Re 2869 Way 12-10-83

11.

5-10-83.

Supd. Engineer's Office 4th Circle,
13th August 1883,

No. 338
S.C.

From,

The Superintending Engineer,
Fourth Circle.

To,

The Collector
of Salem

Sir,

When at Salem on Saturday last, I observed that certain alterations are in progress to the enclosure of the Taluq Kutcherry. Part of the compound wall has been removed, and pillars substituted and it is apparently intended to put up horizontal wooden bars between the pillars. I presume this work has been specially sanctioned by Government from the grant for minor new works but no copy of the order has apparently been furnished to me and I shall be obliged by

by your letting me have the number and date in order that I may apply for a copy. The Cutcherry is on the List of buildings of this Depart=ment, and I think that in the case of all such buildings this Department should be kept in=formed of all work done to them which is not of the nature of bona fide repairs, and properly chargeable to the grant for repairs.

I have &

/Signed/ J Beatty Col: R.E
Supy: Engineer IV circle

/True copy/
J. Beatty. Colonel R.E.
Supg Engineer, 4 Circle.

Salem Collector's office
No. 2520 24th August 1883.

From,

Lewis Moore
Ag: Collector & District Magistrate
of Salem.

To,

The Superintending Engineer
4th Circle

Sir,

In reply to your letter No. 338/SL dated 13th Instant I have the honor to state that the alteration to the Compound wall of the Salem Taluq Cutcherry was sanc=tioned by the Collector as a petty cons=truction and repair work, from the funds placed at the Collector's disposal.

I have &

/Signed/ Lewis Moore
Ag: Collector

/True copy/
J. Beatty. Colonel R.E
Supg Engineer 4th Circle

Extract of
Coll. J Beatty
4th Circle

Notes of Inspection by
M.E. Superintending Engineer
for the month of August/83.

11th August Salem
Tahsildar's Cutchery

The Revenue Department has pulled down the compound wall in front of this building, and is substituting for it pillars and wooden bars; which I do not consider an improvement. This must, I presume, be going on under a Special sanction of Government but no such order has been communicated to this office. Have written for information on the point to the Collector as I Consider

Chief Engineer's Remarks.

3. Certainly. Further information will be awaited.

consider this Department should be kept informed of all additions and improvements to public buildings on its lists.

x x x

Signed J. J Beatty Coll U.S.
Supg. Engineer
22 August 83. 4th Circle.

J. Beatty - Colonel U.S.
Supg Engineer
4th Circle.

MEMORANDUM No. 2021, DATED 22ND JUNE 1883.

RULES REGARDING BUILDING WORKS IN THE REVENUE, MAGISTERIAL, LOCAL FUND, & MUNICIPAL DEPARTMENTS, SALEM DISTRICT.

1. Certain building rules have been drawn up, which the Collector desires may be observed for the sake of promoting uniformity and efficiency of work. Designs and estimates already sanctioned can be altered to correspond.

General.

2. Exterior surfaces of buildings and compound walls will be whitewashed. Coloured washes will not be used.

3. Doors and windows, and all wood work to be seen from outside will be painted green (see Rule 11). As exception to this will be huts, sheds, toll houses and other buildings costing when new less than Rs. 500-0-0; in which the wood work can be tarred.

4. Gates and similar outside wood work in compounds may be tarred, but gates are better painted.

5. Tiled roofs (white chunam borders, horizontal and vertical) should be given where possible, in preference to thatch.

6. Blank walls, end or side, should be avoided as unsightly. They can be broken by windows with weather-board, by continuation of roof on brackets, by pent-roof ending in place of square gable, by pandauls (see Rule 20), or by other similar devices.

7. Boundaries should be marked where possible by palisading on the Salem pattern. Where this is too costly, use live "Kiluvai" fence. Palisading is preferable in most cases to compound walls.

Painting.

8. The mixture should be about the consistency of cream. If too thick strain through canvas or a sieve. With thick paint work has a cloudy appearance.

9. Before painting new work the work must be cleaned with sand paper or pummice stone and all projections must be carefully removed. Knots will be covered first with hot size (glue boiled down and strained). If there are two or three coats the work must be rubbed down with pummice stone quite smooth after each coat except the last.

10. In painting old work the wood should first be well washed with soap, or if smokey or greasy with lime water. When dry it should be rubbed down with sand paper. Then paint.

11. Green silicate paint is recommended and will on application be supplied from Salem.

12. Silicate paint as sold must be mixed with the following ingredients to thin it down:—

1st Coat—7 parts raw linseed oil, one part turpentine.
2nd Coat—15 parts pale drying oil, one part do.

13. Of paint thinned and ready for use 1 gallon or 14 lbs. raw paint will coat once 400 sup. feet. Thus to paint 400 sup. feet twice the order would be:—

Green paint 14+7=21	lb.
Raw linseed oil	7 pints.
Pale drying oil	7½ do.
Turpentine	1½ do.

14. To prevent mistake let sup. feet be mentioned when ordering paint, oil, &c.

Varnishes.

15. Varnishes possess the power of drying rapidly and are used the same as paint. Wood oil is the principal varnish. It can be boiled with dammer to give polish, but this is not to be done when the varnish is for an outside surface.

Tarring.

16. Store rooms, urinals and other buildings not used as habitations should have the walls tarred 5 feet high inside and outside. Urinal floors should be tarred throughout.

17. 1 gallon tar will coat once 100 sup. feet. It should be used quite hot.

Roofing.

18. The slope for a tiled roof should be made uniform by giving a rise of $\frac{1}{3}$ of span. Thus a room 15 feet broad will have ridge 5 feet higher than the walls. A variety of slopes is objectionable and causes leakage and rotten timbers.

19. The slope for thatch should be greater.

20. From above remarks it appears that the correct way to arrange a roof is to begin by allowing a clear height say of 7 feet above ground for pandaul, then run up roof to uniform slope as stated. It will be as well always to allow a basement about two feet high, or a pandaul of correct slope cannot be got.

21. In choosing jungle-wood rafters be careful to avoid "Velange" and other so called sweet "sweet" woods which get worm eaten very quickly. It will be safe always to allow a few months seasoning for newly cut jungle-wood.

22. Pan tiles are preferable to pot tiles where procurable.

23. Mud-walls should be tiled with a coping where practicable for protection against the weather.

24. Thatching must be not less than 6 inches thick (4 inches of coarse grass and 2 inches of fine) and should be carefully tied down. The whole should be laid over good bamboo matting where practicable; if not over cocoanut "keiths".

Flooring.

25. Brick on edge flooring is to be preferred to the ordinary concrete jelly, which is easily broken up by the feet.

26. The floor of urinals should slope 1 in 12.

Boundaries.

27. The Salem palisading (see Rule 7) is made of pillars of brick in mud plastered, 10 feet apart from centre to centre, with two cross beams of jungle wood. Design can be had from the Huzur office.

28. "Kiluvai" fencing is preferable to aloes.

Foundations.

29. Foundations are made in rock, firm earth, gravel, or clay.

30. When making foundations on rock remove all loose and decayed stone and make as level as possible.

31. For foundation in earth, a foundation trench of about two feet deep should be neatly cut. If the ground slopes much, level steps may be cut so as to keep to an average of about two feet of cutting.

32. When hollows or old wells are met with they must be filled in with dry rubbish.

Masonry.

33. Retaining walls and revetments of all sorts should have a batter of 1 in 8 in front, and should not be less than one foot thick at top. The thickness at bottom must be not less than $\frac{1}{3}$ of height.

Pucka Brick Work.

34. The bonding or overlapping of bricks is imperative. Angles and joints of cross wall are frequently seen having no connection with the walls they meet. Before work is passed, such corners and a few places here and there should be raked out to ascertain if there is any bond to hold the walls together.

Arches.

35. In arches the bricks will be laid on edge, the thickness of the ring being the breadth of the bricks.

36. The arches over doors and windows should be splayed out broad on the inner side towards the room as also the walls on either side of door way thus enabling the door to be moved far back when opened.

Rates.

37. The following are approximate rates in this District :—

Particulars	Per	Rate RS. A. P.
Palisading Brick in mud pillars 10 feet apart ...	Running yard ...	1 12 0
Mud walling	Cubic yard ...	0 4 0
" " coped with tiles	Running foot ...	0 3 0
Kiluvai fencing	Running yard ...	0 2 0
Aloe fencing	" " ...	0 1 0
" " on 2 feet bank	" " ...	0 2 0
Brick in mud	Cubic yard	2 8 0
Stone in mud	Do. ...	1 8 0
Sundried brick in mud	Do. ...	1 4 0
Brick in Chunam	Do. ...	5 0 0
Thatch roofing complete	Square 100 feet ...	10 0 0
Tiled roofing Bamboos and Pantiles	Do. ...	5 0 0
" " Rafters and reapers	Do. ...	7 0 0
" " Flat and Pantiles	Do. ...	20 0 0
Jungle wood wrought and put up	Cubic feet ...	2 8 0
Teak wood " "	Do. ...	4 0 0
Flooring Chunam Jelly	100 Square feet ...	3 0 0
Brick on edge	" " ...	7 0 0
Tarring	" " ...	1 0 0
Painting one coat	" " ...	1 8 0
Do. two coats	" " ...	2 8 0
Varnishing (wood oil)	" " ...	2 0 0
Mud plastering	" " ...	0 4 0
White washing	" " ...	0 2 6
Chunam plastering	" " ...	2 8 0

Estimates.

38. As a preliminary to detailed estimates, design with rough estimate should first be approved.

C. D. MACLEANE,
Ag. Collector.

SALEM COLLECTOR'S OFFICE,
22nd June 1883.

To Sub-Collector 60 copies.
" Head Assistant Collector 30 copies.
" General Deputy Collector 30 copies.
" District Works Engineer 100 copies.
" Vice-President, Hosur 20 copies.
" Tahsildar's 50 each.
" Deputy Tahsildar's 15 each.
" Forest Subordinates 10 each.
" Managers of estates 10 each.

Supg. Engineer's Office 4th Circle,
Coimbatore, 20th Sept. 1883.

No. 397

From,

The Superintending Engineer,
Fourth Circle.

To,

The Chief Engineer
P. W. Department.

Sir,

Enclosures 4
1 Rules of Building
1 Copy of Letter No. 398 of 13th augt. 83 from Cr. to Collector
1 Copy of letter No. 2520 of 24th augt. 183 from Collector of Salem to Supg. Engineer
1 Extract from the Notes of Inspection.

With reference to the accompanying Extract from my Notes of Inspection of the 11th August 1883, and your remarks thereon, I have the honor to forward herewith copies of my letter to the Collector and his reply; also a printed copy of the Collector's Building Rules.

2 If the Collector's proceedings had reference only to Local Fund and Municipal Building Works, I should not have presumed to interfere in any way, or to express an opinion uninvited; but the objectionable alterations affect a building on the list of the P. W. Department

† Vide No 321 E 9/9/83

Department, and as the Collector has proceeded to carry out the alteration without reference to Government, or to this Department, I am apprehensive that he may, as funds are available, proceed to disimprove other buildings on our list in the same manner, such as the Collector's Cutcherry, the Collector's Bungalow &c which are provided with compound walls.

3 In the case of the Yahsildar's Cutcherry at Salem there was a compound wall of about 4½ feet high. This wall was not too close to the building and was not in my opinion in any way objectionable. If it were considered too high it might have been cut down 6 inches or a foot. But the substitution of pillars at 8½ feet apart with bars between, of what is called the Salem pattern, is not in my opinion an improvement. The wall formed an efficient fence excluding cattle and interlopers, and requiring a minimum of repairs, whereas the bars will need attention to keep them in order, and they will afford easy means of access to natives living in the neighbourhood, who will doubtless convert the compound into a latrine.

4 My opinion is that when Collectors propose to make alterations to buildings on the P. W. List, this Department should be allowed a voice in the matter.

× Please see G. O. No. 647 W of 11th March 1881

I have the honor to be
Sir
Your most obt. servant

L. Beatty - Colonel RE
Supg: Engineer IV circle

To W. for orders.

The Collector of Salem has altered compound wall of Salem Taluk Cutchery, or rather pulled it down & erected instead a palisading, without reference to Subs: hys. To this proceeding Col: Healty has raised objection, the building being on the P.W. list. I certainly think Public buildings should not be altered without reference to the S.E. who is responsible generally for them, & in this case I agree with S.E. that the work can hardly be considered an improvement. On the other hand Collector may perhaps say that the compound wall is hardly part of the building, & that with reference to il Municipal regulations it. had to be considered.

Cy
22/9.

Eo. 647. W 11.3.82
& 456. W 2.2.82

From The Supt. Engineer, Fourth Circle.

No 2869/W dy 12-10-83

Dated 20th Septr 83.
Descp: Do.

By 21 — 9 — 83.

No 397

Enc: 4 B.

Taluq Cutchery, Salem:—

States that he should not have interfered with the alteration made by the Collector to the ——; but for the building being borne on the P.W. List.

22/9 Cy 28/9 K 8/10
with 22/9 Mr W 11/10

No 2869 W P.W. Dept.

Proceedings of the Madras Government
Under date the 12th Octr 1883.
Read the following:—

From The Supg. Engr. Fourth Circle (No. No. 397 of 20th Septr 1883)

The attention of the Collector is invited to

× Go. 647 W of 11th March 1881. where it is laid down

The Government has ~~already~~ × that alterations to public buildings should not be made without prior reference to the officers of the Public Works Department. The action of the Collector in this case was therefore ultra vires and should not be repeated.

Decd 12/10

To The S.E. 4th Circle
" Revenue Dept.

(Revenue Seal for countermarks)