIDED IN THE
BUDGET.

2. THE RATE VIZ. 5 PER CENT AT
WHICH THE ITEM OF INTEREST IS
CHARGED WAS FIXED BY THE GOVERNMENT
OF INDIA IN G.O. NO. 52 DATED 8TH.
JANUARY 1869 WHERE IT IS ALSO ORDER-
ED THAT IT SHOULD BE CALCULATED ON
THE OPENING CAPITAL. THE SAME RATE
IS APPLICABLE TO THE OTHER WORK-
SHOPS, SO THERE DOES NOT APPEAR TO
BE ANY GOOD REASON FOR APPLYING FOR
ANY MODIFICATION IN THIS MATTER.

3. IT IS AN ESTABLISHED PRINCIPLE
THAT THE DETERIORATION IN BUILDINGS
AND MACHINERY SHOULD BE MET FROM
PERCENTAGES CHARGED ON WORKS. AC-
CORDINGLY IT IS NOW PROVIDED FOR IN
THE PERCENTAGES CHARGED ON WORKS
EXECUTED BUT NOT SEPARATELY DEALT
WITH IN BILLS AS THE GENERAL SUPER-
INTENDENT APPEARS TO STATE.

4. THE RATES OF PERCENTAGE
SHOULD VARY, IF NECESSARY, EVERY
YEAR, BEING CALCULATED TO COVER
SIMPLY GENERAL CHARGES, DEPRECIATION
AND INTEREST. THIS COURSE SHOULD

LEAVE A SMALL MARGIN FOR NET PROFIT BUT NOT TO SUCH AN EXTENT AS HAS HITHERTO BEEN THE CASE. THE SCALE OF PERCENTAGES LAID DOWN IN STATEMENT B MAY BE REDUCED IN PROPORTION TO THE REDUCTION IN THE GENERAL CHARGES.

5. THE MODIFICATION REQUESTED BY THE GENERAL SUPERINTENDENT IN REGARD TO DEPRECIATION AND INTEREST IS NOT NECESSARY SO LONG AS HE CAN AVOID CHARGING HEAVY PERCENTAGES AND THIS SHOULD BE POSSIBLE BY MAKING OVER THE HEAVIEST ITEMS OF CAPITAL, VIZ. RAW MATERIALS AND MANUFACTURED GOODS TO STORE DEPARTMENT, BY AVOIDING ACCUMULATION OF STOCK IN FUTURE, BY KEEPING DOWN THE CHARGES ON ACCOUNT OF ESTABLISHMENT, REPAIRS OF MACHINERY AND TOOLS ETC, AND BY CALCULATING THE RATE OF PERCENTAGES SO AS SIMPLY TO COVER GENERAL CHARGES, DEPRECIATION AND INTEREST, WITHOUT GIVING A MARGIN FOR LARGE PROFITS AS HAS BEEN THE CASE HITHERTO. THE PROFIT AND LOSS ACCOUNT SHOWS THE EXTRA PROFITS AS BEING NEARLY HALF AS MUCH AS THE AMOUNT OF THE ORDINARY

24-15-18
PROFITS, HENCE THE SMALL NET PROFIT EVENTUALLY SHOWN CAN ONLY BE DUE TO THE HEAVY CHARGES ON ACCOUNT OF INTEREST, REPAIRS TO TOOLS AND PLANT, STOCK ETC.

THE SUPERINTENDENT'S PROPOSAL MIGHT BE ALLOWED A TRIAL IF IT IS DECIDED THAT THE WORKSHOPS ARE TO GO ON, BUT GREAT CARE WILL BE REQUIRED IN FUTURE, ONLY TO GET SUCH MATERIALS & STORES AS ARE ABSOLUTELY NECESSARY FOR THE WORK IN HAND. IT SHOULD MOREOVER BE DISTINCTLY UNDERSTOOD THAT THE PRESENT TRANSFER OF SURPLUS MATERIALS ETC TO STORES IS PERMITTED AS AN EXCEPTIONAL CASE; FOR, IF OFTEN ALLOWED, THERE WILL BE A TENDENCY TO STIMULATE THE MANUFACTURERS IN THE SHOPS AS THE PROFITS WILL GO TO THEIR CREDIT, WHILE THEY WILL NOT BE BURDENED WITH THE UNSOLD OR UNSALEABLE ARTICLES MANUFACTURED & TRANSFERRED TO STORES.

19/2
OFFG.C.

22 500

9/14/85
72

I have gone as carefully
as I could through
these several recommendations
with the E. I. committee
and noted roughly
in pencil (to be cleared
off) the decision to
be embodied in the
order which I shall
feel much obliged to
you having now drafted.

If the Report is printed
the order may in fact
be very brief as it will
suffice to lump together
all the recommendations
that have been approved
of unreservedly.

The last clause of the
order should run
Submitted thus

The Committee approved
by 50

completing to a
satisfactory con-
-clusion the labour
expending into which
they were charged
the Govt. desire to
place on record
their appreciation
of the way through
a satisfactory manner
in which they have
discharged the
duty assigned
to them

I should like
if possible to
have the draft
order ready in
my initials on
forenoon of 1st prox
I have early
as 2nd prox
30/3/82 Att

8119 95/85
is no longer required at Raja-
mundry by the Military Department,
and as she was condemned nearly
4 years ago, the Committee recommended
that she be sold at an early opportunity.
Again as the vessel was ordered to
be sold by the Marine Department,
in February 1877, and her maintenance
was made chargeable to Port funds,
the Committee are of opinion, that the
present charge and arrangements for
sale should be in the hands of
the Marine Department.

The Prince was originally charged
to general Plant, and the sale proceeds
will be credited to the Revenue
Account Tools and Plant-Productive
Public works. Godavary Delta.

If Colonel M's remarks para 4 is correct
the sale proceeds will belong to the Upper
Godavari works.

The Master Attendant by late order
I think the Prince has to be taken over the
earliest as early as may be feasible went
on to Coconada where the repairs
will be estimated by the Marine Dept in
view to early sale by the Master Attendant
Special order will be needed but here it
will suffice to approve generally of the sale
subject to these orders

Dowlaiswarum Workshop

The Executive Engineer in charge of the Workshop considers that there is no stock in excess of requirements. The Value of the stores in hand on the 31st October 1880 was.

Stores	43,450-3-8
Timber	21,311-11-9
Manufactured Articles	4,742-5-3
Total	69,504

The average value issues during the last 3 years has been

Stores	28,498
Timber	18,260
Manufactured Articles	11,527
Total	58,285

The Superintendent of works also states that there is no unnecessary stock in hand. But the above figures show that while the manufactured articles have been brought down to less than a half year's issues, there are still stores of

last for 18 months, and timber for 14 months.

The Committee are of opinion that

endeavours should be made to keep the Value of stores in hand within 30,000 Rs.

A large stock of timber is essential in order to meet the requirements of the workshop. It is suggested that the value of the stock should be kept down to Rs. 30,000. The Committee are of opinion that the value of the stock should be kept down to Rs. 30,000. The Committee are of opinion that the value of the stock should be kept down to Rs. 30,000.

12 Godavery Western Division

The stock return shows only some building materials the value of which is less than 1000 Rs.

No return

Godavery Eastern Division

13 The stock in hand on the 30 Sept/80 consisted of.

Materials at Dowlaiswarum	Valued at	10,971-9-7
Stores at Durnagadim		38,529-5-1
Stores kept at the Sappers Cantonment		13,563-14-7

Rs. 63,064-13-3.

21/20
The total amount standing in the
Examiner's books to the debit of the Division
is Rs. 94,565-11-7 and the Executive Insp.
explains that the difference of Rs. 3,1500-16-4
is the amount of stock manufacture
and carriage which has not been
included in the Stock Register.

The stores at Durgam Cheruvu have
been dealt with under the head of
Upper Gadaveri, and deducting their
value from the total debit, there
remains the sum of Rs. 58,036-6-6 as
the book value of the stock in hand.

The stores in the Sappers Canton-
ment, consist chiefly of metals valued
at upwards of Rs. 11,000; while the value
of small stores is Rs. 2,185. The Committee
consider that whereas there are large
stores in the workshop close by, these
items are not necessary.

and that the
manufactured articles of the value of
Rs. 3,500 are much beyond the requirements

21/21 9/4/95
The issues in the past year have
been to the value of Rs. 34,618, and while
there appears to be the need of keeping
in hand a considerable supply of stone
and other materials at Daulaishwarum,
the Committee think that the value
of stock in hand ought to be brought down
to Rs. 20,000. The large balance under
the head of manufactured articles may
be reduced, by suspending further
manufacture until the reserve limit
is attained.

No metals not required in
the shops shall be retained
arrangements being made for sale
of the rest in current year - and
of outright sale early next year
if any remains - Stone of all
kind & limestone to be alone
retained in such quantity as
may be decided to be essential
by the S & W

14. Kistna Western Division. 9045
88

There is no stock.

Kistna Eastern Division.

The stores of the Kistna Workshop have recently been amalgamated with those of the Eastern Division. The Executive Engineer reports that the stock in hand on the 30th Sept. 1880, was of the value of Rupees. 58,695-00 and the value of manufactured articles is given as Rs. 19,940-00

Total Rupees. 78,635-00

The Superintendent of Works has stated that he thinks there should be a maximum reserve of about Rs. 48,000, arrived at thus.

Small Stores	1000
Building materials	5000
Timber	20,000
Metals	9,500
Miscellaneous	4,500
Manufacture in Workshop and Quaries & Kilns	8,000
	<u>48,000</u>

The average value of issues during 2 years is given by the Superintendent of Works as Rs. 5046 per month, while

MP 26
The value of the balance of Stock on the 1st October 1880 was Rs 58,695, or, nearly 12 months supply - But while the Stock balance in hand of some items is moderate, in others it is very high; thus,

There is a supply of Small Stores for 18 months

Timber — 21. 6

Metals — 28. 4

Painters Stores — 21. 2

The Superintendent of works proposes to retain stock articles to the value of Rs 43,468, to be used up within the next 18 months, and to dispose of articles to the value of Rs 15,227. The Executive Engineer's list dated the 24th December 80, shows the proposed method of dealing with Stock; viz some items to be sold locally at Bigwada, and other items to be sent either to Dowlaishwaram or to Madras.

As there are already more Stores than are wanted at Dowlaishwaram, the Committee are of opinion that the superfluous Stock at Bigwada, should be sent to Madras to the P.W. Stores for disposal. The enclosed list shows

MP 25
that the book value of these Stores is Rs 13,488-10-7. 914-5/89

The same list shows various articles which may be sold at Bigwada their book value being Rs 1738-14-10. These Stores have all been purchased on the general Stock account, and thus the loss by sale will have to be charged to Profit and Loss.

15. The Executive Engineer has furnished another list, enclosed, dated the 7th January 1881, of Machinery and Tools and Plant that are not required in the Division. The list contains 12 items that may be sold on the spot; 22 items that cannot be disposed of locally; and 2 items of wagons, of which a pair can be kept, and the rest should be sent away.

The Superintendent of Works recommends that the old cast iron articles should be sent to Dowlaishwaram for the Foundry. There are old machines, blocks, bog wheels &c, which will not be used where they are, and are not likely to be sold there.

A good deal in the way of superfluous machinery, and plant is proposed

to be offered for sale in the Godavari District; and the Committee think that it will be preferable, to send the stores by Canal, to Madras, to be disposed of by the General Superintendent of Public Works Stores.

The items in this list have already been charged to works, and the sale proceeds will be credited to the sources, from which payment was originally made; if from Revenue credit will be given to Tools and Plant, and if from Capital, to Receipts on Capital Account.

On the subject of ^{the} Stock reserve the 16 Superintendent of Works writes, that though the amount set down by him for timber is high; viz Rs 20,000, his reasons are that as a rule there are no local markets; that when required, a year's supply would have to be brought at Coconada or Coringa, and it might happen that the annual supply could not be got round before the closing of the canals in March. A good stock of large timber is required for heavy works such as lock gates; and inconvenience

will occur if the Stock is kept too low. Upon this explanation, the Committee are of opinion that a liberal margin, may be necessary in calculating the limit of the general reserve stock; but they still think that this should not be set down at a higher figure than Rs 20,000.

Proposals approved and announced being made by sale of all surplus stores in at Madras in current year, on next date to be selected to after that ~~year~~ ^{year}. Store's equilibrium value to be retained till further orders.

The maximum reserve of Rs 48,000 to be attained by end of possible of current year - or at furthest by 1st August 1882

D. w.

What advance has
been made in regard
to the disposal of
acknowledged useless
stones in both the
P.W. Stones, and the
F. S. George Stones?

If no action has been
taken the attention of
~~the~~ Officers concerned
should be drawn to
the previous correspondence.

With the P.W. Stores
and Workshops so
close it is only a
needless expense
keeping up separate
Establishments

to be allowed 1/26

1/2
9/14-15
7/19
Report of the Committee ap-
pointed by G. O. N^o 2276 W.
of the 1st October 1880, to in-
vestigate and report upon the
superfluous stock in the hands
of the Public Works Department &c.

914-15
75

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

1st October 1880, No. 2,276 W.

General.
Account.

Read the following paper: —

No. 3. *Note by the Chief Engineer, Public Works Department.*

A REFERENCE to the annexed files will show that strenuous measures have been taken to reduce superfluous stock in the several Public Works divisions, but there is still a very unsatisfactory state of matters in connection with—

- (1) the several workshops at the Presidency, Dowlaishweram and Bezváda;
- (2) the gas and pier stores in Fort St. George;
- (3) useless steamers, such as the *Prince*;

in regard to one and all of which it may be said that, whereas much of the stock is quite useless and can only deteriorate, expense has to be incurred year after year in taking care and accounting for it.

2. In both these respects therefore useless outlay, chargeable chiefly to Provincial, is being incurred.

3. At the same time the present more active state of the market, compared with the state of matters for the last few years of general depression, holds out some hope that a fair value may be realised for stores that it may be considered desirable to sell off, and the time appears therefore favorable for carrying out some general measure that will have the effect of affording the needful relief, in fact of giving a fresh start.

4. In reference to heading (1) above it will be noted from Major Trail's report on the Presidency Workshop, dated 20th December 1879 (not yet disposed of), that matters here are in anything but a satisfactory state—

1st.—Owing to repairs, &c., which were not duly authorised to the Presidency Workshop machinery, a considerable increase was apparently made by Mr. Faulkner to the Capital outlay and which has to be provided for in the budget.

2nd.—There has been by the same officer and Mr. Grainger a large over manufacture of articles which, having to be kept in stock unissued, run up the Capital sunk and interest charge.

3rd.—There are excessive balances of coal and coke which have the same effect.

5. Bills for all work done at the shops are thus over-weighted to cover the cost of establishment and especially the interest on locked up capital. Even in the matter of ordinary tools, Major Trail shows that, instead of as formerly issuing such to the department at the lowest price from the Public Works Stores, the articles are procurable from England; the workshop has raised the price all round some 50 per cent., and in some cases very much more.

6. The whole of these extra charges are fictitious and come eventually against "Provincial."

7. The Dowlaishweram shops are similarly over-weighted by capital charges due in great measure to a large and useless quantity of plant having been transferred to them from the Upper Godavari Works, &c.

8. In addition also to the questions arising out of the overburthened state of the several workshops mentioned, there are others of a no less important character connected with stores of various descriptions which, though quite useless and deteriorating, have to be cared for at no small trouble and expense.

9. In the Public Works Stores there are, in addition to useless wheelbarrows wood-planing machines and other articles, large quantities of materials, chiefly iron which could now probably be sold fairly well.

10. The machinery store also contains a mass of useless Mint stores, a huge steam-hammer that will never be employed, &c., all of which are little less than lumber.

11. In the Fort St. George stores there are collections of gas fittings connected with the projected arrangement for lighting up the Fort buildings, which in the present collapsed state of the project, and with recent improvements which are being rapidly made in regard to lighting in Europe, make the retention of such stores only an useless encumbrance.

12. Here also are old stores of the Madras pier works and numerous other collections of an equally useless character.

13. In connection with this general question may also be noted the large number of famine tools stored in various parts of the Presidency, which to a great extent only occupy store rooms which could be turned to other purposes and cause continued trouble and expense in enumerating and accounting for.

14. There is also, as adverted to under head (3) at starting, a question connected with the Steamer *Prince*, and, it is believed, another vessel which should be inquired into as they should certainly be disposed of.

15. For the above reasons I would now beg to suggest, for the approval of the Government, the assembling of a Committee composed as follows:—

PRESIDENT.

Colonel H. L. Prendergast, R.E., Superintending Engineer, First Circle.

MEMBERS.

Major D. H. Trail, R.E., Examiner of Public Works Accounts.
Major J. Pennycuik, R.E., Deputy Chief Engineer and Under Secretary.

to inquire into the several matters above adverted to and advise regarding the steps which it would seem best to take in order to place matters on a satisfactory footing. It is specially desirable that they should report their opinion before the framing of the Provincial Budget, as it will possibly be necessary to provide therein for some of the losses which may have to be sustained in the necessary "book" adjustments, though as the proceeds of the sales will go to General Revenue there must of course be an immediate gain to the cash balances in addition to savings of an indirect character that will more than compensate for any loss.

OOTACAMUND,
21st September 1880.

(Signed) R. H. SANKEY, Col., R.E.,
Chief Engineer, P.W.D.

No. 4.

ORDER THEREON, 1st October 1880, No. 2,276 W.

THE Government resolve to appoint a Committee, composed of the officers hereafter mentioned, to examine the questions raised in the Chief Engineer's note, and to report how the superfluous stock in the Public Works divisions can best be reduced.

PRESIDENT.

Lieut.-Colonel H. L. Prendergast, R.E., Superintending Engineer, First Circle.

MEMBERS.

Major D. H. Trail, R.E., Examiner of Public Works Accounts.

Major J. Pennycuik, R.E., Deputy Chief Engineer and Under Secretary to Government, Public Works Department.

2. The Committee will be convened at such time as the President may direct. They will be authorised to call on the officers in charge of the several workshops, &c., to supply such returns and information as may be necessary to the object in view, and the Master Attendant and the Superintendent of the Gas Works, Fort St. George, will be desired in the Marine and Military Departments to afford such assistance as may be in their power to the Committee in their inquiry.

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Lieutenant-Colonel H. L. Prendergast, R.E., with file of original papers.
" Major D. H. Trail, R.E.
" Major J. Pennycuik, R.E.
" the General Superintendent of Public Works Workshops and Stores.
" the Superintending Engineers.
" the Superintendents of Works.
" the Marine Department.
" the Military Department.

Exd. W. J. Lewis.
Spare Copies



GENERAL
ACCOUNT.

Gobt. of [1880] Madras
PUBLIC WORKS.

To

Lieut.-Col. H. L. PRENDERGAST, R.E.

&c. &c.

Dated October, 1st.

Issued

Recd.

Encl.

G. O., 1st October 1880, No. 2,276 W.

OCTOBER.

Nos. 3-4.

Superfluous Stock in the Public Works Divisions.—Appointing a Committee to examine and report how the — can best be reduced.

First Circle. *W 2*

9/15-25
4/6

Vizagapatam Division

The value of articles on the Stock Register has already been reduced to Rs 712, and out of this, the value of asphalt is Rs 593.

The Committee recommended, that as has been proposed by the Executive Engineer, the asphalt be charged at its book value to the Still-fail works at Parvatipur. Upwards of 4 Tons will be used there, at a cost of Rs 488, and there will remain in store a little over 1 ton to the book value of Rs 105, to be charged to works hereafter as the supply may be used up.

2

In August last, the Superintending Engineer directed the sale of articles of Stock in the Ganjam District—these were small stores, metals, some wood and bamboos, painters stores and miscellaneous articles that had been lying by, for some years, and were useless or not likely to be issued to works. The book value of the

the Stock was Rs 3656-14-10; and the loss by auction sale has been Rs 1678-0-1. The various articles had been purchased on the Stock account, not for any specific works - and the Committee recommended that the loss on the sale, may be written off to profit and loss.

Guddapah Division.

In the Bellary District, Stock has been ordered to be sold, to the value of Rs 2005-12-11; there remains only one item Rs 153-9-8 the value of Fuzze which is not wanted, and is unsaleable at Bellary.

The Committee recommended that this Fuzze be sent to the P. W. Stores at Madras, to be disposed of there.

In the former Ananthapur Division, there are wooden doors and windows, that have been on hand for some time, to the value of Rs 2621-4-4. The Superintending Engineer has kept these articles, to see whether the Sub-Magistrate's Futcherry at Bookapatnam will be sanctioned in the year 1881-82.

Unless

Bookapatnam
Futcherry is not
sanctioned for by
1st August 1881
doors & windows
to be sold as
proposed

If the amount of
Rs 153-9-8 is found
to be unsaleable
it will
probably be required
then.

Sale approved

Unless the stock can be transferred to this work, there is no prospect of the articles being turned to account; and the Committee recommended that provided there is no entry in next year's Budget for the Bookapatnam Futcherry, the stock should be sold by auction.

In the Kurnool District - Stock to the value of Rs 1545-7-1 has been ordered to be sold - and the Committee recommended the further sale of wood work prepared for a Futcherry to be built at Kurnool, as there is no likelihood of the articles being utilized for a long time to come. The book charges of these articles are Rs 1493-0-6, and there will remain only the sum of Rs 151-8-5 on the Stock Register for the Kurnool District.

In the Guddapah District - there is no stock.

Nellore Division.

Retain the
iron posts for
minor irrigation
works for 30
I think these posts
should not be broken
up & melted. The
value of cast iron
used in iron small
the posts can be utilized for minor irrigation works

The value of stock in hand on the 1st of September last, was Rs 3567-13-6. The Executive Engineer has proposed to send to Madras some iron posts to be melted, they are called iron Calingula posts and are valued at Rs 807-7-3 - but as calingulas have been given up, the posts

posts are of no use. There are graduated strips of papers meant to be pasted on levelling staves; these being obsolete, the Executive Engineer proposes to destroy them - the book value is Rs 6-4-7. There are 2 Items viz: glass tubes and steam gauges Rs 101-1-0, and leather belts Rs 45, which the Executive Engineer would transfer to another division, as there is no probability of their being used at Mellose.

The Committee recommended that these articles be sent down to the P. W. Stores at Madras, for disposal excepting the useless paper scales.

The Superintending Engineer lately authorized the sale of articles entered as of the value of Rs 2263; but as yet those of the book value of Rs 1303 have been sold, leaving the sum of Rs 960.60 cleared off. The value of stock will then become reduced to Rs 1648.

There are some tons of old and useless cast iron truck wheels at Mellose that have been charged to the Mellose works. Correspondence has been lately on with a view to the Superintendent

should be sent to Madras for disposal

of the work shop at Madras, taking over the wheels as old iron.

7 The wood work that has been sold in the Kurnool District was made up for a Talook Cutcherry at Nandial; the building has not otherwise been begun, but an Estimate will shortly be submitted for sanction. The Committee recommend that the loss by sale of the materials that were made up 10 years ago, be charged to this future Estimate.

The materials for Barracks at Bellary were ordered to be prepared on the Stock Account in G. O. No 2261 and 2274 of the 24th and 25th Sept/72, but further Barracks accommodation has not been required, and is not likely to be called for, and no Estimate has been made.

The other wood work at Anantha-pur and Kurnool was made up in anticipation of Cutcheries being built

Sanctioned by Government in August 1881 and to be sold by Committee off to benefit & loss

2 tons sold similarly & charged to account

destruction approved

approved

DO

SP 7
but the buildings have not been commenced,
and there are no estimates framed for
them.

The committee therefore are of
opinion that the loss by sale of
these building materials, and of the
two useless items in the Neuse
Division must be written off to
Profit and Loss—

afternoon

Upper Godavari. Abstract of lists of Articles, at Damungudi, and of the proposed distribution of them.

Description of Articles	To be kept at -		To be taken to Dowlaiswaram.		Remarks.
	Quantity	Value	Quantity	Value	
Leat. No. 1	3	7	3	21	14
Small stones	17	539.7.8	28	3767 13.3	6 174.9.1
Building materials	1	160.3.11			
Timber	1930.0.9	11210.0.0			3860.
Metals	500.	11. 10758.12.2	11		3 1109-8-8
Miscellaneous	7	79-5.11	11	101.4.0	2 4344-1-4
Leat. No. 2	16	2.57			3 33-0.0
Survey & Mathematical instruments	19	6451	17	3642.0.0	1 350.
Machinery	6	715	2	100.	5 509.0.0
Floating stock	1	400	4	1416	1 100.0.0
Rolling stock	66	1292.5.0	61	3169.1-9	
Tools	18	408.8.0	1	40.	21 692.0.0
Furniture					692.0.0
London stores			2	11910	
Leat. No. 3.					
Machinery			2	60.	1 50.
Tools	3	14-0.0.0	5	54	4 53.
Rolling stock			2	184	
Small stores			10	471.	
Furniture and fittings	2	6.	3	203.	1 5.
Total	12746-15.3	47094 15.2		5618.10.5	5561-8-8.
To be sold		Rs. 52713			
To be kept	Rs. 18.408.		Rs. 71121.		
			Rs. 295.		
			Rs. 71416.		
					Value of instruments to be sent to Madras.
					Total.

910-15.
80

vide G.O. No. 13574-2 of 30 Aug/10 (C.O. 316 of 11)

9/14-15/81
Upper Godavary.

8 The Superintendent of Works sent with his letter No. 2120 of the 20th Sept. 1880 three lists of articles of all kinds lying at Dummugudem. Mr. Welch proposed to keep there a certain quantity of Machinery and stores; to sell a portion on the spot; and to remove the rest to Dowlaiswaram.

Mr. Welch proposes

1. to sell at Dummugudem or to keep for transfer to any M. Division that may make application, the Machinery not required for the works at Dummugudem; and to advertise the Machinery for sale, there; as it would not pay to send the Machinery to Calcutta or elsewhere by sea

2. to keep at Dummugudem the Survey and Mathematical instruments that are wanted there; to send a few to

AP 10
(Dowlaiswarum, and the rest to
the M Stores at Madras.

3. to sell at Dummugudem, 2 wooden
flats, that are in bad order, to keep the
boats and punts that are wanted on the
works, and to transfer 1 jolly boat to
Dowlaiswarum

4. to keep at Dummugudem one
Cart gun carriage, to sell the others,
and to sell or transfer 200 tram way wheels.

5. to sell a portion of the timber at
Dummugudem, to keep there for
use a small supply, and to remove
the rest to the Dowlaiswarum
Workshop on the terms laid ^{down} in G.O.

No. 3153 W. of the 5th August 1878.

6. to sell nearly all the metals at
Dummugudem keeping a reserve
there, and sending a small supply

to Dowlaiswarum

7. to keep a portion of the small

AP 11 21/8/87
stores and miscellaneous articles at
Dummugudem, and to sell the remain-
der there.

The Committee have referred to
Mr. Walch, for some further details,
of his intended distribution of the
stores; and some slight modifications
have been made. The result is shown
in the enclosed abstract statement, which
gives the number of items with their
value, to be kept and sold, in separate
columns for Dummugudem and
Dowlaiswarum

The Committee recommend
that the Government property be
disposed of, as shown in this abstract,
whereby, articles of the book value
of Rs. 52,713 will be sold, as sur-
plus or not in good condition;

articles

AP 12
articles valued at Rs 18,408 will
be kept, those to the value
of Rupees 12,747 at Dammugudicem,
and of Rupees 5661 trans-
ferred to Dowlaiswaram.

Of the stock kept in hand,
there is machinery valued
at Rupees 6,960, and timber
valued at Rupees 5,790, so that
the value of tools, floating stock
and other stores to be retained
at Dammugudicem will
be brought down to Rs 4,405.

The Committee are of opinion that
the loss of sale of machinery, float-
ing stock, Rolling Stock and
London Stores, should be charged

Proposals
approved
in remarks
in para 2 of his
memo of 17/3/81
of disposal to
be complete at close
of 1881/82
to be retained
entirely of
1882/83

AP 13 9/14/83
to works; and that the Superintendent
of Works should specify the Estimates
to which the charges of loss shall
be debited - after ascertaining as far
as possible, for which specific works
the different articles were purchased.
The loss on the other stores cannot be
much; the small stores, timber and
miscellaneous articles were obtained
for general purposes, and the Committee
recommend that the loss by sale be
written off to "Profit and Loss".

Godavary Irrigation. Floating Plant.

9. The Committee have examined the
Statement of floating plant to be
maintained in the Year 1881-82, as
printed in G. O. No. 550, dated 26th
August 1880.

Approved
Thistle. - The machinery of this steamer
is entered as old and worn; but the Supt.
of Works states that the machinery is
repairable, and the boat useful; he
recommends that she should not be sold.

AP 16
Little Nell-Haw. These 2 steamers are
to be advertised for sale by the Superintendent
of works -

Some
sent to
be sold
in 1881/82
out of
last year
1882/83

No 12. Iron Truss Pont is entered as
sunk in a main Canal. Enquiries having
been made, why an annual maintenance
is proposed, and the duty shown to be
that of conveying silt; it is explained
that attempts will be made to raise
the pont when the Canal is closed, with
a view to her being brought into use
again -

Approved

No 97. Iron flat is stated to be too
unwieldy for general use; but it is
explained, that the flat is useful on
particular occasions, and the Superintendent
of works thinks she ought to be kept.

Range boat No 5, has already been
sold and Range Boats No 9 & 10 are to
be sold shortly.

Approved

The rest of the floating plant, is said
not to be in excess of requirements, or
in unserviceable condition.

A list of the floating plant in the Goda-
vari District is sent up annually to the
Chief Engineer for Irrigation, in order
that provision may be made in the

Budget; and the Committee have no further
remarks to make on this head.

The cost of the Hawon has been charged
to the Capital account Productive Public
works, of the Godavari Delta; the sale
proceeds are therefore to be credited to
receipts on that Capital account.

The cost of the Little Nell has been
charged to general Plant of the Godavari
Eastern Delta; and the sale proceeds are to be
credited to the Revenue account, Tools
& Plant, Productive Public Works, Godavari
Delta.

Steamer "Prince".

10. The Steamer Prince was ordered to be sold
by the Marine Department in G.O. P.W. Dept
No 587 of the 22nd February 1877. A sale has
not been effected and in G.O. Judicial
Department No 1396 of the 8th Aug 79.
a telegram is recorded, directing the
Collector of Coconada to have the Prince
taken over the Anicut for use at
Rajammurthy. On a question raised
by the Accountant General as to
the incidence of charges connected
with the Prince; it was said

down in G. C. Judicial Department No 2742 of the 24th October/79, that "the Prince is maintained from Port Funds": but all special additional charges, i.e., not ordinary charges, are to be debited to the Department on whose account they are incurred.

On the 2nd September/80, the Master Attendant wrote to the Chief Secretary that the Marine Department has no need of the Prince, that the vessel has not been taken over for the use of the Marine Department and that she is employed under the orders of the P.W. Department. The Superintendent of Works Goddaway states in his letter No. 1997 of the 20th October/80, that the Prince was handed over to the Master Attendant at Coronada on the 21 December 1876, and that she was by the Marine Department placed at the disposal of the Military Department in 1879, the P.W. Dept having nothing to do with her beyond carrying out some repairs and supplying some fuel at the request of the military authorities.

The Committee believe that the Prince

List of surplus stock not required in the Kistna Eastern Delta.

To be sent to P.W. Stores.

		Rs. - A. P.
Plumbago	979 lbs.	195-14-6
Angle iron of sizes	33,962 lbs.	3450-0-0
Crane bearings cast iron	797 lbs.	
Flat bar iron	21613	1447-5-5
Sheet iron	64129 lbs.	6901-12-6
Crucibles large	No 100	70-11-3
Storeys value	-1	1423-3-11
		<u>13488-10-7</u>

no more to move this list
see above

To be sold at Buzwada.

Yasur wood	360 cub ft.	155-7-2
Railway old iron		189-0-1
Lead sheets	1,484 lbs.	330-1-4
Sundry iron	1763 lbs.	52-5-4
Copper old	60 lbs.	22-3-4
Gun metal	162 lbs.	70-14-0
3 items of paint	515 lbs.	91-4-11
Oxide of lead and yellow clay		27-14-6
Wooden gates		4-13-10
Leather Madras v. Europe	350 lbs.	104-7-3
Camp stools and canvas	No 18	25-13-2
Small board		0-7-9
Spurs	No 2	4-10-7
Iron cot	1	18-15-4
Copper plates	1	13-7-1

Water tubs on wheels	No 5	7-8-
Venetian windows	14	241-
Bandy wheel	1	23-
Semi circular windows	3	36-
Wooden leg.	1	6-3-6
Salvages.	17 lb	11-6-4
Telegraph wire	36 lb	1-15-4
		<hr/> 1738-14-10

Rectoria Eastern Distⁿ
 Km 9 Machining
 in large quantity

Sturges
 Feb 1881

31
94-93
 List of Machinery and Tools and Plant no longer required in the Third Eastern Division

Class No.	Name of Articles	Balance	Remarks
42	Machine stone-breaking	3	Cannot be sold or disposed of locally
50	Pump Portable double	1	Do
	Machine brickmaking with pug mill	1	Do
	Do - hulling with under shot water wheel spines	1	Do
	Air Engine	1	This is believed to be an air Engine, but it is not known why or when it came here, and it cannot be disposed of here.
x	Axle with one wheel	1	might be auctioned here.
	Do with Calcutta wheels	109	There are flanged wheels for trucks
	Do Dowlaisborough with wheels	1	Do
	Do Do wheels	107	Do
x	Arrow wheels	12	might be auctioned here
	Red Keys	2	for screwing up wooden bars
x	Barrels iron empty	34	These are really old paint keys and should not appear in the Tools section - They might be disposed of here or kept for sending out later
	Roll crank for old wooden pump	1	might be sold here.
x	Brick moulds brass solid	5	Do
	Do Do 2" bind	19	Do
	Blacks iron quadruple 12"	2	Could not be disposed of here.
	Do Do 10"	2	Do
	Do Do 9"	2	Do
x	Cranks	2	might be sold at <u>Benjamin</u> <u>W.R.</u> of old hand pump boat
	Calcutta wheels	4	Do cannot be disposed of here. W.R.
	Cog wheels of sorts	31	Do
	Log wheels	16	Do empty names are really Paul wheels.
	Log iron	23	Do
x	Redwood pegs tank wood		
	Logs	1	might be sold here

Tools and Plant

Machinery

Tools and Plant

Renovs for Crane	32	might be sold here
Pullies crane	7	Do
Paole wheel crank	1	Do
Waggons complete	12	
Do wheel pairs	40	Cannot be disposed of here
Do end top with fittings	4	Do
Do side top	16	Do
wheel, large for Boulainvilliers	8	Do
wheels for Crane	8	Do
wheel iron waggons pairs	8	Do
wheels large Calcutta axle	1	Do
Wooden wheel old	1	Do
Old boiler (not in list)	1	might be sold here being useless

J. D. Hunt

Ec Engr & Dr Fisher

7th January 1881

Eastern Division Office

Bengal

Coimbatore Division.

17.

The Stock Balance at the close of September 1880 was only Rupees 449-11-9, of which the Executive Engineer proposes to retain all except 2 items valued at Rs 32-4-0. He reports all can be used, the committee therefore propose to accept his proposals and recommend that the small unserviceable balance should be met by increase of rates on the remaining items.

Presidency Division.

18.

The Stock Balance in this Division on the 30th September 1880, amounted to Rs 2063, of which the Superintendent of Works proposes to sell about 900 Rs worth, consisting chiefly of made up doors and windows. It is clearly impossible to adjust this loss by increase of rates on the remaining articles of Stock. The doors and windows were obtained for works the accounts of which are not yet closed, the committee therefore recommend

914-15
94

1136
recommend that the loss incurred by the sale should be debited to those works, the excess over estimate being covered by supplemental sanction, if necessary.

There is an item of 2,460 granite Stones at Madras, valued at Rs 213-11-4. These stones have been on hand for some time, they are of no real value, but were brought away from old native buildings. The Superintendent of the Government Museum would be glad to take them over, free of cost, and he would make use of the stones, as posts about the Museum grounds.

The Committee recommend that the Superintendent of Works may be authorized to hand over the stones to the Superintendent of the Museum.

The Stock Balance on the 30th September 1880 was Rs 4,332, of which Rs. 1414-4-9 stand against an equilibrium value which is stated to be in position at the Red Hills.

du

Approved

19. Chingleput Division

1137
In regard to the rest, the Executive Engineer proposes to sell iron valued at Rs 41-8-0, and worth according to his estimate only Rs 10. Some granite stone, the book value of which is Rs 1,614, the Executive Engineer considers not really worth more than 325. There is also gun powder valued at Rs 241, which it is stated, is not required in the Division.

The Committee recommend the following adjustments:—

1. The equilibrium value should be changed to the work to which it was issued, and on which it stands.
2. The loss incurred by the sale of the iron and granite stones to be debited to Profit and Loss, as the accounts of the works for which they were obtained have long since been closed.
3. The Powder should be transferred to the Ordnance Department for deposit, and issue when wanted by other parties.

*Proposed
Approved*

20
Madras Harbour Works

The Stock Balance on the 30th September

AP 36

September 1880 stood at Rs 1,88,048.35
The Statement submitted contains proposals regarding items the book value of which is only Rs 16,130. No returns have been received from the Superintendent for two years. Showing what stock and tools and plant he actually has on hand; and until these are furnished, the question cannot be dealt with. The committee are consequently unable to make any recommendations. The subject is of the less importance as the Madras Harbour works will cease to exist as a Division in another year, and all accounts connected with them will be finally closed.

Will be dealt with separately in the next report to be submitted to the Committee.

21. North Arcot.

In this Division there is practically no stock, the only article, valued Rs 64. "Rs. 0, on hand, being a paper. An early opportunity should be taken to charge this off to the work on which it may be required, and if such is not likely to occur, it should be sent to the Public Works Stores.

AP 37

Stores for disposal

9/10-05
96

Buckingham Canal.

Superintendent reports that there is no stock in his Division.

22. Presidency Stores.

(will follow)

The Balance on hand on the 30th September 1880 was valued at Rs. 4,94,286.10.6. The Superintendent has submitted a list of the Stores in Stock divided into 4 classes:-
A. - Articles not likely to be used within 18 months,
B. - Articles which he considers should be kept in Stock,
C. - Articles the outright sale of which is recommended,
D. - Stores received from District officers which can be repaired and kept for issue when indentured for.
In regard to class A, the Superintendent estimates that the sale of these articles by auction, or by tender, would probably involve a loss of about Rs 98,000. Judging by past demands from the Railway Companies.

Companies and the Public generally for similar Stores, he considers that if the extra percentages as per margin at present charged to other than Public Departments were removed, and the Stores for sale extensively advertised, purchasers would be found. As the outright sale of these Stores will undoubtedly involve heavy loss, and they are of exceptionally good quality, the Committee are of opinion that, before the outright sale is ordered, the proposals of the Superintendent should be tried for some time, not only for the Stores enumerated in class A, but for all those in Stock, giving the Superintendent the additional discretion of reducing the book rate in cases in which he may consider it necessary to ensure a sale, the loss being debited to "Profit and Loss."

Instruments 15 %
Machinery 17 %
Tools & Plant 20 %
Stock ——— 22 %

The articles in class C reported 23

as quite unserviceable, and kept on the books without value, the Committee recommend should be sold by auction at an early date. The Committee also recommend that the Superintendent be ordered to submit a full report of the result of the

Approved

the experiment, before the close of the official year 1881-82. It is further recommended, that no further Stores of any description should be purchased or indentured for without Estimates for the same being submitted and sanctioned, under the rules applicable to original works.

Consulting Architect 24

On the 30th September 1880, the balance at debit of Stock was Rs 16,465-2-1, of which Rs 12,413-7-11 is charged on account of Manufacture and carriage. The difference between these two figures (Rs 3,721-10-2) represents value of articles on hand, which the Consulting Architect states will be required for works in progress. The large sum of Rs 12,413-7-11, however, is thus accounted for by the Consulting Architect.

Value of Patent Pottery kiln 26,154-0-0
— of Sheds ——— 5,388-0-0
— of Land ——— 3,589-0-0
Stock actually on ground 12,413-0-0
Stock issued but not charged 3,011-0-0

Total Rs 12,413-0-0

4460
It is reported that the actual
debit to the kiln will be reduced
at the end of the year to 24,000 Rs.,
but that the whole sum on account of
the Brickfield remaining unad-
justed will come up to Rs 33,000.

The kiln was constructed in the year
1873, and had the proper procedure
of charging a fair percentage to
all outturn, and crediting it to
the Brickfield, been followed, this
large sum would not have re-
mained to be adjusted at this
late period.

M^r Ghisholm states that, with
General Walker's concurrence in
1876, a sum of Rs 20,000 was entered
in the estimates for the Post office
and Telegraph office, as a fair
sum to charge off in return for the
benefit those buildings would
derive from the kiln. From the
accounts, it appears, that nothing
has yet been charged.

Under these circumstances the
committee consider that, as it would
not repay the labour that would
be necessary to go back upon the
accounts of past years, to enable
the Consulting Architect to charge
off the correct percentage rate to
all the issues, it may, as a special
case, be considered permissible to
charge

It is enough to be for
reported that the kiln
was not charged upon
the first year's work
the second year's work
the third year's work
the fourth year's work
the fifth year's work
the sixth year's work
the seventh year's work
the eighth year's work
the ninth year's work
the tenth year's work
the eleventh year's work
the twelfth year's work
the thirteenth year's work
the fourteenth year's work
the fifteenth year's work
the sixteenth year's work
the seventeenth year's work
the eighteenth year's work
the nineteenth year's work
the twentieth year's work
the twenty-first year's work
the twenty-second year's work
the twenty-third year's work
the twenty-fourth year's work
the twenty-fifth year's work
the twenty-sixth year's work
the twenty-seventh year's work
the twenty-eighth year's work
the twenty-ninth year's work
the thirtieth year's work
the thirty-first year's work
the thirty-second year's work
the thirty-third year's work
the thirty-fourth year's work
the thirty-fifth year's work
the thirty-sixth year's work
the thirty-seventh year's work
the thirty-eighth year's work
the thirty-ninth year's work
the fortieth year's work
the forty-first year's work
the forty-second year's work
the forty-third year's work
the forty-fourth year's work
the forty-fifth year's work
the forty-sixth year's work
the forty-seventh year's work
the forty-eighth year's work
the forty-ninth year's work
the fiftieth year's work
the fifty-first year's work
the fifty-second year's work
the fifty-third year's work
the fifty-fourth year's work
the fifty-fifth year's work
the fifty-sixth year's work
the fifty-seventh year's work
the fifty-eighth year's work
the fifty-ninth year's work
the sixtieth year's work
the sixty-first year's work
the sixty-second year's work
the sixty-third year's work
the sixty-fourth year's work
the sixty-fifth year's work
the sixty-sixth year's work
the sixty-seventh year's work
the sixty-eighth year's work
the sixty-ninth year's work
the seventieth year's work
the seventy-first year's work
the seventy-second year's work
the seventy-third year's work
the seventy-fourth year's work
the seventy-fifth year's work
the seventy-sixth year's work
the seventy-seventh year's work
the seventy-eighth year's work
the seventy-ninth year's work
the eightieth year's work
the eighty-first year's work
the eighty-second year's work
the eighty-third year's work
the eighty-fourth year's work
the eighty-fifth year's work
the eighty-sixth year's work
the eighty-seventh year's work
the eighty-eighth year's work
the eighty-ninth year's work
the ninetieth year's work
the ninety-first year's work
the ninety-second year's work
the ninety-third year's work
the ninety-fourth year's work
the ninety-fifth year's work
the ninety-sixth year's work
the ninety-seventh year's work
the ninety-eighth year's work
the ninety-ninth year's work
the hundredth year's work

West Coast.

25.

The Stock Balance of the Division
on the 30th September 1880 was Rs
13,656, of which Rs 4,666 is for
"Manufacture and carriage". The
Brevet Engineer proposes to sell
the Lime kilns with sheds at
Wellington and Potacamund
and also stock to the value of
about Rs 2,300. The remainder
to be retained, as being likely to
be required for works within
the next 18 months.

The kilns should, before now,
have been written off the books,
by debit to the works for which
they were originally constructed.
The accounts of these have long
since

AP 62
 Since been closed, and as the Executive Engineer reports that the kilns are practically useless, the Committee recommend that, if a purchaser can be found, they may be sold, and the loss debited to Profit and Loss. In any case the kilns should be written off the Stock accounts.

On the Stock he proposes to sell, the Executive Engineer estimates the loss will be about Rs 1050, which he proposes to distribute as follows

- I by debit to works 112
- II by debit to works
 & Profit and Loss - 362
- III by debit to Profit
 and Loss - 582

As the articles enumerated under classes I and II will be required for works the Committee are of opinion that the whole value should be charged off to these works, provision being made in the estimates for the exceptionally high charges, by entering slightly increased rates.

As it appears that the articles in class III will not probably be required for works the Committee recommend that they may be disposed of as the Executive Engineer proposes and the loss debited

to

	Book Value
211 1/2 Patent Luge Boils	105 " 12 " 0
243 ————— Def. —————	128 " 10 " 0
7 Iron Plates —————	88 " 8 " 11

to Profit and Loss.

AP 13 999 25/99
 The articles as per margin, the Executive Engineer considers, may be useful to the Local Fund Boards, they should therefore be offered to them, the Executive Engineer being left discretionary power to accept a lower sum than the Book value, should he consider it for the interest of Government.

26. The Stock expenditure during the period from October 1879 to 30 September 1880 is shown to be Rs 5544, chiefly under "Building Materials" and "Miscellaneous."

Most of the articles under these heads, can be obtained when necessary for works after they are sanctioned; the Committee therefore are of opinion, that the limit for Reserve Stock should not be fixed at a higher sum than Rs 2,000, as that limit should amply suffice to admit of any stock being kept which it is known cannot be obtained within a reasonable time, and which it is considered should be retained, as being likely to be required for emergencies.

Every endeavour should be made to reduce the Stock Balance to

this

this limit, and lower, if possible.

above
proposed
copied

Presidency P. M. Workshops 27.

The Superintendent submits a list of stock belonging to the Workshops the total Book value of which is Rs. 1,43,513. He proposes the transfer to the P. M. Stores of articles to the value of Rs. 1,00,851-6-4, with a view to their sale eventually, and to the immediate relief to the Workshops of the interest charges; Rs. 33,640 worth of stock he proposes to retain; and other articles valued at Rs. 9,121-1-1, he suggests, should be sold by auction. Of the articles proposed for transfer to the stores, the Committee are of opinion

94 Wheel barrow	valued at Rs. 1598-	that those, as per margin, should be
11 Wall brackets	104-8	sold, and not retained, as being likely
1 Tent	185	to realize more now than if kept for
3 Saddle cots	90	an indefinite period. The principle
5 Copying Presses	236-4	involved in the transfer of manufactures
7 Iron Camp cots	132-3	and other stores from the
Polished Indian Rubber	1881-	Workshops to the P. M. Stores, should
	4,127-6	not, the Committee are of opinion, be as

as a rule permitted, in as much as it would tend to encourage over manufacture of articles not immediately required, in seasons when the shops are short of work, so as to keep them going, and possibly make them appear less profitable when the reverse is the case.

Approved

as

As the object of the present proposals is once for all, to endeavour to place the Workshops on a satisfactory footing by relieving them of all charges not properly belonging to them, the Committee recommend that the transfer of the remaining articles, valued at R 76734, to the Pub. Works Stores may, as a very special case, be sanctioned, the same steps being taken for their early disposal, as have been recommended for the other P.W. Stores.

The articles proposed by the Superintendent to be retained, as being likely to be used within the next 18 months, consist chiefly of Drills, Jacks, tools, &c. Their retention may therefore be sanctioned: as may also, in the opinion of the Committee, the proposals in regard to the auction of stocks, valued at R 4121. The purchases of fresh stocks should however be allowed, and materials required, should be obtained on indent from the stores for specific jobs.

The Superintendent represents that the value at which the machinery stands on the books is considerably in excess of the real value, and gives a Comparative

transferred
approved
current fund
now - otherwise
may be transferred in
1891-92 and the remainder
in 1892-93

approved
report in result of
submitted 6 months
hence

Total Book Value - 86,759
Superintendent's Estimate - 67,213
Difference R. 19,546.

Approved

G.O. 11668 D/7/3/71.

Comparative Statement showing the Book's value, and that at which the estimate the present value of each machine, the totals being as per margin. The difference R 19,546 he wishes to be written off to Profit and Loss and

Depreciation of Machinery has been since the year 1870/71 charged off at S.P.C. under the marginally noted orders.

It appears to the Committee that this is too small a Percentage to deduct, as it is improbable that the machines will be effectively used for the number of years represented by that small depreciation Percentage. It is natural that those responsible for the Workshops should desire a low depreciation charges, as thereby fewer calls are made upon the gross receipts before the net Profit is brought out, and hence the Revenue is made to appear as great as possible; but it appears an unsafe procedure to admit, for the real facts will eventually force attention, and compel a large write off at some future date.

This has been in a measure

the write off against Government of the difference namely R^y 7317 instead of R^y 19546 as suggested by the Superintendent of Workshops.

Advised

The Superintendent further proposes a reduction of the debit to Capital on account of "Block" by revaluation of the buildings, or by a larger share of the charge thereof being transferred to Stores.

The Workshops stating the greater part of the Buildings, since the transfer to Stores of a large proportion of the charge for them appears to the Committee inadmissible; and in regard to the revaluation, it has to be borne in mind, that the original arrangements were made, estimated for and carried out by Mr. Granger, and that additions have since been made which should not have been the case if the premises were already too extensive; any relief therefore under this head cannot, the Committee think, be justly recommended.

In order to make the work

	Statement showing the State of Expenditure & Depreciation for 10 years.									
	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880
Smith Building 1	40	40	40	40	40	40	50	50	35	45
Blacksmith Shop 1	20	20	20	20	20	20	20	20	35	35
Engine Shop 1	12	12	12	12	12	12	12	12	35	35
Wagon Shop 1	30	30	30	30	30	30	30	30	35	35
Wagon Shop 2	1	1	1	1	1	1	1	1	30	30
Wagon Shop 3	1	1	1	1	1	1	1	1	30	30
Wagon Shop 4	1	1	1	1	1	1	1	1	30	30
Wagon Shop 5	1	1	1	1	1	1	1	1	30	30
Wagon Shop 6	1	1	1	1	1	1	1	1	30	30
Wagon Shop 7	1	1	1	1	1	1	1	1	30	30
Wagon Shop 8	1	1	1	1	1	1	1	1	30	30
Wagon Shop 9	1	1	1	1	1	1	1	1	30	30
Wagon Shop 10	1	1	1	1	1	1	1	1	30	30
Wagon Shop 11	1	1	1	1	1	1	1	1	30	30
Wagon Shop 12	1	1	1	1	1	1	1	1	30	30
Wagon Shop 13	1	1	1	1	1	1	1	1	30	30
Wagon Shop 14	1	1	1	1	1	1	1	1	30	30
Wagon Shop 15	1	1	1	1	1	1	1	1	30	30
Wagon Shop 16	1	1	1	1	1	1	1	1	30	30
Wagon Shop 17	1	1	1	1	1	1	1	1	30	30
Wagon Shop 18	1	1	1	1	1	1	1	1	30	30
Wagon Shop 19	1	1	1	1	1	1	1	1	30	30
Wagon Shop 20	1	1	1	1	1	1	1	1	30	30
Wagon Shop 21	1	1	1	1	1	1	1	1	30	30
Wagon Shop 22	1	1	1	1	1	1	1	1	30	30
Wagon Shop 23	1	1	1	1	1	1	1	1	30	30
Wagon Shop 24	1	1	1	1	1	1	1	1	30	30
Wagon Shop 25	1	1	1	1	1	1	1	1	30	30
Wagon Shop 26	1	1	1	1	1	1	1	1	30	30
Wagon Shop 27	1	1	1	1	1	1	1	1	30	30
Wagon Shop 28	1	1	1	1	1	1	1	1	30	30
Wagon Shop 29	1	1	1	1	1	1	1	1	30	30
Wagon Shop 30	1	1	1	1	1	1	1	1	30	30
Wagon Shop 31	1	1	1	1	1	1	1	1	30	30
Wagon Shop 32	1	1	1	1	1	1	1	1	30	30
Wagon Shop 33	1	1	1	1	1	1	1	1	30	30
Wagon Shop 34	1	1	1	1	1	1	1	1	30	30
Wagon Shop 35	1	1	1	1	1	1	1	1	30	30
Wagon Shop 36	1	1	1	1	1	1	1	1	30	30
Wagon Shop 37	1	1	1	1	1	1	1	1	30	30
Wagon Shop 38	1	1	1	1	1	1	1	1	30	30
Wagon Shop 39	1	1	1	1	1	1	1	1	30	30
Wagon Shop 40	1	1	1	1	1	1	1	1	30	30
Wagon Shop 41	1	1	1	1	1	1	1	1	30	30
Wagon Shop 42	1	1	1	1	1	1	1	1	30	30
Wagon Shop 43	1	1	1	1	1	1	1	1	30	30
Wagon Shop 44	1	1	1	1	1	1	1	1	30	30
Wagon Shop 45	1	1	1	1	1	1	1	1	30	30
Wagon Shop 46	1	1	1	1	1	1	1	1	30	30
Wagon Shop 47	1	1	1	1	1	1	1	1	30	30
Wagon Shop 48	1	1	1	1	1	1	1	1	30	30
Wagon Shop 49	1	1	1	1	1	1	1	1	30	30
Wagon Shop 50	1	1	1	1	1	1	1	1	30	30
Wagon Shop 51	1	1	1	1	1	1	1	1	30	30
Wagon Shop 52	1	1	1	1	1	1	1	1	30	30
Wagon Shop 53	1	1	1	1	1	1	1	1	30	30
Wagon Shop 54	1	1	1	1	1	1	1	1	30	30
Wagon Shop 55	1	1	1	1	1	1	1	1	30	30
Wagon Shop 56	1	1	1	1	1	1	1	1	30	30
Wagon Shop 57	1	1	1	1	1	1	1	1	30	30
Wagon Shop 58	1	1	1	1	1	1	1	1	30	30
Wagon Shop 59	1	1	1	1	1	1	1	1	30	30
Wagon Shop 60	1	1	1	1	1	1	1	1	30	30
Wagon Shop 61	1	1	1	1	1	1	1	1	30	30
Wagon Shop 62	1	1	1	1	1	1	1	1	30	30
Wagon Shop 63	1	1	1	1	1	1	1	1	30	30
Wagon Shop 64	1	1	1	1	1	1	1	1	30	30
Wagon Shop 65	1	1	1	1	1	1	1	1	30	30
Wagon Shop 66	1	1	1	1	1	1	1	1	30	30
Wagon Shop 67	1	1	1	1	1	1	1	1	30	30
Wagon Shop 68	1	1	1	1	1	1	1	1	30	30
Wagon Shop 69	1	1	1	1	1	1	1	1	30	30
Wagon Shop 70	1	1	1	1	1	1	1	1	30	30
Wagon Shop 71	1	1	1	1	1	1	1	1	30	30
Wagon Shop 72	1	1	1	1	1	1	1	1	30	30
Wagon Shop 73	1	1	1	1	1	1	1	1	30	30
Wagon Shop 74	1	1	1	1	1	1	1	1	30	30
Wagon Shop 75	1	1	1	1	1	1	1	1	30	30
Wagon Shop 76	1	1	1	1	1	1	1	1	30	30
Wagon Shop 77	1	1	1	1	1	1	1	1	30	30
Wagon Shop 78	1	1	1	1	1	1	1	1	30	30
Wagon Shop 79	1	1	1	1	1	1	1	1	30	30
Wagon Shop 80	1	1	1	1	1	1	1	1	30	30
Wagon Shop 81	1	1	1	1	1	1	1	1	30	30
Wagon Shop 82	1	1	1	1	1	1	1	1	30	30
Wagon Shop 83	1	1	1	1	1	1	1	1	30	30
Wagon Shop 84	1	1	1	1	1	1	1	1	30	30
Wagon Shop 85	1	1	1	1	1	1	1	1	30	30
Wagon Shop 86	1	1	1	1	1	1	1	1	30	30
Wagon Shop 87	1	1	1	1	1	1	1	1	30	30
Wagon Shop 88	1	1	1	1	1	1	1	1	30	30
Wagon Shop 89	1	1	1	1	1	1	1	1	30	30
Wagon Shop 90	1	1	1	1	1	1	1	1	30	30
Wagon Shop 91	1	1	1	1	1	1	1	1	30	30
Wagon Shop 92	1	1	1	1	1	1	1	1	30	30
Wagon Shop 93	1	1	1	1	1	1	1	1	30	30
Wagon Shop 94	1	1	1	1	1	1	1	1	30	30
Wagon Shop 95	1	1	1	1	1	1	1	1	30	30
Wagon Shop 96	1	1	1	1	1	1	1	1	30	30
Wagon Shop 97	1	1	1	1	1	1	1	1	30	30
Wagon Shop 98	1	1	1	1	1	1	1	1	30	30
Wagon Shop 99	1	1	1	1	1	1	1	1	30	30
Wagon Shop 100	1	1	1	1	1	1	1	1	30	30

Workshops, it appears that more than a relief from charges on account of Interest and Depreciation is necessary - ~~and~~ is to be attained only by the most careful scrutiny of all the arrangements and check over unnecessary expenditure, more especially in connection with the general expenses consisting of General Departmental Supervision, Office Establishment, Labour and Material on general account, and repairs to machinery. The charges for General Departmental Supervision are as follows.

1. Salary of Pay and allowances of the Gen^l Superintendent.
2. Full pay and allowances of the Sub Engineer.

The total of both amounting to R^y 710 per mensem.

3. The additional Establishment detailed in the margin of which particulars are given for the last 10 years.

From this table it will be seen that there has been a most marked increase in the cost of this portion of the Establishment, especially during the last two years, which

Do

The additional men noted in the remarks column of the Table, appear to the Committee, Superfluous, Under Officer Establishment; besides the regularly sanctioned Establishment, there is a contingent Establishment of Clerks, Convalescing Attendants and Boys, appointed by the Superintendent. The particulars of this Contingent Establishment are given in the margin for the last 10 years; and it will be seen, that here also, there has been an increase in the numbers and rates of pay of this Establishment, during the last two years. The Committee consider that no establishment should be entertained except under the P.W. ordinary rules and

men otherwise engaged. For special jobs, should be debited to those jobs to as work establishment, and not to general charges. Looking at the figures given, nearly as much work was turned out in the year 1873 $\frac{1}{4}$ as when there was no such contingent establishment; its continuance therefore appears to the Committee to be ~~not~~ unnecessary.

In addition to the above, there are charges for labour and materials for general purposes, over which the Superintendent alone can exercise an efficient check; but the Committee considers that it should be distinctly understood, that there should be no such charge to this fund, of items which can properly be charged to the jobs in hand. After jobs have been completed and debited with the charges for labour and materials, and a "Percentage for general charges," there is an additional charge for "Extra Profit." This does not appear to the Committee a correct or politic charge, the object being to make the Workshops pay, the charges should not

not be more than is necessary to
attain this object. If the general P.W.
charge is insufficient, it should be
increased instead of an entirely fresh
charge being made under the name
of "Extra profit".

Certain

The balance at debit of
raw materials & manufactured goods
is charged with interest; it should

33.

therefore be kept as low as possible,
and this, the Committee consider,
can be attained, by the Workshops
only manufacturing upon definite
orders, and obtaining materials from
the P.W. Store on indent for
such order as required; even if
the measures above adverted to are
sanctioned, the Committee are of
opinion that the results will not
show a profit, unless the general
charges and the management of the
Shops receive the greatest attention.

With this view, they consider that
more detailed information regarding
the transactions from month to
month is necessary. At present
all that is reported monthly is
the amounts received by the Works
shops, and the amounts repaid
by it to Government; of the
intermediate

intermediate transactions, on the
proper management of which so much
depends, nothing is known in the
Examiners' Office or by Government.

Past experience shows that
the following restrictions are necessary.

I. No work to be executed
except upon regularly sanctioned
estimates; with half the estimated
amounts paid in advance when
the work is ordered by private
individuals or the General Public.

II. No additions or repairs to
Blocks or Machinery, to be undertaken
except on estimates regularly sanctioned
under P.W. original works
rules; the Superintendent having
the powers of an *Op Engineer*
within the limits as to total funds,
the fixed from year to year by
Government; In the event of no
funds being allotted, of course no
sanctions could be given.

III. No establishment other than
work Establishment to be entertained
except under the usual P.W. D.
Establishment rules.

IV. The purchases of stores or
materials of any kind should not
be permitted, but all such should
be

be obtained from the P.M. Stores on indent, specifying the particular job for which they are wanted, and to which the whole should be charged.

In order to afford the means of ensuring that these points receive attention, the accompanying schedules (marked A to F) should accompany the accounts.

As the journal and Ledger are closed every month, there will be no difficulty in abstracting the information, and the remaining operations necessary to arrive at the General Profit and Loss account, which brings out the results of the transactions, can be effected in the Examiner's Office.

*All proposals
approved
by the Committee
must be submitted
to the Examiner of
State in future*

192

Stock Account Current

57 9/14-15 108 C2

To Balance	By Issue to Mechanical Dept
Value received from Pub	Instrument
Works stores	General
From Law	Foundry
Missarial Department	
Total	Balance
	Total

B.

Account of adjustment

To Work done by Arsenal	By debit to Mechanical Dept
	General charges
Total	Total

Detail Statement of General charges for the month of _____

Particulars	Cash	Stocks	Adjustment	Remarks
General Supervision	000	00		
Office Establishment	00	00		
Engine Drivers	00	00		
Fireman	00	00		
Boilers	00	00		
Coal	00	00		
Charcoal		00		To the Engine in Mechanical Department
Other Materials		00		
Work done by other Dept		00		
Total				

Statement of Debts and Credits to the stores making up the month of _____

Particulars	Balance at the end of last month	Debits during the month	Total	Credits during the month	Balance at the end of month	Remarks
Block						
Machinery						
Raw Materials						
Manufacture						
Mechanical Dept						
Instrument Dept						
Foundry						
Public Department						
Sales						
Cash						

Statement of percentages charged up to _____

Department	Amount	Remarks
Mechanical Dept	000	
Instrument Dept	000	
Foundry	000	
Raw Materials	000	

Statement of Surpluses and Demands up to the month of _____

To Cash paid into Treasury	000	By Vouchers of Credit	000
Adjustment by transfer	000	Stores received from Pub Dept	000
		Interest on Capital	000
		Leave and Pension allowances	000
		Net Profit	000
		Decrease of Capital	000
Total	000	Total	000

Buckingham Canal. 9/16-35
108

34.

The Superintendent of Works was
desired by the Government to re-consider
his proposal to bring materials valued
at Rupees 11,436 on the Stock account - and
he states in his letter to the Committee of the
4th December that the Government have
sanctioned the retention of materials to
the value of Rs 9375; the remainder to be
disposed of by sale.

The Superintendent of Works has
informed the Committee, that he has 6
small boats, and 2 spoil boats that are
unfit for further use - that he has
scientific instruments in excess of
normal requirements, but that are
wanted at present by survey parties - and
that there are surplus tools, viz; 1279
pick-axes, 476 crow-bars 8803 ma-
= moolies and sundry other minor items
as also some furniture which are
available.

SP 62
available for transport or sale.

The Committee recommend that the 8 unserviceable boats be sold off; and are of opinion that the Superintendent of Works should return the tools he does not require to the P. W. Stores for disposal and sell off the surplus furniture. The value of the boats has been already charged to the works, and the sale proceeds will be credited in the Canal accounts. Otherwise the Superintendent shows in his returns that he has no stock on hand.

approved should
a/pt of W
for S of W
disposal or not
that I. may be
tools bought for
are fitted for
Canal

Gas Works Fort St. George

9/14-17
109

35.

* enclosed

The Superintendent states that the greater part of the materials on his List of the 11th March last, are required for the present gas works. But that there are a good many trap materials, under the last head in the list, that are old and useless; these are marked C.

* enclosed

There is also a large quantity of stores that have been in the charge of the P. W. Department; and of the articles entered in the other list, dated the 28th October/80 a few only marked a and b are wanted for the present gas works. The remaining large proportion of the stores is not likely to be used, unless the extension of the gas works be sanctioned; in which event all the articles marked C would be required.

Doctor Rogers considers that these latter stores marked C. would be sold locally at a great loss; and he believes it would be worth while to send the trap fittings &c. to England, if they cannot be kept. The Committee recommend that the Super-

1866
of the Gas Works be authorised to sell
off the unserviceable articles marked C
on his list of the 14th March 1880.

The whole of the Gas Works stores have
been charged to the works; and none are
brought on to Stock Account.

The Committee are unable to judge whether 36
the extension of the Gas Works is likely to
be carried out, or if the stores marked C
on the list of 28th October are to be considered
as surplus, and an incumbrance.

These stores are kept by the Superin-
tendent of Works, who says they do not
in reality give him any trouble, as they
are locked up in a separate store room.

While then there is no urgency in the
matter, the Committee think that if
the Gas materials are not to be brought
into use, soon, it will hardly be expedient

to send the brass and glass fittings, the
tube pipes &c. back to Europe, but that
all should be cleared out, by auction sale.

The original list of Gas stores shows that
they were sent from the Harrowfield Iron
Works at Glasgow; and as the list is dated

the 1st June 1869, there is little prospect
of a remunerative price being given,
if the stores were taken back. 9/4-15
110

Pier Stores

37. The Master Attendant proposes to use
up the old Pier stores lying in the Fort,
in constructing jetties for boats within
the harbour. These stores may be turned
to account at any time, and the Committee
recommend that they may be held at
the disposal of the Master Attendant.

This should be referred
to the proper Department
for report.

Should be made
over 'en bloc' to
Union

7	Side lights	old & better
2	3/4" Brass Stop Cocks	old & better
6	Locks old of the boxes in Barracks	"
3	Brass Jugs	"
1	" Wheel	"
1	3/4" to 1/2" Stop Cocks	"
1	Copper Measures with a Stop Cocks	"
1	Iron Frames and Doors	"
30	Old pendants	"
2	Cut let valves old	"
2	Pulleys old	"
1	Portable Forge	"
1	Water gas Retort	"
1	Furnace for melting lead	"
1	Hydraulic Main of Carb gas	"
2	Oil gas measures or Retorts	"
14	Vids of the Retort	"
6	Asb. Bars	"
Hand 50	Steel of Chains	"
Hand 30	" of wrought Iron pipes	"
14	Iron Rollers	"
3	" Bars	"
1	14" pipe 16 feet long	"
3	Round Hammers	3 Backing
6	Keys of Carb gas Retorts	old
11	Iron dies	moderate
6	Retorts unserviceable	Retort
68	Steel of Thick Con. Pipes	old
38	" of " " " "	"
2	Iron Cisterns	old with
	Several Sundries of Iron pipe bolts, nuts, rods	all covered
	weighing about 3 or 4 Maunds	and much

Indies
March 1850

> 2 Pages. N.B. 700's
Chemical Examination
+ Sup Gas Work

914-15
113

Gas Works Materials under charge of the P.W. Dept.

Name of Materials	Number
Stock and dies 1/2" + 5/8"	Set 1
D ₂ 1/2" + 1"	" 1
D ₂ 1/2" + 5/8" for brass work	" 1
Pyrometers 2", 1 1/2", 1 1/4"	" 1
Tube Lure	12 1
Thiers Gas Fitters	" 6
Augers 10 mm	" 4
Pipe Cutter large	" 1
Cash Shop Yarning Tools	" 1
Spanners for Cocks	" 7
D ₂ Back hats	" 8
Pipe Jugs 1/2", 2", 2 1/4"	" 1
Plug	" 7
Hand Hammers	" 1
Fire Clay Retorts	" 6
Cash iron oval Retorts	" 4
D ₂ at Bottom	" 4
D ₂ Mouth pieces	" 1
D ₂ Mouth covering plate	" 13
D ₂ D ₂	" 13
D ₂ 3" way pipe box	" 1
D ₂ Socket pipes 9' long 5" Dr	" 16
D ₂ 9' long 4" Dr	" 29
D ₂ 4" Dr	" 6
D ₂ Bend	" 566
D ₂ Pipe 6' long 1 1/2" Dr	" 2528
D ₂ 4' long 1" Dr	" 6
Iron Chain 22' long	" 6
Iron hooks large	" 6
D ₂ D ₂	" 6
D ₂ D ₂	" 5
D ₂ D ₂	" 7
Iron handles	" 3
D ₂ Jumper	" 1
Lead Tube 2"	off 12
D ₂ 1 1/2"	" 27

Lead Sails 1"	68	C
Do 3/4"	24	
Do 1/2"	240	
Do 3/8"	120	
Brass Main Cocks 2"	1	
Do 1 1/2"	76	b 25
Do 1"	18	a
Do 3/4"	10	b 2 new
Do 1/2"	109	b 50
Do 3/8"	534	b 200
Do 1/2"	10	a
Do 1"	15	b 5 new
Union for iron & tin 2"	2	
Do 1 1/2"	10	
Do 1"	2	
Casing plate 1/2"	68	C
Do 3/8"	336	
Elbow Cocks & Galleries 3/8"	545	b 200
Do Drop Screws 3/8"	328	b 200
Do 1/2"	110	
Do 3/4"	11	
Do 1"	2	
Elbow Drop Screws for tin 1/2"	88	b 40
Brass lines for Socket	21	
Lines Lanthorn Cocks	145	C
Copper Siphon Pumps	2	a
Water Gauges with Glass Tubes	4	b 2
1 1/2" Cocks brass plug	7	
1" Do Do	1	
India Rubber Bags for main	15	a
Rich Meters 80 lights	1	
Do 10 lights	1	
Bodies for 15 set Pendants	2	
Drop for 16 set long	2	
Bodies for 4 set	4	
Do for 3 set	2	
Double brackets 2 lights	2	
Do joint brackets	3	
Bodies for Pendants 6 set	4	
Drop tubes 2"	2	

9/14-15
114

16 feet long & bodies 2"	1	3	
24 feet & do 2"	1		
16 feet & do 3"	2		
7 feet & do 4"	1		
13 feet & do 6"	1		
Pan. head Reverts 1/2" x 1/4"	30 1/4		a burners?
Swamp head Reverts 7/16 x 1/4"	3252		a
Life glass	1102		
Top glass	2211		
Bottom glass	103		
Clear glass Globes 8"	1859		
Cut do do	467		
Large glass Chimneys 3 rows	136		
Pumpah tops with wire sewage			
Bottoms 5 Boxes	800		
H. J. Pendants 3 3/4 long 1/2" do	70		
do Tubes with coupling 1" do 1 1/2" long	36		
do do 1 1/2" long	8		
do do 1 1/2" do 1 1/2" long	103		
do do 1 1/2" do 1 1/2" long	30		
do do 1" do 1 1/2" long	5		
do Bends 1 1/2" do	67		
do do 1" do	16		
do do 1/2" do	5		
do Tubes for pump tops 1 1/2" long 3/4" do	574		
do do	1485		b 150
do Rods 6 1/2' long 3/4"	2		C
do Carrying bars for portholes	2		
do Changing screws for portholes	1		
do do do do	1		
do C.I. 2" Flange Bend pipe	4		
do do 3" length 1" pipe filled			
do do with plug 3/8"	28		
do do Flange & spigot pipes			
do do 1 1/4" long 1 1/2" do	6		
do do do 7/8" do	1		
do do 3" Valve with handle	3		a
do do do do	1		
do C.I. Bends 1 1/2"	1		
do do 1 1/4"	6		
do do Pipe 3" x 1 1/2"	1		
do Drum pipes	86		
do Loose Sockets	48		

b all of 1/4" wanted

Flange Socket valve	12 114
C.I. 12" Siphon boxes	" 5
" 10" D ₂	" 5
" 8" D ₂	" 1
" Sarcularis Series pipes	" 11
" Snow Series Oxide Purifier	" 12
" Elbow Connection Bends 1"	" 147
D ₂ 1 1/2"	" 73
C.I. Siphon traps & covers	" 39
" Elbow Carrier for Brackets	" 140
" Lamp Bracket	" 96
" Bundles of flat Bars for brackets	" 36
" Bell pipes each 3' long with socket at both ends & stopped for 1 1/2"	" 15
" Services & fitted with plug	" 30
" Fire Bars	" 61
C.I. 14" Lamp tops	" 106
" D ₂ D ₂	" 63
" Shell Castings for Lamp	" 123
" Trap taps for D ₂	" 29
" Solder bolts for Brackets	" 141
" Bottom for Lamp	" 51
" Rods	" 148
" Knobs	" 98
H. I. Elbow 1" - 1/2"	" 45
D ₂ Tee 1" - 1/2" - 1"	" 130
D ₂ D ₂ 1 1/4" - 1/2" - 1/4"	" 66
D ₂ D ₂ 1" - 1/2" - 1"	" 37
D ₂ D ₂ 1 1/4" - 1/4" - 1 1/4"	" 21
D ₂ D ₂ 1 1/4" - 3/4" - 1 1/4"	" 9
D ₂ D ₂ 1 1/4" - 1/2" - 1"	" 13
D ₂ D ₂ 2" - 1/2" - 1"	" 3
D ₂ D ₂ 2" - 1" - 1"	" 5
D ₂ Elbow 2" - 2"	" 16
D ₂ D ₂ 1" - 3/4"	" 27
D ₂ Tee 1" - 2" - 1"	" 53
D ₂ D ₂ 2" - 2" - 1"	" 10
D ₂ D ₂ 2" - 1/2" - 2"	" 30
D ₂ D ₂ 3/4" - 1/2" - 3/4"	" 33
D ₂ D ₂ 1 1/2" - 3/4" - 1"	" 12
" Tee 1 1/2" - 3/4" - 1"	" 1

Flange Coupling 2 1/2" 1 1/2"

" Diminishing Coupling 1 1/2" - 1"	5
" 3/4" Tubes with Couplings 5" long	21
" Crosses 1 1/4"	76
" Couplings 1"	64
" D ₂ 3/4"	8
" 2" Tube Ring Wash	12
" 3 1/4" to 1/2" D ₂	29
" Screw Nails 6" long	80
" Bolts 6" x 3/4"	6
" Heads 3/4" to 3"	6
" Gas Hooks	2470
" Washers	612
C.I. Lamp Washers	53
" Screws 1 1/2" x 1/2"	366
" Roofing nails Galvanized	756
" Rings D ₂	405
" Snap head pins 1" x 1/4"	723
" D ₂ 1 1/2" x 1/4"	230
" D ₂ 3/4" x 1/4"	929
" Rough Iron pipe 2" D ₂	22
" D ₂ 1 1/2" D ₂	473
" D ₂ 1" D ₂	1200
" D ₂ 3/4" D ₂	12576
" D ₂ 1/2" D ₂	139 1/2
" D ₂ 1/4" D ₂	1462

C

to all of small size wanted

C

to 500

- C

2

2

Chapman
20 October 1883

Wm. L. Smith
Asst. Engineer

38.

The committee are of opinion that an unnecessarily large quantity of stock has been accumulated in several of the Divisions, and the Committee recommend that the amounts entered in the enclosed Statement should be considered as the limit of Stock Reserve.

These Divisions are omitted in which there is excess by Party to the Head Quarters, with the exception of Bangalore and Negapatam. In these 2 Divisions, a reserve supply of rough stone is required for the immediate protection of the larger irrigation works, but stock appears not to be necessary in the other Divisions. In the Godavery and Krishna Delta, a stock of timber is represented to be indispensably required by the Superintendents of Works. Separate columns are entered in the Statement for H^{rs} Building material, Timber, metals and a general head Miscellaneous is given to

AP 77

to comprise other stores, the Committee recommend that the reserve stock should be limited to the amounts under each head, and that the total should not be available, to increase the limit given for any separate head. If the specific sums have been set down at figures which some experience shows to be too low, it will remain for the Officers to show, since to the Government, before an increase is allowed.

Approved

AP 78

Statement Showing the limit of Reserve Stock proposed for Executive Divisions.

9185
177

Divisions	Building Materials	Stores	Metals	Miscellaneous	Total	Remarks.
Kizhappattam	"	"	"	500	500	to Railways
Donlawbaram Works Shops	"	9000	6000	15000	30000	"
Godavery Eastern	5000	10000	"	5000	20000	"
Do Western	"	500	"	500	1000	"
Kistna Eastern	3000	10000	5000	2000	20000	Includes Workshops
Do Western	"	500	"	500	1000	"
Kolleru	"	1000	"	500	1500	"
Cuddalore	"	"	"	"	0	"
Buckingham Quamb	"	"	"	"	0	On Railways
Salem	"	"	"	"	0	"
West Coast	2000	"	"	"	2000	"
Coimbatore	"	"	"	"	"	"
Trichinopoly	"	"	"	"	"	On Railways
Trichinopoly	"	"	"	"	"	"
Trichinopoly	12000	"	"	"	12000	"
Kanjapattam	3000	"	"	"	3000	"
South Arcot	"	"	"	"	"	"
North Arcot	"	"	"	"	"	On Railways
Chingleput	"	"	"	"	"	"
Presidency	"	"	"	"	"	"
Architect	10000	"	"	"	10000	"

Madras Mint Machinery.

The machinery and stores of 39. the Mint have been lying unused for some years. Endeavours have been made to dispose of these superfluous stores at Calcutta and Bombay, but the Engines, Pumps, &c, entered in the enclosed list are still left in charge of the Store Keeper.

There is no probability of the Mint stores being turned to account again. The remarks made in the list, show almost all the items "Repairable", in other words they are deteriorated and useless, and the Committee recommend that the whole should be sold off, altho they believe that not more than the value of old iron will be realised.

Approved

List of Machinery &c belonging to the late Mint in the custody of the Store Keeper of Machinery.

9/14-55
2/5

Description	Number	Quantity	Remarks
Crabs Double Purchase	1	2	Repairable
Crane 2 tons	1	1	Do
Crane Small	1	1	Do
Crane for lifting Crucibles	1	1	Do
Engines 15 H.P. Combined in One	2	2	Do
Boiler for 12 H.P. Vertical Engine	1	1	Do
Engine 12 H.P. with boiler	1	1	Engine Repairable, Boiler beyond repair
Do 6 H.P. Vertical Subaltern	1	1	Repairable
Do 6 " " "	1	1	Unserviceable
Do 6 " " "	1	1	Repairable
Fan Blower Patent	1	1	Unserviceable
Fly wheel Spare	6	6	Do
Lathes &c. turning 6 feet	2	2	Repairable
Do " " 8 "	1	1	Do
Do " " 9 "	2	2	Do
Do " " 10 "	1	1	Do
Do " " 12 "	1	1	Do
Do " " 14 "	1	1	Do
Do Woodwork Small	2	2	Do
Do Saw cutting 12 feet bed with 5 feet bed attached	1	1	Do
Machines for sorting with 40 beams for 1/2 rupees	1	1	Do
Do Wheel tooth cutting	1	1	Do
Do Drilling 6 feet	1	1	Do
Do Laminating	5	5	Unserviceable
Do Marking	2	2	Repairable

Description	Number	Quantity	Remarks
Machines Planing 12 ft	1	2	Repairable
" " 3 "	1	1	"
" Polishing vice	1	1	"
" Punching & Shearing	1	1	"
Saws Circular & sizes	21	21	"
Machines Platform weighing, to weigh one ton	1	1	"
Presses vice multiplying	3	3	"
Tables Cutting L. I. fly	24	24	"
" " hand	3	3	"
" " brass hand	9	9	"
Bucket Foundry large and	1	1	"
Shafts of sizes W. I.	about 8 ft	100	"
Pulleys of sizes for shafting	1	1	"
Brackets L. I.	64	64	"
Couplings L. I.	64	64	"
Ladders Wooden square	11	11	"
Rands Cart	1	1	"
Saw Circular Saw	1	1	"
"	1	1	"

9/19/28
128

any alteration and the Committee recommend that the items stand as at present until used, when they should be charged at their full book value to the work concerned.

In this Division as in Tanjore the amount of stock necessary to be permanently retained is under consideration. For the present the Committee consider that a limit of Rs. 3,000 may be fixed.

In the Trichinopoly South Arcot and Tanjore Divisions there is now no stock, nor does there appear any necessity for maintaining any

Famine Tools.

42. In many Districts there are large number of tools that were obtained for famine relief works; but that will not be required collectively again, until there is another time of

Chickadee nest
Set March 28

D. H. Fair Major U2

John Pennycuik
Major
Rt

11th March/8.

San Jose Division

40. In this Division there is stock to the nominal value of Rs 17,900, out of which it is proposed to retain nearly the whole, at its full book value, for use on works. A few articles - aggregating in value, not more than Rs 50, will be sold, and the trifling loss on these items may, the Committee consider, be debited to Profit and Loss.

In this Division, it is necessary to maintain a considerable amount of stock in the shape of Reserve Store for use on ancient aprouis ;

1183

the exact amount necessary
to be thus retained is still
under consideration, but
for the present the Committee
recommend that the limit
of value be fixed at Rs.
12,000.

Degapatam Division

41. In this Division there
was on the first of October
1880 stock in hand to the
nominal value of Rs 3176-4-9,
and to an estimated actual
value of Rs 1532-8-8. The
Supg Engineer proposes to
retain the whole of this for
use on the works, but to
reduce its value from the
former to the latter sum;
as however the difference
would necessarily be charged
to the works in question, it
seems unnecessary to make
any

N. 3411.

Supg. Engrs Office
Madras. 9/12/81
Chepauk 11th March/81.

From
The Superintending Engineer
Madr.

To
The Chief Engineer

MD
Madras.

With reference to G.O. N. 2276M.
dated 1st October 1880, I have the honor
to forward the report of the Committee
upon the superfluous stock in the
MD Divisions.

2. The papers sent to me are returned,
together with other documents, that
have been handed over for the Com-
mittee's consideration.

I have the honor to be
Sir,

Your most obedt servant
A. S. S. S. S. S.
Superintending Engineer

J.W.C. No 1585

From
The Supy. Engineer
M. S. S. S.

To
The Chief Engr.
M.D.
Madras

Of 11th March 1881.

Recd. 12th
N. 3411

Superfluous Stock
in the M.D. Divisions

Forwarding the
report of the Committee
upon the —

N. 6. E.W.

P. 86

9/14-15
1881

Memorandum on Committee's Report
on Superfluous stock in the Divisions.

Para 6. Kellore Division — The cast iron Casingulak
posts would be of very small value
if sent to Madras as old iron. There are
not very many and though Casingulaks
are but seldom used now a days, these
posts might be utilized for

- (1) small regulating works in the delta
(2) the grooves of tank & distribution
sluices.

This will be much better than treating
them as old cast iron.

Para 8. 2. Damagudim — All the useless
stores and materials should be
sold. There is no market there for
metals &c of value and I think
therefore the valuable articles should
be transferred elsewhere at prices
not in excess of current market
rates. There was a small planing
machine which is wanted at
the Bezvada shops and there was
a vertical boiler and engine
said to be in good order which
can be utilized either in the

Godavari

See summary
in report

987
Godavari or Kistna. There are also many cranes. What is wanted is a descriptive priced list. At Sitanaagram an indifferent crane has been put up since last year for the stop gate of the head lock. It would have been better and cheaper to have got a crane from Damagudem.

3. Floating Plant. Godavari - This Para 9 plant is not in excess and whenever any vessel becomes unserviceable the necessary orders are issued by Government on receipt of a report to that effect.

4. Steamer Prince - I think the Para 10 Committee's recommendations at the end of this paragraph are based on a misapprehension. The Prince has never belonged to the Delta but was procured for the navigation of the river like the other Upper Godavari Steamers. It should be sold if possible, but the proceeds will not belong to the Delta.

Para 11.

988
5. Dowlaisheram Workshop - The probability is that the stock is generally is not excessive but that an annual clearance sale is needed to get rid of things which are useless and which are borne on the lists at a value which does not represent the true value. A considerable stock of timber is necessary and of stores also because the first is procurable only at certain seasons and the latter include very many descriptions. If the officer in charge have judgment the stores long in hand should be of small value. The interest on 10 or 15 thousand Rupees is small but the inconvenience of having to wait for material which is wanted for a special purpose is great.

Para 12. 6. No remarks required.

Para 13. 7. Godavari Eastern Delta Division - The only stock needed in this Division is that of building materials viz stone of sorts, lime & limestone. I see no reason why there should be any

1889
any metals. Those not wanted for the shops should be sold if possible. No doubt the figures as shown are the result of the wholesale transference of stores from the Upper Godavari. The value of building materials in hand should depend upon the annual demand. This Division supplies materials to nearly the whole of the Delta.

8. Kistna Eastern Delta Division - I Paras 14 to 16
agree generally with the Committee's recommendations. It is probable that there are many things which are either not wanted at all or are in quantities in excess of requirements. It would be well to send any things to Madras which are likely to be readily saleable there or which the P.W. workshops and Stores would be willing to take. For the rest I should be inclined to work down the stock by avoiding further purchase as much as possible. I endeavoured recently to impress on the local officers the necessity for turning

2
to account the material available. This has not been done to anything like the extent desirable. 9/14/17 12/3

It would be a waste of money to send the Stone's valve to Madras or any where until it is wanted for a definite work. It was intended for a supplemental head sluice for the Kistna Western Delta Main Canal and it may yet be wanted for that and if not it is more likely to be utilized for some other head sluice or surplus sluice in the Kistna than elsewhere.

Para 40.

9. I am entirely unable to agree with the Committee's recommendation that the Reserve of stone, cubes &c in the Tanjore Division should be limited to 12,000 Rupas. There are scores of most important works such as Anicuts, regulators, surplus works &c and there is no stone to be had within many miles of them. Cubes are used in some places instead of stone

and

and must of course be made at the proper season. Stone also where procurable at all can be carted only at certain seasons. I consider the present stock valued at Rs 177900 much too small. The reserve at each work should be a percentage of the contents of the aprons, the percentage in each case being fixed with reference to the circumstances of the work. At my inspections of the last 2 years I found ^{that} some of the outer aprons had almost entirely disappeared and that there was no material available for their replacement. At the lower Anicut on the Coleroon there were no cubes in stock though a large quantity was needed for immediate use. I think it probable that 40 or 50 thousand ^{cubes} would be a reasonable reserve to maintain in this Division.

10. Negapatam Division - The works

for which a reserve of stone or cubes is needed are much fewer than in Tanjore and of smaller size. The value of the reserve will certainly have to be increased.

9/10-15
125

Chepauk
17 March
1881.

Whitburn Colouel. R.E.
Chief Engineer for Suez.

J.

The Chief Engineer P.W.D.

Para 41

17/3

P.W.C. No 1715.

Sub: a.m. 1880 & file.

Received 18. March 1881

30-2-200

30-9-90

914-15
128

P.W.C. No 1715 April 1st

E 1

2914

Before circulating
this report of the
Stores Committee to
the order of Government
it is necessary that
you should record your
opinion as to the
several proposals con-
tained in paras 8, 9,
10, 11, 12, 13, 14, 15, 40,
and 41.

As the Reserves of
1880-81 may be
affected by the amounts
proposed to be written
off to profit & loss
it is very desirable that
action should be passed
with the least practicable
delay. I should therefore
be glad if you would
let me have the report

again possibly

Altho

15.3.87

Rev.

I return the Report
with a view

*No. 6-E.W. d/17.3.87.

Dec. 17/3/87
S.S.

No

The only remark I
have to make is that
the whole of the Committee's
proceedings have been
based on the belief,
arrived at from what
they consider sufficient
evidence, that the
vote in the majority of
the Divisions is more
than in favour, and

that experience shows
that large quantities of
it are never likely to
be obtained, and that
it is better to get rid
of such articles at
any sacrifice of nominal
value than to keep
them and waste space
money and time in
their custody.

With regard to the
of Col. Smith's note
I personally proposed a
limit of Rs 2,000 for
the Tuzig Division
but was outvoted.

It is too late now
to take any action in
the current year -

S 18/3

Further observations

*h. b. E. W. d.

12
The
same to
the whole
proceedings
based on
arrived at
they come
evidence,
stood in
the Divis
them is so

Special
Hon W W. Under Secretary
9/14/11
9/14/11
128 In order
Under J.C. 2276 W
P. 1st October 1880 a
committee consisting
of Col. Prendergast - &
Lieut. Trill & Perryman
was appointed to
look into the whole
state of the Department
the condition of the
works, shops, floating
plant, gas works
stores, &c. so as to
get rid of all useless
material, and enable
the Department to
make a fresh start
with such defined
rules in future guidance
as would prevent a
repetition of the
past avoidable.

State of matters
that has hitherto
existed

In most respects
I hope the Govt. will
find that their
expectations have
been entirely met,
and that while
exercising all reasonable
discretion in the disposal
of useless stores &
machinery the Govt.
should in some in-
stances respect ex-
perience and sensible
relief, and be in
fact entirely free
of all incumbrances
of this class within
about $1\frac{1}{2}$ years from
this date

It is difficult
at this moment

to estimate ^{any}
precisely the financial
results of these orders
but a close watch will
be maintained at this
and the results reported
from time to time to
Govt.

I confess I am not
satisfied with the
condition of the Prindley
workshops which it
seems to me has to
some extent proved
itself to be rather a
white elephant

In my view it
would be quite wrong
to bolster it up by
compelling all Govt.
departments to deal with
it that it should
prevent the beginning
of private enterprise
in this direction - and
now especially so
as with the plant &
machinery coming into

In so many Gold
mining Companies
there ought if these were
state successful to be
room in shops of the same
character as have for some
years been existing at
Calcutta & Bombay —
entirely private under-
takings.

The order however now
being passed if approved
of by the H.C. will at
least have the effect of
placing the working of
the shops on a more
wholesome footing than
hitherto and it is unnecessary
for me to say more at
present.

In enquiring it will
be observed has extended
to the Gas works & stores
of the Fort, the whole
State of matters in
connection with which

I venture to think requires
ventilation — Some decision it appears to
me should be come to as to whether the
works should be brought into action or
whether the whole plant and works should
not be disposed of as a useless encumbrance.

31/3/81 P.H.

A
C

No 914W

sent
recd 96
9/19/81
130

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 4th April 81

Read the following:—

From the Chief Engineer 1st Circle } H.C. No 3411 d/11 March 1881.

Chief Engineer 1st Circle } No. 6820 d/15th March 1881.

The Government consider
the following modifications of
the Committee's proposals desir-
able.

Cuddapah Division

Para 4

The doors and windows pro-
vided for the Boopapatnam
Cutcherry will be retained till
the 1st August 1881, if no allot-
ment for the work is made by
that date, they will be sold as
proposed. The loss on the rate
of materials prepared for the
hundial Cutcherry will be de-
ducted as proposed if sanction to
the estimate is given by the 1st
August, if not, the loss will be
debited to "profit and loss."

Paras 5 and 7

Kallur Division

Para 6

The iron Calingula posts should
be retained for use if required
on minor irrigation works.

The cast iron truck wheels will
be sent to Madras for disposal.

Cuddapah Division.

Upper Godavary

Para-7

Para-8

The proposals should be modified in accordance with para 2 of the Memorandum of the Chief Engineer for Irrigation. If the disposal of these stores be incomplete at the close of 1881/82 outright sale of the remainder will be resorted to in the following year.

Godavary - Floating Plant.

Para-9

The "Little Bell" and "Fawn" will be sold outright early in 1882/83 if not previously disposed of.

The proceeds of the sale of the "Prince" will be credited to "Provincial" and not to "Productive Public Works".

Para-10

Dowlaiswarum Workshop

Para-11

A large stock of timber is no doubt essential but every effort must be made to get rid of useless articles and keep down the value of stores by judicious sales as nearly as may be possible to the sum named by the Committee.

Godavary Eastern Division

Para-13

Re metals not required in the shops should be retained, arrangements being made for the sale

of the remainder during the current year. Stone, lime and limestone will be alone retained, in such quantity as may be deemed essential by the Superintendent of works.

914/35
131

Para-16.

Kistna Eastern Division

The state of the stores equilibrium valve should be retained at Bezawada. The stock should be brought down to the limit of Rs 48,000 by the end of the current year if possible, and by the 1st August 1882 at furthest.

Para-23

Presidency Stores

The result of the action now proposed will be reported on at the end of the current year.

Para-24.

Consulting Architect

It is greatly to be regretted that the proper price for the material turned out was not charged in the first instance to the works supplied; there is no alternative to the disposal recommended by the Committee.

Para-28.

Presidency Workshops

A special report will be submitted at the end of September 1881 on the result of the action proposed in this paragraph.

^{undue}
The ~~sum~~ ^{and} apparently
unauthorized increase of
establishment is very un-
satisfactory and the General
Superintendent will furnish
early explanation on this sub-
-ject and show at once how
the establishment can be re-
-duced to at least the previous
average.

Para-31

1997

The books proposed by the
Committee will be at once
opened and kept posted to
date.

Para-33

Buckingham Canal.
The Superintendent of works
will be careful not to dispose
of tools that may possibly be
useful in the completion of
the works of the Canal.

Para-34

Presidency Gas works.
This paragraph will be refer-
-red for consideration in the
military department.

Para-36

Pier Stores

Para-37

These stores will be handed
over at once to the Master
Attendant.

Tanjore Division

Para-40

The Superintending Engineer
will report at an early date

Para-42

3. All sales made
under the instructions
now given should be
extensively advertised in
local papers, and
special care should
be taken to ensure
information on the
subject reaching the
mining districts where
there may probably be
a demand for some
of the surplus stores.

with reference to para 9 of the
memo of the Chief Engineer for
Irrigation, after which final
orders will be passed as to the
future limit for stock in this
Division.

Famine tools.

This paragraph will be refer-
-red to the Government of India
for consideration.

2 Except in so far as they are
modified by the foregoing re-
-marks the Committee's recom-
-mendations are accepted in
their entirety and will be car-
-ried out without delay, and
the Government desire to im-
-press upon officers of all ranks
the absolute necessity for avoid-
-ing undue inflation of the
stock accounts either by over
manufacture or by insufficient
debts to works.

The Committee appointed
in G.O. No. 2276 of 1904/05 having
brought to a satisfactory con-
-clusion the laborious enquiry
with which they were charged
the Government desire to place
on record their appreciation

of the thorough and satisfactory
manner in which they have
discharged the duty assigned
to them.

899

L
31/3
Pttt

31/3/87

H.C. No 915 Wd/4 April/87

Copy of the above
forwarded to the Govt.
of India -

to Supply Engrs ✓

Supr of Works ✓

Ch. Engr for Brr ✓

Comm. Architect to Govt ✓

Genl Engr R.W. Stores &c ✓

Genl P. W. ✓

Chief Dept ✓

Marine Dept ✓

Desd

20-4-87

H.C. C. 31.3.87

30-9-90

30-9-90

11-6-13

Govt. of (1881) Madras
PUBLIC WORKS.

To

Dated

Issued

Recd.

Encl.

O. O., 4 April 1881, No. 914

Nos. 24-24

Superfluous Stock of the
P. W. Dept &c Orders a pro-
ceeds of the Committee of
investigation and
report upon the —

Superfluous Stock of the
P. W. Dept &c

175
18

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5/2

5-4-81